

**SISTEM INFORMASI PENDATAAN KARYAWAN KELAPA SAWIT
(STUDI KASUS : KUD SEDYO MULYO)**

ABSTRAK

Tujuan utama dari proposal ini untuk membantu KUD Sedyo Mulyo dalam mengelola data karyawannya dengan lebih efisien dan efektif. Sistem Informasi Pendataan Karyawan Kelapa Sawit harus dikembangkan dan diimplementasikan. Perusahaan perkebunan kelapa sawit KUD Sedyo Mulyo akan menjadi subjek studi kasus yang akan digunakan dalam penelitian ini. KUD Sedyo Mulyo saat ini menghadapi sejumlah masalah dalam pengelolaan data karyawan. Beberapa masalah termasuk pendataan, pemeliharaan, dan pemrosesan manual data karyawan. Akibatnya, sebuah sistem informasi yang dapat membantu mereka dalam mengatasi masalah ini diperlukan. Analisis kebutuhan, perancangan sistem, pengembangan perangkat lunak, dan implementasi adalah metodologi yang akan digunakan dalam penelitian ini. KUD Sedyo Mulyo akan menemukan kebutuhan khusus dalam hal ini untuk memulai tahap analisis kebutuhan pendata pekerja. Selanjutnya, perancangan sistem dilakukan. Ini termasuk membangun database, antarmuka pengguna, dan fitur sistem. Setelah perancangan sistem selesai, dilakukan pengembangan perangkat lunak yang memenuhi spesifikasi. Setelah itu, sistem akan dicoba di tempat produksi KUD Sedyo Mulyo dan diuji untuk memastikan bahwa itu berhasil. Penelitian ini diharapkan akan menghasilkan Sistem Informasi Pendataan Karyawan Kelapa Sawit yang akan membantu KUD Sedyo Mulyo mengelola data karyawannya dengan lebih efisien dan efektif. Dengan sistem ini, KUD Sedyo Mulyo diharapkan dapat melakukan pendataan, pemeliharaan, dan pemrosesan data secara otomatis, yang akan mengurangi kesalahan manusia dan mengoptimalkan penggunaan sumber daya.

Keyword: Sistem Informasi, Pendataan Karyawan, Kelapa Sawit, KUD Sedyo Mulyo, Efisiensi.

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KULON PROGO
21-05-2018

A handwritten signature in black ink, consisting of a large, stylized letter 'A' followed by several horizontal strokes.

MANUAL SISTEM
**SISTEM INFORMASI PENDATAAN KARYAWAN KELAPA
SAWIT**

(Studi Kasus : KUD Sedyo Mulyo)



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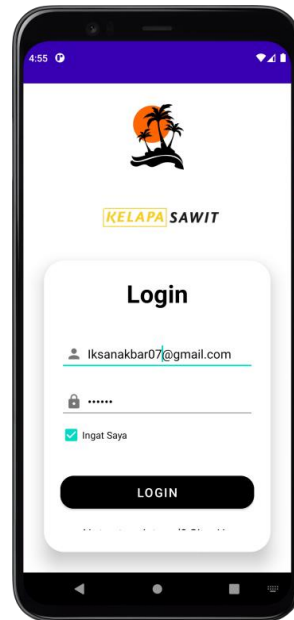
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1. TAMPILAN DAN KODE PROGRAM

1.1 Halaman Login

1.1.1. Tampilan Halaman Login



Gambar 1 - Login

1.1.2. Source Code Login

a. Login.java

```
public class LoginActivity extends AppCompatActivity {  
  
    EditText loginUsername, loginPassword;  
    Button loginButton;  
    TextView signupRedirectText;  
    CheckBox rememberMeCheckBox;  
  
    FirebaseAuth mAuth;  
    SharedPreferences sharedPreferences;  
  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_login);  
  
        mAuth = FirebaseAuth.getInstance();  
        sharedPreferences = getSharedPreferences("loginPrefs", MODE_PRIVATE);  
  
        loginUsername = findViewById(R.id.username);  
        loginPassword = findViewById(R.id.Password);  
    }  
}
```

```

signupRedirectText = findViewById(R.id.signupRedirectText);
loginButton = findViewById(R.id.login_button);
rememberMeCheckBox = findViewById(R.id.rememberMeCheckBox);

boolean rememberMe = sharedPreferences.getBoolean("rememberMe", false);
rememberMeCheckBox.setChecked(rememberMe);
if (rememberMe) {
    String savedUsername = sharedPreferences.getString("username", "");
    String savedPassword = sharedPreferences.getString("password", "");
    loginUsername.setText(savedUsername);
    loginPassword.setText(savedPassword);
}

// Cek apakah pengguna sudah masuk sebelumnya
FirebaseUser currentUser = mAuth.getCurrentUser();
if (currentUser != null) {
    // Pengguna sudah masuk, langsung redirect ke activity berikutnya (misalnya
DashboardActivity)
    redirectToDashboard();
}

loginButton.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        if (!validateUsername() || !validatePassword()) {
            return;
        } else {
            loginUser();
        }
    }
});

signupRedirectText.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent intent = new Intent(LoginActivity.this, SignupActivity.class);
        startActivity(intent);
    }
});

public Boolean validateUsername() {
    String val = loginUsername.getText().toString().trim();
    if (val.isEmpty()) {
        loginUsername.setError("Email tidak boleh kosong");
        return false;
    } else {
        loginUsername.setError(null);
        return true;
    }
}

```

```

}

public Boolean validatePassword() {
    String val = loginPassword.getText().toString().trim();
    if (val.isEmpty()) {
        loginPassword.setError("Password tidak boleh kosong");
        return false;
    } else {
        loginPassword.setError(null);
        return true;
    }
}

public void loginUser() {
    String email = loginUsername.getText().toString().trim();
    String password = loginPassword.getText().toString().trim();

    mAuth.signInWithEmailAndPassword(email, password)
        .addOnCompleteListener(this, new OnCompleteListener<AuthResult>() {
            @Override
            public void onComplete(@NonNull Task<AuthResult> task) {
                if (task.isSuccessful()) {
                    // Login berhasil, lanjutkan ke activity berikutnya (misalnya
DashboardActivity)
                    FirebaseUser user = mAuth.getCurrentUser();
                    Toast.makeText(LoginActivity.this, "Login berhasil!",
Toast.LENGTH_SHORT).show();
                    if (rememberMeCheckBox.isChecked()) {
                        saveLoginCredentials(email, password);
                    } else {
                        clearLoginCredentials();
                    }
                    redirectToDashboard();
                } else {
                    // Jika login gagal, tampilkan pesan kesalahan
                    Toast.makeText(LoginActivity.this, "Login gagal. Periksa kredensial
Anda.", Toast.LENGTH_SHORT).show();
                }
            }
        });
}

private void saveLoginCredentials(String email, String password) {
    SharedPreferences.Editor editor = sharedPreferences.edit();
    editor.putBoolean("rememberMe", true);
    editor.putString("username", email);
    editor.putString("password", password);
    editor.apply();
}

```

```

private void clearLoginCredentials() {
    SharedPreferences.Editor editor = sharedPreferences.edit();
    editor.putBoolean("rememberMe", false);
    editor.remove("username");
    editor.remove("password");
    editor.apply();
}

private void redirectToDashboard() {
    Intent intent = new Intent(LoginActivity.this, DashboardActivity.class);
    startActivity(intent);
    finish();
}
}

```

b. activity_login.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:gravity="center"
    android:background="@drawable/ic_launcher_foreground"
    tools:context=".LoginActivity">

    <ImageView
        android:id="@+id/Gambar"
        android:layout_width="253dp"
        android:layout_height="157dp"
        android:src="@drawable/logo"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.495"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.052" />

    <ImageView
        android:layout_width="351dp"
        android:layout_height="50dp"
        android:src="@drawable/logobaru"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.495"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"

```

```
app:layout_constraintVertical_bias="0.052" />
```

```
<androidx.cardview.widget.CardView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="30dp"
    app:cardCornerRadius="30dp"
    app:cardElevation="20dp">
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:layout_gravity="center_horizontal"
        android:padding="24dp">
        <TextView
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="Login"
            android:textSize="36sp"
            android:textAlignment="center"
            android:textStyle="bold"
            android:textColor="@color/black"/>
        <EditText
            android:layout_width="match_parent"
            android:layout_height="50dp"
            android:id="@+id/username"
            android:layout_marginTop="40dp"
            android:padding="8dp"
            android:hint="Email"
            android:drawableLeft="@drawable/username"
            android:drawablePadding="8dp"
            android:textColor="@color/black"/>
        <EditText
            android:layout_width="match_parent"
            android:layout_height="50dp"
            android:id="@+id/Password"
            android:layout_marginTop="20dp"
            android:padding="8dp"
            android:hint="Password"
            android:inputType="textPassword"
            android:drawableLeft="@drawable/password"
            android:drawablePadding="8dp"
            android:textColor="@color/black"/>

        <CheckBox
            android:id="@+id/rememberMeCheckBox"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Ingat Saya" />
```

```

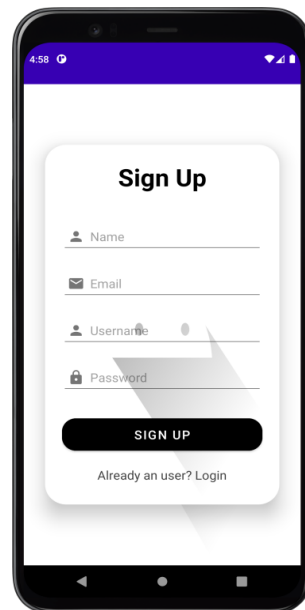
<Button
    android:layout_width="match_parent"
    android:layout_height="60dp"
    android:text="Login"
    android:id="@+id/login_button"
    android:textSize="18sp"
    android:layout_marginTop="30dp"
    android:backgroundTint="@color/black"
    app:cornerRadius = "20dp"/>

<TextView
    android:id="@+id/signupRedirectText"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:layout_marginTop="10dp"
    android:padding="8dp"
    android:text="Not yet registered? Sign Up"
    android:textColor="@color/black"
    android:textSize="18sp" />
</LinearLayout>
</androidx.cardview.widget.CardView>
</LinearLayout>

```

1.2 Halaman SignUp

1.2.1. Tampilan SignUp



Gambar 2 Halaman SignUp

1.2.2. Source Code Halaman SignUp

a. Signup.java

```
public class SignupActivity extends AppCompatActivity {

    EditText signupName, signupEmail, signupUsername, signupPassword;
    TextView loginRedirectText;
    Button signupButton;
    FirebaseDatabase database;
    DatabaseReference reference;
    FirebaseAuth mAuth = FirebaseAuth.getInstance();

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_signup);

        signupName = findViewById(R.id.signup_name);
        signupEmail = findViewById(R.id.signup_email);
        signupUsername = findViewById(R.id.signup_username);
        signupPassword = findViewById(R.id.signup_password);
        signupButton = findViewById(R.id.signup_button);
        loginRedirectText = findViewById(R.id.loginRedirectText);

        signupButton.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String name = signupName.getText().toString().trim();
                String email = signupEmail.getText().toString().trim();
                String username = signupUsername.getText().toString().trim();
                String password = signupPassword.getText().toString().trim();

                if (name.isEmpty() || email.isEmpty() || username.isEmpty() ||
password.isEmpty()) {
                    Toast.makeText(SignupActivity.this, "Inputan tidak boleh ada yang kosong",
Toast.LENGTH_SHORT).show();
                } else {
                    mAuth.createUserWithEmailAndPassword(email, password)
                        .addOnCompleteListener(SignupActivity.this, new
OnCompleteListener<AuthResult>() {
                            @Override
                            public void onComplete(@NonNull Task<AuthResult> task) {
                                if (task.isSuccessful()) {
                                    // Registrasi berhasil
                                    FirebaseUser user = mAuth.getCurrentUser();
                                    String userId = user.getUid();

                                    // Simpan informasi pengguna tambahan di Firebase Realtime
Database
```



```

android:layout_margin="30dp"
app:cardCornerRadius="30dp"
app:cardElevation="20dp">
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    android:layout_gravity="center_horizontal"
    android:padding="24dp"
    android:background="@drawable/ic_launcher_foreground">
<TextView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Sign Up"
    android:textSize="36sp"
    android:textAlignment="center"
    android:textStyle="bold"
    android:textColor="@color/black"/>
<EditText
    android:layout_width="match_parent"
    android:layout_height="50dp"
    android:id="@+id/signup_name"
    android:layout_marginTop="40dp"
    android:padding="8dp"
    android:hint="Name"
    android:drawableLeft="@drawable/username"
    android:drawablePadding="8dp"
    android:textColor="@color/black"/>
<EditText
    android:layout_width="match_parent"
    android:layout_height="50dp"
    android:id="@+id/signup_email"
    android:layout_marginTop="20dp"
    android:padding="8dp"
    android:hint="Email"
    android:drawableLeft="@drawable/email"
    android:drawablePadding="8dp"
    android:textColor="@color/black"/>
<EditText
    android:layout_width="match_parent"
    android:layout_height="50dp"
    android:id="@+id/signup_username"
    android:layout_marginTop="20dp"
    android:padding="8dp"
    android:hint="Username"
    android:drawableLeft="@drawable/username"
    android:drawablePadding="8dp"
    android:textColor="@color/black"/>
<EditText
    android:layout_width="match_parent"

```

```

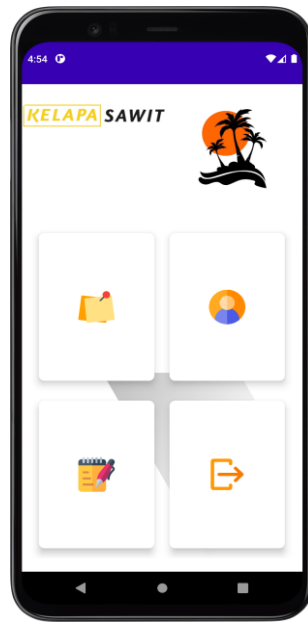
        android:layout_height="50dp"
        android:id="@+id/signup_password"
        android:layout_marginTop="20dp"
        android:padding="8dp"
        android:hint="Password"
        android:inputType="textPassword"
        android:drawableLeft="@drawable/password"
        android:drawablePadding="8dp"
        android:textColor="@color/black"/>

<Button
    android:layout_width="match_parent"
    android:layout_height="60dp"
    android:text="Sign Up"
    android:id="@+id/signup_button"
    android:textSize="18sp"
    android:layout_marginTop="30dp"
    android:backgroundTint="@color/black"
    app:cornerRadius = "20dp"/>
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/loginRedirectText"
    android:text="Already an user? Login"
    android:layout_gravity="center"
    android:padding="8dp"
    android:layout_marginTop="10dp"
    android:textColor="@color/cardview_dark_background"
    android:textSize="18sp"/>
</LinearLayout>
</androidx.cardview.widget.CardView>
</LinearLayout>

```

1.3 Halaman Dashboard

1.3.1. Tampilan Halaman Dashboard



Gambar 3 – Halaman Dashboard

1.3.2. Source Code Halaman Dashboard

a. dashboard.java

```
public class DashboardActivity extends AppCompatActivity {  
  
    CardView absensi, profil, data, logout;  
    FirebaseAuth mAuth;  
  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_dashboard);  
  
        absensi = findViewById(R.id.Btnhome);  
        profil = findViewById(R.id.BtnProfil);  
        data = findViewById(R.id.Btndata);  
        logout = findViewById(R.id.BtnLogout);  
        mAuth = FirebaseAuth.getInstance();  
  
        profil.setOnClickListener(new View.OnClickListener() {  
            @Override  
            public void onClick(View view) {  
                Intent intent = new Intent(DashboardActivity.this, ProfilActivity.class);  
                startActivity(intent);  
            }  
        });  
  
        absensi.setOnClickListener(new View.OnClickListener() {
```

```

@Override
public void onClick(View view) {
    Intent intent = new Intent(DashboardActivity.this, AbsensiActivity.class);
    startActivity(intent);
}
});

data.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View view) {
    Intent intent = new Intent(DashboardActivity.this, Menudata.class);
    startActivity(intent);
}
});

logout.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View view) {
    showLogoutConfirmationDialog();
}
});
}

private void showLogoutConfirmationDialog() {
    AlertDialog.Builder builder = new AlertDialog.Builder(this);
    builder.setTitle("Logout");
    builder.setMessage("Apakah Anda yakin ingin logout?");
    builder.setPositiveButton("Yaa", new DialogInterface.OnClickListener() {
        @Override
        public void onClick(DialogInterface dialogInterface, int i) {
            mAuth.signOut();
            Intent intent = new Intent(DashboardActivity.this, LoginActivity.class);
            startActivity(intent);
            finish();
        }
    });
    builder.setNegativeButton("Tidak", null);
    builder.show();
}
}
}

```

b. dashboard.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/ic_launcher_foreground"

```

```
tools:context=".DashboardActivity">
```

```
<ImageView
```

```
    android:layout_width="261dp"  
    android:layout_height="85dp"  
    android:layout_alignParentStart="true"  
    android:layout_alignParentEnd="true"  
    android:layout_marginStart="-27dp"  
    android:layout_marginEnd="177dp"  
    android:src="@drawable/logobaru"  
    app:layout_constraintBottom_toBottomOf="parent"  
    app:layout_constraintEnd_toEndOf="parent"  
    app:layout_constraintHorizontal_bias="0.495"  
    app:layout_constraintStart_toStartOf="parent"  
    app:layout_constraintTop_toTopOf="parent"  
    app:layout_constraintVertical_bias="0.052" />
```

```
<GridLayout
```

```
    android:layout_width="wrap_content"  
    android:layout_height="564dp"  
    android:layout_below="@id/imageView3"  
    android:layout_alignParentStart="true"  
    android:layout_alignParentEnd="true"  
    android:layout_alignParentBottom="true"  
    android:layout_marginStart="13dp"  
    android:layout_marginTop="15dp"  
    android:layout_marginEnd="14dp"  
    android:layout_marginBottom="20dp"  
    android:columnCount="2"  
    android:rowCount="3"  
    tools:ignore="Not2Sibling">
```

```
<androidx.cardview.widget.CardView
```

```
    android:id="@+id/Btnhome"  
    android:foreground="?attr/selectableItemBackground"  
    android:clickable="true"  
    android:layout_width="37dp"  
    android:layout_height="61dp"  
    android:layout_row="0"  
    android:layout_rowWeight="1"  
    android:layout_column="0"  
    android:layout_columnWeight="1"  
    android:layout_gravity="fill"  
    app:cardCornerRadius="8dp"  
    app:cardElevation="8dp"  
    app:cardUseCompatPadding="true">
```

```
<LinearLayout
```

```
    android:layout_width="51dp"
```

```
android:layout_height="65dp"
android:layout_gravity="center"
android:orientation="vertical">
```

```
<ImageView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_row="0"
    android:layout_column="0"
    android:src="@drawable/absensi"/>
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Home"
    android:textSize="15dp"/>
```

```
</LinearLayout>
```

```
</androidx.cardview.widget.CardView>
```

```
<androidx.cardview.widget.CardView
    android:foreground="?attr/selectableItemBackground"
    android:clickable="true"
    android:id="@+id/BtnProfil"
    android:layout_width="37dp"
    android:layout_height="61dp"
    android:layout_row="0"
    android:layout_rowWeight="1"
    android:layout_column="1"
    android:layout_columnWeight="1"
    android:layout_gravity="fill"
    app:cardCornerRadius="8dp"
    app:cardElevation="8dp"
    app:cardUseCompatPadding="true">
```

```
<LinearLayout
    android:layout_width="51dp"
    android:layout_height="65dp"
    android:layout_gravity="center"
    android:orientation="vertical">
```

```
<ImageView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_row="0"
    android:layout_column="0"
    android:src="@drawable/user"/>
```

```

</LinearLayout>

</androidx.cardview.widget.CardView>
<androidx.cardview.widget.CardView
    android:id="@+id/Btndata"
    android:foreground="?attr/selectableItemBackground"
    android:clickable="true"
    android:layout_width="37dp"
    android:layout_height="61dp"
    android:layout_row="0"
    android:layout_rowWeight="1"
    android:layout_columnWeight="1"
    android:layout_gravity="fill"
    app:cardCornerRadius="8dp"
    app:cardElevation="8dp"
    app:cardUseCompatPadding="true"
    tools:ignore="GridLayout">

    <LinearLayout
        android:layout_width="51dp"
        android:layout_height="65dp"
        android:layout_gravity="center"
        android:orientation="vertical">

        <ImageView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_row="0"
            android:layout_column="0"
            android:src="@drawable/notes"/>

    </LinearLayout>

</androidx.cardview.widget.CardView>
<androidx.cardview.widget.CardView
    android:id="@+id/BtnLogout"
    android:foreground="?attr/selectableItemBackground"
    android:clickable="true"
    android:layout_width="37dp"
    android:layout_height="61dp"
    android:layout_row="0"
    android:layout_rowWeight="1"
    android:layout_columnWeight="1"
    android:layout_gravity="fill"
    app:cardCornerRadius="8dp"
    app:cardElevation="8dp"
    app:cardUseCompatPadding="true"
    tools:ignore="GridLayout">

    <LinearLayout

```

```

        android:layout_width="51dp"
        android:layout_height="65dp"
        android:layout_gravity="center"
        android:orientation="vertical">

        <ImageView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_row="0"
            android:layout_column="0"
            android:src="@drawable/logout"/>

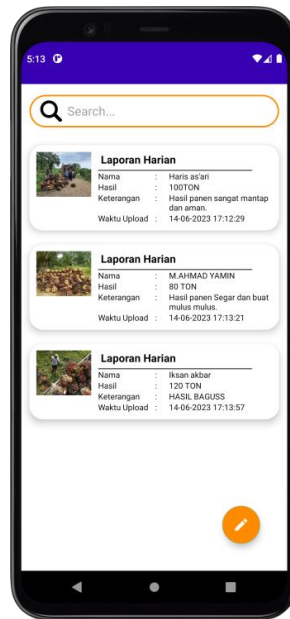
        </LinearLayout>
    </androidx.cardview.widget.CardView>
</GridLayout>

<ImageView
    android:id="@+id/imageView3"
    android:layout_width="250dp"
    android:layout_height="190dp"
    android:layout_alignParentStart="true"
    android:layout_alignParentEnd="true"
    android:layout_marginStart="179dp"
    android:layout_marginEnd="-18dp"
    android:src="@drawable/logo"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.495"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.052" />
</RelativeLayout>

```


1.4 Halaman Pendataan

1.4.1 Tampilan Halaman Pendataan



Gambar 4 – Halaman Pendataan

1.4.2 Source Code Halaman Pendataan

a. Data.java

```
public class Data extends AppCompatActivity {
    FloatingActionButton fab;
    DatabaseReference databaseReference;
    ValueEventListener eventListener;
    RecyclerView recyclerView;
    List<DataClass> dataList;
    MyAdapter adapter;
    SearchView searchView;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_data);

        recyclerView = findViewById(R.id.recyclerView);
        fab = findViewById(R.id.fab);
        searchView = findViewById(R.id.search);
        searchView.clearFocus();

        GridLayoutManager gridLayoutManager = new GridLayoutManager(Data.this, 1);
        recyclerView.setLayoutManager(gridLayoutManager);

        AlertDialog.Builder builder = new AlertDialog.Builder(Data.this);
```

```

builder.setCancelable(false);
builder.setView(R.layout.progress_layout);
AlertDialog dialog = builder.create();
dialog.show();

dataList = new ArrayList<>();
adapter = new MyAdapter(Data.this, dataList);
recyclerView.setAdapter(adapter);

FirebaseUser user = FirebaseAuth.getInstance().getCurrentUser();
if (user != null) {
    String uid = user.getUid();
    DatabaseReference =
FirebaseDatabase.getInstance().getReference("Data").child(uid);
    dialog.show();
    ValueEventListener = databaseReference.addValueEventListener(new
ValueEventListener() {
        @Override
        public void onDataChange(@NonNull DataSnapshot snapshot) {
            dataList.clear();
            for (DataSnapshot itemSnapshot : snapshot.getChildren()) {
                DataClass dataClass = itemSnapshot.getValue(DataClass.class);
                dataClass.setKey(itemSnapshot.getKey());
                dataList.add(dataClass);
            }
            adapter.notifyDataSetChanged();
            dialog.dismiss();
        }

        @Override
        public void onCancelled(@NonNull DatabaseError error) {
            dialog.dismiss();
        }
    });
} else {
    dialog.dismiss();
    // User not logged in, redirect to login activity or handle accordingly
}

searchView.setOnQueryTextListener(new SearchView.OnQueryTextListener() {
    @Override
    public boolean onQueryTextSubmit(String query) {
        return false;
    }

    @Override
    public boolean onQueryTextChange(String newText) {
        searchList(newText);
        return true;
    }
}

```

```

});

fab.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent intent = new Intent(Data.this, Upload.class);
        startActivity(intent);
    }
});
}

public void searchList(String text) {
    ArrayList<DataClass> searchList = new ArrayList<>();
    for (DataClass dataClass : dataList) {
        if (dataClass.getDataNama().toLowerCase().contains(text.toLowerCase())) {
            searchList.add(dataClass);
        }
    }
    adapter.searchDataList(searchList);
}
}
}

```

b. Activity_data.xml

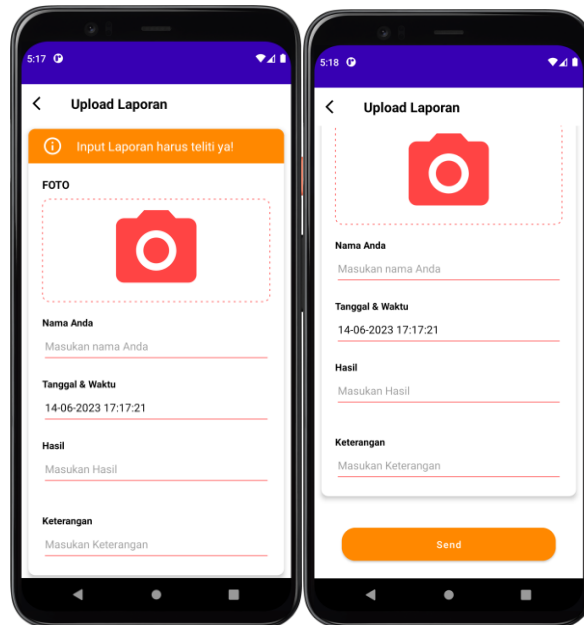
```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
  xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:app="http://schemas.android.com/apk/res-auto"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  tools:context=".DATALAPORAN.Data">
  <androidx.appcompat.widget.SearchView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="16dp"
    android:layout_marginStart="12dp"
    android:layout_marginEnd="12dp"
    android:id="@+id/search"
    app:iconifiedByDefault="false"
    app:searchHintIcon="@null"
    app:queryHint="Search..."
    android:focusable="false"
    app:closeIcon="@drawable/close"
    app:searchIcon="@drawable/serch"
    android:background="@drawable/lavender_border"/>

  <androidx.recyclerview.widget.RecyclerView
    android:id="@+id/recyclerView"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_alignParentTop="true"
    android:layout_marginTop="80dp"
    android:scrollbars="vertical" />

  <com.google.android.material.floatingactionbutton.FloatingActionButton
    android:id="@+id/fab"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentRight="true"
    android:layout_alignParentBottom="true"
    android:layout_marginStart="40dp"
    android:layout_marginTop="40dp"
    android:layout_marginEnd="40dp"
    android:layout_marginBottom="40dp"
    android:backgroundTint="@color/lavender"
    android:src="@drawable/edit"
    app:tint="@color/white" />
</RelativeLayout>
```


1.5 Halaman Upload Data

1.5.1 Tampilan Halaman Upload Data



Gambar 5 - Halaman Upload Data

1.5.2 Source Code Halaman Upload Data

a. Upload.java

```
package com.example.kelapasawit.DATALAPORAN;

import android.annotation.SuppressLint;
import android.app.Activity;
import android.app.AlertDialog;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.text.TextUtils;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.ImageView;
import android.widget.TextView;
import android.widget.Toast;

import androidx.activity.result.ActivityResult;
import androidx.activity.result.ActivityResultCallback;
import androidx.activity.result.ActivityResultLauncher;
import androidx.activity.result.contract.ActivityResultContracts;
import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;
```

```

import com.example.kelapasawit.R;
import com.google.android.gms.tasks.OnCompleteListener;
import com.google.android.gms.tasks.OnFailureListener;
import com.google.android.gms.tasks.OnSuccessListener;
import com.google.android.gms.tasks.Task;
import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.auth.FirebaseUser;
import com.google.firebase.database.FirebaseDatabase;
import com.google.firebase.storage.FirebaseStorage;
import com.google.firebase.storage.StorageReference;
import com.google.firebase.storage.UploadTask;

import java.text.SimpleDateFormat;
import java.util.Date;
import java.util.Locale;

public class Upload extends AppCompatActivity {
    ImageView uploadImage;
    Button saveButton;
    EditText uploadNama, uploadHasil, uploadKeterangan;
    TextView uploadTime;
    String imageURL;
    Uri uri;

    @SuppressWarnings("MissingInflatedId")
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_upload);

        uploadImage = findViewById(R.id.uploadImage);
        uploadNama = findViewById(R.id.uploadNama);
        uploadHasil = findViewById(R.id.uploadHasil);
        uploadKeterangan = findViewById(R.id.uploadKeterangan);
        uploadTime = findViewById(R.id.uploadTime);
        saveButton = findViewById(R.id.Kirim);

        ActivityResultLauncher<Intent> activityResultLauncher = registerForActivityResult(
            new ActivityResultContracts.StartActivityForResult(),
            new ActivityResultCallback<ActivityResult>() {
                @Override
                public void onActivityResult(ActivityResult result) {
                    if (result.getResultCode() == Activity.RESULT_OK) {
                        Intent data = result.getData();
                        uri = data.getData();
                        uploadImage.setImageURI(uri);
                    } else {
                        Toast.makeText(Upload.this, "No Image Selected",
                            Toast.LENGTH_SHORT).show();
                    }
                }
            }
        );
    }
}

```

```

        }
    }
};

uploadImage.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent photoPicker = new Intent(Intent.ACTION_PICK);
        photoPicker.setType("image/*");
        activityResultLauncher.launch(photoPicker);
    }
});

saveButton.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        if (validateInputs()) {
            saveData();
        }
    }
});

// Mendapatkan tanggal dan waktu saat ini
String currentDate = new SimpleDateFormat("dd-MM-yyyy HH:mm:ss",
Locale.getDefault()).format(new Date());
// Set nilai tanggal dan waktu pada TextView
uploadTime.setText(currentDate);
}

private boolean validateInputs() {
    String nama = uploadNama.getText().toString().trim();
    String hasil = uploadHasil.getText().toString().trim();
    String keterangan = uploadKeterangan.getText().toString().trim();

    if (TextUtils.isEmpty(nama)) {
        uploadNama.setError("Nama harus diisi");
        return false;
    }

    if (TextUtils.isEmpty(hasil)) {
        uploadHasil.setError("Hasil harus diisi");
        return false;
    }

    if (TextUtils.isEmpty(keterangan)) {
        uploadKeterangan.setError("Keterangan harus diisi");
        return false;
    }
}

```



```

    if (uri == null) {
        Toast.makeText(this, "Bukti foto harus diisi", Toast.LENGTH_SHORT).show();
        return false;
    }

    return true;
}

public void saveData() {
    StorageReference storageReference =
    FirebaseStorage.getInstance().getReference().child("image").child(uri.getLastPathSegment
    ());
    AlertDialog.Builder builder = new AlertDialog.Builder(Upload.this);
    builder.setCancelable(false);
    builder.setView(R.layout.progress_layout);
    AlertDialog dialog = builder.create();
    dialog.show();

    storageReference.putFile(uri).addOnSuccessListener(new
    OnSuccessListener<UploadTask.TaskSnapshot>() {
        @Override
        public void onSuccess(UploadTask.TaskSnapshot taskSnapshot) {
            Task<Uri> uriTask = taskSnapshot.getStorage().getDownloadUrl();
            while (!uriTask.isComplete());
            Uri urlImage = uriTask.getResult();
            imageUrl = urlImage.toString();
            uploadData();
            dialog.dismiss();
        }
    }).addOnFailureListener(new OnFailureListener() {
        @Override
        public void onFailure(@NonNull Exception e) {
            dialog.dismiss();
        }
    });
}

public void uploadData() {
    String nama = uploadNama.getText().toString().trim();
    String hasil = uploadHasil.getText().toString().trim();
    String keterangan = uploadKeterangan.getText().toString().trim();
    String dateTime = new SimpleDateFormat("dd-MM-yyyy HH:mm:ss",
    Locale.getDefault()).format(new Date());
    String uid = FirebaseAuth.getInstance().getCurrentUser().getUid();
    DataClass dataClass = new DataClass(nama, hasil, keterangan, imageUrl,
    dateTime);

    // Mengecek apakah pengguna sudah masuk atau belum
    FirebaseUser user = FirebaseAuth.getInstance().getCurrentUser();
    if (user != null) {

```

```

// Pengguna sudah masuk, lanjutkan mengunggah data dengan UID pengguna
uid = user.getId();
FirebaseDatabase.getInstance().getReference("Data").child(uid).push()
    .setValue(dataClass).addOnCompleteListener(new
OnCompleteListener<Void>() {
    @Override
    public void onComplete(@NonNull Task<Void> task) {
        if (task.isSuccessful()) {
            Toast.makeText(Upload.this, "Saved",
Toast.LENGTH_SHORT).show();
            finish();
        }
    }
}).addOnFailureListener(new OnFailureListener() {
    @Override
    public void onFailure(@NonNull Exception e) {
        Toast.makeText(Upload.this, e.getMessage().toString(),
Toast.LENGTH_SHORT).show();
    }
});
} else {
// Pengguna belum masuk, tampilkan pesan kesalahan
    Toast.makeText(Upload.this, "User not logged in",
Toast.LENGTH_SHORT).show();
}
}
}
}

```

b. Activity_upload.xml

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.coordinatorlayout.widget.CoordinatorLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
android:layout_width="match_parent"
android:layout_height="match_parent"
xmlns:tools="http://schemas.android.com/tools"
android:background="@color/white"
android:fitsSystemWindows="true"
tools:context=".DATALAPORAN.Upload">

<com.google.android.material.appbar.AppBarLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:background="@android:color/transparent"
    app:elevation="0dp">

    <androidx.appcompat.widget.Toolbar
        android:id="@+id/toolbar"
        android:layout_width="match_parent"

```

```
android:layout_height="?actionBarSize"  
app:navigationIcon="@drawable/ic_back">
```

```
<RelativeLayout  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content">
```

```
    <TextView  
        android:layout_width="wrap_content"  
        android:layout_height="wrap_content"  
        android:layout_alignParentStart="true"  
        android:layout_centerInParent="true"  
        android:text="Upload Laporan"  
        android:textColor="@color/black"  
        android:textSize="20sp"  
        android:textStyle="bold" />
```

```
</RelativeLayout>
```

```
</androidx.appcompat.widget.Toolbar>
```

```
</com.google.android.material.appbar.AppBarLayout>
```

```
<androidx.core.widget.NestedScrollView  
    android:layout_width="match_parent"  
    android:layout_height="match_parent"  
    android:orientation="vertical"  
    app:layout_behavior="@string/appbar_scrolling_view_behavior">
```

```
    <LinearLayout  
        android:layout_width="match_parent"  
        android:layout_height="match_parent"  
        android:orientation="vertical">
```

```
        <androidx.cardview.widget.CardView  
            android:layout_width="match_parent"  
            android:layout_height="match_parent"  
            android:layout_margin="10dp"  
            app:cardCornerRadius="10dp"  
            app:cardElevation="5dp">
```

```
            <LinearLayout  
                android:layout_width="match_parent"  
                android:layout_height="match_parent"  
                android:orientation="vertical">
```

```
                <LinearLayout  
                    android:layout_width="match_parent"  
                    android:layout_height="50dp"  
                    android:background="@android:color/holo_orange_dark"
```

```
android:orientation="horizontal">
```

```
<ImageView  
    android:layout_width="30dp"  
    android:layout_height="30dp"  
    android:layout_gravity="center"  
    android:layout_marginStart="20dp"  
    android:src="@drawable/ic_info" />
```

```
<TextView  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_gravity="center"  
    android:layout_marginStart="20dp"  
    android:layout_marginEnd="20dp"  
    android:text="Input Laporan harus teliti ya!"  
    android:textColor="@color/white"  
    android:textSize="18sp" />
```

```
</LinearLayout>
```

```
<LinearLayout  
    android:id="@+id/layoutImage"  
    android:layout_width="match_parent"  
    android:layout_height="match_parent"  
    android:layout_marginStart="20dp"  
    android:layout_marginTop="20dp"  
    android:layout_marginEnd="20dp"  
    android:orientation="vertical">
```

```
<TextView  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_marginBottom="10dp"  
    android:text="FOTO"  
    android:textColor="@color/black"  
    android:textSize="16sp"  
    android:textStyle="bold" />
```

```
<FrameLayout  
    android:layout_width="match_parent"  
    android:layout_height="150dp"  
    android:background="@drawable/border_line_dotted">
```

```
<ImageView  
    android:id="@+id/uploadImage"  
    android:layout_width="match_parent"  
    android:layout_height="match_parent"  
    android:layout_gravity="center_horizontal"  
    android:adjustViewBounds="true"
```

```
        android:src="@drawable/ic_photo_camera" />
```

```
    </FrameLayout>
```

```
</LinearLayout>
```

```
<LinearLayout
```

```
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:layout_marginStart="20dp"  
    android:layout_marginTop="20dp"  
    android:layout_marginEnd="20dp"  
    android:orientation="vertical">
```

```
    <TextView
```

```
        android:layout_width="wrap_content"  
        android:layout_height="wrap_content"  
        android:text="Nama Anda"  
        android:textColor="@color/black"  
        android:textSize="14sp"  
        android:textStyle="bold" />
```

```
    <EditText
```

```
        android:id="@+id/uploadNama"  
        android:layout_width="match_parent"  
        android:layout_height="50dp"  
        android:backgroundTint="@android:color/holo_red_light"  
        android:hint="Masukan nama Anda"  
        android:imeOptions="actionNext"  
        android:maxLines="1"  
        android:singleLine="true"  
        android:textColor="@color/black"  
        android:textSize="16sp" />
```

```
</LinearLayout>
```

```
<LinearLayout
```

```
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:layout_marginStart="20dp"  
    android:layout_marginTop="20dp"  
    android:layout_marginEnd="20dp"  
    android:orientation="vertical">
```

```
    <TextView
```

```
        android:layout_width="wrap_content"  
        android:layout_height="wrap_content"  
        android:text="Tanggal & Waktu"  
        android:textColor="@color/black"  
        android:textSize="14sp"
```

```
android:textStyle="bold" />
```

```
<EditText  
  android:id="@+id/uploadTime"  
  android:layout_width="match_parent"  
  android:layout_height="50dp"  
  android:backgroundTint="@android:color/holo_red_light"  
  android:focusableInTouchMode="false"  
  android:hint="Masukkan tanggal dan waktu"  
  android:imeOptions="actionNext"  
  android:inputType="datetime"  
  android:maxLines="1"  
  android:textColor="@color/black"  
  android:textSize="16sp" />
```

```
</LinearLayout>
```

```
<LinearLayout  
  android:layout_width="match_parent"  
  android:layout_height="wrap_content"  
  android:layout_margin="20dp"  
  android:orientation="vertical">
```

```
<TextView  
  android:layout_width="wrap_content"  
  android:layout_height="wrap_content"  
  android:text="Hasil"  
  android:textColor="@color/black"  
  android:textSize="14sp"  
  android:textStyle="bold" />
```

```
<EditText  
  android:id="@+id/uploadHasil"  
  android:layout_width="match_parent"  
  android:layout_height="50dp"  
  android:backgroundTint="@android:color/holo_red_light"  
  android:hint="Masukan Hasil"  
  android:imeOptions="actionDone"  
  android:maxLines="1"  
  android:singleLine="true"  
  android:textColor="@color/black"  
  android:textSize="16sp" />
```

```
</LinearLayout>
```

```
<LinearLayout  
  android:layout_width="match_parent"  
  android:layout_height="wrap_content"  
  android:layout_margin="20dp"  
  android:orientation="vertical">
```

```

        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Keterangan"
            android:textColor="@color/black"
            android:textSize="14sp"
            android:textStyle="bold" />

        <EditText
            android:id="@+id/uploadKeterangan"
            android:layout_width="match_parent"
            android:layout_height="50dp"
            android:backgroundTint="@android:color/holo_red_light"
            android:hint="Masukan Keterangan"
            android:imeOptions="actionDone"
            android:maxLines="1"
            android:singleLine="true"
            android:textColor="@color/black"
            android:textSize="16sp" />

    </LinearLayout>

</LinearLayout>

</androidx.cardview.widget.CardView>

<com.google.android.material.button.MaterialButton
    android:id="@+id/Kirim"
    style="@style/Widget.MaterialComponents.Button"
    android:layout_width="match_parent"
    android:layout_height="60dp"
    android:layout_gravity="bottom"
    android:layout_marginStart="40dp"
    android:layout_marginTop="30dp"
    android:layout_marginEnd="40dp"
    android:layout_marginBottom="20dp"
    android:backgroundTint="@android:color/holo_orange_dark"
    android:text="Send"
    android:textAllCaps="false"
    android:textColor="@color/white"
    app:cornerRadius="20dp"
    app:elevation="5dp" />

</LinearLayout>

</androidx.core.widget.NestedScrollView>

</androidx.coordinatorlayout.widget.CoordinatorLayout>

```

1.6 Halaman Detail Data

1.6.1 Tampilan Halaman Detail Data Laporan



Gambar 6 - Halaman Detail Data Laporan

1.6.2 Source Code Halaman Detail Data Laporan

a. Detail.java

```
public class Detail extends AppCompatActivity {  
  
    TextView detailDesc, detailTitle, detailLang, detailTime;  
    ImageView detailImage;  
    FloatingActionButton deleteButton, editButton;  
    String key = "";  
    String imageUrl = "";  
    DatabaseReference databaseReference;  
    StorageReference storageReference;  
    StorageTask uploadTask;  
    FirebaseUser currentUser;  
  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_detail);  
  
        detailDesc = findViewById(R.id.detailDesc);  
        detailImage = findViewById(R.id.detailImage);  
        detailTitle = findViewById(R.id.detailTitle);  
        deleteButton = findViewById(R.id.deleteButton);  
        editButton = findViewById(R.id.editButton);  
        detailLang = findViewById(R.id.detailLang);  
    }  
}
```



```

detailTime = findViewById(R.id.detailTime);

currentUser = FirebaseAuth.getInstance().getCurrentUser();
Bundle bundle = getIntent().getExtras();
if (bundle != null){
    detailDesc.setText(bundle.getString("Hasil"));
    detailTitle.setText(bundle.getString("Nama"));
    detailLang.setText(bundle.getString("Keterangan"));
    key = bundle.getString("Key");
    imageUrl = bundle.getString("image");
    Glide.with(this).load(bundle.getString("image")).into(detailImage);

    String time = bundle.getString("Time");
    if (time != null) {
        detailTime.setText(time);
    } else {
        // Mendapatkan tanggal dan waktu saat ini
        String currentTime = new SimpleDateFormat("dd-MM-yyyy HH:mm:ss",
Locale.getDefault()).format(new Date());
        detailTime.setText(currentTime);
    }
}

deleteButton.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        showDeleteConfirmationDialog();
    }
});

editButton.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent intent = new Intent(Detail.this, Update.class)
            .putExtra("Nama", detailTitle.getText().toString())
            .putExtra("Hasil", detailDesc.getText().toString())
            .putExtra("Keterangan", detailLang.getText().toString())
            .putExtra("image", imageUrl)
            .putExtra("Key", key);
        startActivity(intent);
    }
});
}

private void showDeleteConfirmationDialog() {
    AlertDialog.Builder builder = new AlertDialog.Builder(this);
    builder.setTitle("Hapus");
    builder.setMessage("Apakah Anda yakin ingin menghapus data ini?");
    builder.setPositiveButton("Ya", new DialogInterface.OnClickListener() {
        @Override

```

```

        public void onClick(DialogInterface dialogInterface, int i) {
            deleteData();
        }
    });
    builder.setNegativeButton("Tidak", null);
    builder.show();
}

private void deleteData() {
    if (currentUser != null) {
        final String uid = currentUser.getId();
        final DatabaseReference reference =
        FirebaseDatabase.getInstance().getReference("Data").child(uid).child(key);
        final StorageReference storageReference =
        FirebaseStorage.getInstance().getReferenceFromUrl(imageUrl);
        storageReference.delete().addOnSuccessListener(new OnSuccessListener<Void>()
        {
            @Override
            public void onSuccess(Void unused) {
                reference.removeValue().addOnSuccessListener(new
                OnSuccessListener<Void>() {
                    @Override
                    public void onSuccess(Void unused) {
                        Toast.makeText(Detail.this, "Deleted",
                        Toast.LENGTH_SHORT).show();
                        startActivity(new Intent(getApplicationContext(), Data.class));
                        finish();
                    }
                });
            }
        });
    } else {
        Toast.makeText(Detail.this, "User tidak terautentikasi",
        Toast.LENGTH_SHORT).show();
    }
}
}
}

```

b. Activity_detail.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".DATALAPORAN.Detail">

```

```

<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Detail"
    android:layout_marginTop="14dp"
    android:textSize="24sp"
    android:layout_gravity="center"
    android:layout_marginBottom="12dp"
    android:textColor="@color/black"/>

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="406dp"
    android:layout_marginStart="20dp"
    android:layout_marginTop="20dp"
    android:layout_marginEnd="20dp"
    android:orientation="vertical">
    <FrameLayout
        android:layout_width="match_parent"
        android:layout_height="150dp"
        android:background="@drawable/border_line_dotted">

        <ImageView
            android:id="@+id/detailImage"
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:layout_gravity="center_horizontal"
            android:adjustViewBounds="true"
            android:src="@drawable/ic_photo_camera" />

    </FrameLayout>

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal">

        <TextView
            android:layout_width="10dp"
            android:layout_height="wrap_content"
            android:layout_weight="4"
            android:text="Nama"
            android:textColor="@color/black"
            android:textSize="20sp" />

        <TextView
            android:layout_width="0dp"
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:text="."

```

```
android:textColor="@color/black"  
android:textSize="20sp" />
```

```
<TextView  
  android:id="@+id/detailTitle"  
  android:layout_width="0dp"  
  android:layout_height="wrap_content"  
  android:layout_weight="7"  
  android:text="IKHSAN AKBAR"  
  android:textColor="@color/black"  
  android:textSize="20sp" />
```

```
</LinearLayout>
```

```
<LinearLayout  
  android:layout_width="match_parent"  
  android:layout_height="wrap_content"  
  android:orientation="horizontal">
```

```
<TextView  
  android:layout_width="10dp"  
  android:layout_height="wrap_content"  
  android:layout_weight="4"  
  android:text="Hasil"  
  android:textColor="@color/black"  
  android:textSize="20sp" />
```

```
<TextView  
  android:layout_width="0dp"  
  android:layout_height="wrap_content"  
  android:layout_weight="1"  
  android:text=":"  
  android:textColor="@color/black"  
  android:textSize="20sp" />
```

```
<TextView  
  android:id="@+id/detailLang"  
  android:layout_width="0dp"  
  android:layout_height="wrap_content"  
  android:layout_weight="7"  
  android:text="100 TON"  
  android:textColor="@color/black"  
  android:textSize="20sp" />
```

```
</LinearLayout>
```

```
<LinearLayout  
  android:layout_width="match_parent"  
  android:layout_height="wrap_content"  
  android:orientation="horizontal">
```

```
<TextView
    android:layout_width="10dp"
    android:layout_height="wrap_content"
    android:layout_weight="4"
    android:text="Keterangan"
    android:textColor="@color/black"
    android:textSize="20sp" />
```

```
<TextView
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text=":"
    android:textColor="@color/black"
    android:textSize="20sp" />
```

```
<TextView
    android:id="@+id/detailDesc"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:layout_weight="7"
    android:text="Hasil panen sangat mantap."
    android:textColor="@color/black"
    android:textSize="20sp" />
```

```
</LinearLayout>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="103dp"
    android:orientation="horizontal">
```

```
<TextView
    android:layout_width="10dp"
    android:layout_height="wrap_content"
    android:layout_weight="4"
    android:text="Waktu Upload"
    android:textColor="@color/black"
    android:textSize="20sp" />
```

```
<TextView
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text=":"
    android:textColor="@color/black"
    android:textSize="20sp" />
```

```
<TextView
```

```
android:id="@+id/detailTime"  
android:layout_width="0dp"  
android:layout_height="wrap_content"  
android:layout_weight="7"  
android:text="14/1/2022 09:00"  
android:textColor="@color/black"  
android:textSize="20sp" />
```

```
</LinearLayout>
```

```
</LinearLayout>
```

```
<RelativeLayout
```

```
android:layout_width="match_parent"  
android:layout_height="match_parent">
```

```
<com.github.clans.fab.FloatingActionMenu  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_alignParentBottom="true"  
android:layout_alignParentEnd="true"  
app:menu_fab_size="normal"  
android:layout_marginBottom="20dp"  
android:layout_marginEnd="20dp"  
app:menu_colorPressed="@color/lavender"  
app:menu_colorNormal="@color/lavender"  
app:menu_icon="@drawable/ic_baseline_format_list_bulleted_24"  
app:menu_openDirection="up"  
app:menu_showShadow="true">
```

```
<com.github.clans.fab.FloatingActionButton  
android:layout_width="48dp"  
android:layout_height="48dp"  
android:id="@+id/editButton"  
android:src="@drawable/edit"  
app:fab_showShadow="true"  
app:fab_size="mini" />
```

```
<com.github.clans.fab.FloatingActionButton  
android:layout_width="48dp"  
android:layout_height="48dp"  
android:id="@+id/deleteButton"  
android:src="@drawable/delete"  
app:fab_showShadow="true"  
app:fab_size="mini" />
```

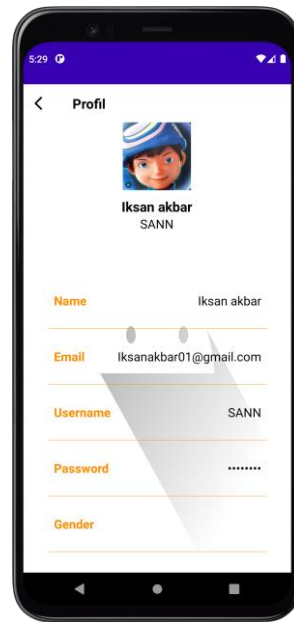
```
</com.github.clans.fab.FloatingActionMenu>
```

```
</RelativeLayout>
```

```
</LinearLayout>
```

1.7 Halaman Profil

1.7.1 Tampilan Halaman Profil



Gambar 7 - Halaman Profil

1.7.2 Source Code Halaman Profil

a. Profil.java

```
public class ProfilActivity extends AppCompatActivity {  
  
    private TextView profileName, profileEmail, profileUsername, profilePassword,  
profileAddress, profileGender, profileProfession, profileBirthdate;  
    private TextView titleName, titleUsername;  
    private Button editProfile, logout;  
    private ImageView profileImage;  
  
    private FirebaseAuth mAuth;  
    private DatabaseReference mDatabase;  
    private StorageReference mStorage;  
  
    private static final int PICK_IMAGE_REQUEST = 1;  
    private Uri mImageUri;  
  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_profil);  
        editProfile = findViewById(R.id.editButton);  
        logout = findViewById(R.id.logout);  
  
        logout.setOnClickListener(new View.OnClickListener() {  
            @Override  
            public void onClick(View view) {
```

```

AlertDialog.Builder builder = new AlertDialog.Builder(ProfilActivity.this);
builder.setTitle("Logout");
builder.setMessage("Apakah Anda yakin ingin logout?");
builder.setPositiveButton("Ya", new DialogInterface.OnClickListener() {
    @Override
    public void onClick(DialogInterface dialogInterface, int i) {
        FirebaseAuth.getInstance().signOut();
        Intent intent = new Intent(ProfilActivity.this, LoginActivity.class);
        startActivity(intent);
        finish();
    }
});
builder.setNegativeButton("Tidak", new DialogInterface.OnClickListener() {
    @Override
    public void onClick(DialogInterface dialogInterface, int i) {
        // Batal melakukan logout
    }
});
AlertDialog dialog = builder.create();
dialog.show();
});
editProfile.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent intent = new Intent(ProfilActivity.this, EditProfilActivity.class);
        startActivity(intent);
    }
});

 mAuth = FirebaseAuth.getInstance();
 mDatabase = FirebaseDatabase.getInstance().getReference();
 mStorage = FirebaseStorage.getInstance().getReference("profile_images");

 profileName = findViewById(R.id.profilname);
 profileEmail = findViewById(R.id.profileEmail);
 profileUsername = findViewById(R.id.profileUsername);
 profilePassword = findViewById(R.id.profilePassword);
 profileAddress = findViewById(R.id.profileAlamat);
 profileGender = findViewById(R.id.profileGender);
 profileProfession = findViewById(R.id.profileProfesi);
 profileBirthdate = findViewById(R.id.profileBirthdate);
 titleName = findViewById(R.id.titleName);
 titleUsername = findViewById(R.id.titleUsername);
 profileImage = findViewById(R.id.profileImage);

 profileImage.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        openImageChooser();
    }
});

```



```

    }
    });

    showUserData();
}

private void showUserData() {
    FirebaseUser user = mAuth.getCurrentUser();
    if (user != null) {
        String userId = user.getId();
        DatabaseReference userRef = FirebaseDatabase.getInstance().getReference().child("users").child(userId);

        ValueEventListener valueEventListener = new ValueEventListener() {
            @Override
            public void onDataChange(@NonNull DataSnapshot snapshot) {
                if (snapshot.exists()) {
                    String name = snapshot.child("name").getValue(String.class);
                    String email = snapshot.child("email").getValue(String.class);
                    String username = snapshot.child("username").getValue(String.class);
                    String password = snapshot.child("password").getValue(String.class);
                    String profileImageUrl =
snapshot.child("profileImageUrl").getValue(String.class);
                    String address = snapshot.child("alamat").getValue(String.class);
                    String gender = snapshot.child("gender").getValue(String.class);
                    String profession = snapshot.child("profesi").getValue(String.class);
                    String birthdate = snapshot.child("tglLahir").getValue(String.class);

                    titleName.setText(name);
                    titleUsername.setText(username);
                    profileName.setText(name);
                    profileEmail.setText(email);
                    profileUsername.setText(username);
                    profilePassword.setText(password);
                    profileAddress.setText(address);
                    profileGender.setText(gender);
                    profileProfession.setText(profession);
                    profileBirthdate.setText(birthdate);

                    if (profileImageUrl != null && !profileImageUrl.isEmpty()) {
                        Picasso.get().load(profileImageUrl).into(profileImage);
                    }
                }
            }
        };

        @Override
        public void onCancelled(@NonNull DatabaseError error) {
            // Handle database error
        }
    };
}

```

```

        userRef.addListenerForSingleValueEvent(valueEventListener);
    }
}

private void openImageChooser() {
    Intent intent = new Intent();
    intent.setType("image/*");
    intent.setAction(Intent.ACTION_GET_CONTENT);
    startActivityForResult(Intent.createChooser(intent, "Select Image"),
PICK_IMAGE_REQUEST);
}

@Override
protected void onActivityResult(int requestCode, int resultCode, Intent data) {
    super.onActivityResult(requestCode, resultCode, data);

    if (requestCode == PICK_IMAGE_REQUEST && resultCode == RESULT_OK &&
data != null && data.getData() != null) {
        mImageUri = data.getData();
        Picasso.get().load(mImageUri).into(profileImage);
        uploadProfileImage();
    }
}

private void uploadProfileImage() {
    if (mImageUri != null) {
        try {
            Bitmap bitmap = MediaStore.Images.Media.getBitmap(getContentResolver(),
mImageUri);
            int width = bitmap.getWidth();
            int height = bitmap.getHeight();

            if (width == 100 && height == 100) {
                // Jika ukuran gambar sesuai, langsung unggah gambar
                uploadImageToStorage(mImageUri);
            } else {
                // Jika ukuran gambar tidak sesuai, lakukan pemangkasan gambar
                Bitmap resizedBitmap = Bitmap.createScaledBitmap(bitmap, 100, 100, false);
                uploadResizedImageToStorage(resizedBitmap);
            }
        } catch (IOException e) {
            e.printStackTrace();
        }
    }
}

private void uploadImageToStorage(Uri imageUri) {
    StorageReference fileReference = mStorage.child(System.currentTimeMillis() + "." +
getFileExtension(imageUri));

```

```

UploadTask uploadTask = fileReference.putFile(imageUri);
uploadTask.continueWithTask(new Continuation<UploadTask.TaskSnapshot,
Task<Uri>>() {
    @Override
    public Task<Uri> then(@NonNull Task<UploadTask.TaskSnapshot> task) throws
Exception {
        if (!task.isSuccessful()) {
            throw task.getException();
        }
        return fileReference.getDownloadUrl();
    }
}).addOnCompleteListener(new OnCompleteListener<Uri>() {
    @Override
    public void onComplete(@NonNull Task<Uri> task) {
        if (task.isSuccessful()) {
            Uri downloadUri = task.getResult();
            if (downloadUri != null) {
                String imageUrl = downloadUri.toString();
                saveProfileImageUrl(imageUrl);
            }
        } else {
            // Handle error uploading image
        }
    }
});
}

private void uploadResizedImageToStorage(Bitmap bitmap) {
    ByteArrayOutputStream baos = new ByteArrayOutputStream();
    bitmap.compress(Bitmap.CompressFormat.JPEG, 100, baos);
    byte[] data = baos.toByteArray();

    StorageReference fileReference = mStorage.child(System.currentTimeMillis() +
".jpg");

    UploadTask uploadTask = fileReference.putBytes(data);
uploadTask.continueWithTask(new Continuation<UploadTask.TaskSnapshot,
Task<Uri>>() {
    @Override
    public Task<Uri> then(@NonNull Task<UploadTask.TaskSnapshot> task) throws
Exception {
        if (!task.isSuccessful()) {
            throw task.getException();
        }
        return fileReference.getDownloadUrl();
    }
}).addOnCompleteListener(new OnCompleteListener<Uri>() {
    @Override
    public void onComplete(@NonNull Task<Uri> task) {
        if (task.isSuccessful()) {

```

```

        Uri downloadUri = task.getResult();
        if (downloadUri != null) {
            String imageUrl = downloadUri.toString();
            saveProfileImageUrl(imageUrl);
        }
    } else {
        // Handle error uploading image
    }
}
});
}

private String getFileExtension(Uri uri) {
    ContentResolver contentResolver = getContentResolver();
    MimeTypeMap mimeTypeMap = MimeTypeMap.getSingleton();
    return mimeTypeMap.getExtensionFromMimeType(contentResolver.getType(uri));
}

private void saveProfileImageUrl(String imageUrl) {
    FirebaseUser user = mAuth.getCurrentUser();
    if (user != null) {
        String userId = user.getId();
        DatabaseReference userRef = mDatabase.child("users").child(userId);
        userRef.child("profileImageUrl").setValue(imageUrl);
    }
}
}
}

```

b. Activity_profil.xml

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/ic_launcher_foreground"
    tools:context=".Profil.ProfilActivity">

    <androidx.appcompat.widget.Toolbar
        android:id="@+id/toolbar"
        android:layout_width="match_parent"
        android:layout_height="?actionBarSize"
        app:navigationIcon="@drawable/ic_back"
        tools:ignore="MissingConstraints">

        <RelativeLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content">

```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentStart="true"
    android:layout_centerInParent="true"
    android:text="Profil"
    android:textColor="@color/black"
    android:textSize="20sp"
    android:textStyle="bold" />
```

```
</RelativeLayout>
```

```
</androidx.appcompat.widget.Toolbar>
```

```
<ImageView
    android:id="@+id/profileImage"
    android:layout_width="100dp"
    android:layout_height="100dp"
    android:layout_below="@id/titleUsername"
    android:layout_marginTop="56dp"
    android:src="@drawable/apk"
    android:clickable="true"
    android:scaleType="centerCrop"
    android:adjustViewBounds="true"
    android:maxLength="100dp"
    android:maxHeight="100dp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.498"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"/>
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/titleName"
    android:layout_marginTop="10dp"
    android:text="NAMA LENGKAP"
    android:textColor="@color/black"
    android:textSize="20sp"
    android:textStyle="bold"
    app:layout_constraintEnd_toEndOf="@id/profileImage"
    app:layout_constraintStart_toStartOf="@id/profileImage"
    app:layout_constraintTop_toBottomOf="@id/profileImage"/>
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/titleUsername"
    android:text="USERNAME"
```

```
android:textColor="@color/black"
android:textSize="18sp"
app:layout_constraintEnd_toEndOf="@id/titleName"
app:layout_constraintStart_toStartOf="@id/titleName"
app:layout_constraintTop_toBottomOf="@id/titleName"/>
```

```
<androidx.core.widget.NestedScrollView
    android:id="@+id/nestedScrollView"
    android:layout_width="409dp"
    android:layout_height="714dp"
    android:orientation="vertical"
    app:layout_behavior="@string/appbar_scrolling_view_behavior"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/titleUsername"
    tools:ignore="MissingConstraints">
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical">
```

```
<androidx.cardview.widget.CardView
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_margin="10dp"
    app:cardCornerRadius="10dp"
    app:cardElevation="5dp">
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical" />
```

```
</androidx.cardview.widget.CardView>
```

```
<LinearLayout
    android:id="@+id/linearLayout"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginStart="24dp"
    android:layout_marginTop="30dp"
    android:layout_marginEnd="24dp"
    android:orientation="vertical"
    android:padding="10dp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@id/titleUsername">
```

```

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginLeft="10dp"
    android:layout_marginTop="20dp"
    android:layout_marginRight="10dp"
    android:layout_marginBottom="10dp"
    android:orientation="horizontal"
    android:padding="8dp">

    <TextView
        android:id="@+id/ename"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="Name"
        android:textColor="@color/lavender"
        android:textSize="18sp"
        android:textStyle="bold" />

    <TextView
        android:id="@+id/profilname"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="Name"
        android:textAlignment="viewEnd"
        android:textColor="@color/grey"
        android:textSize="18sp" />

</LinearLayout>

<androidx.appcompat.widget.AppCompatImageView
    android:layout_width="match_parent"
    android:layout_height="1dp"
    android:layout_margin="10dp"
    android:alpha="0.5"
    android:background="@color/lavender" />

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_margin="10dp"
    android:orientation="horizontal"
    android:padding="8dp">

    <TextView
        android:id="@+id/email"

```

```
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_weight="1"
android:text="Email"
android:textColor="@color/lavender"
android:textSize="18sp"
android:textStyle="bold" />
```

```
<TextView
  android:id="@+id/profileEmail"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:layout_weight="1"
  android:text="Email"
  android:textAlignment="viewEnd"
  android:textColor="@color/grey"
  android:textSize="18sp" />
```

```
</LinearLayout>
```

```
<androidx.appcompat.widget.AppCompatImageView
  android:layout_width="match_parent"
  android:layout_height="1dp"
  android:layout_margin="10dp"
  android:alpha="0.5"
  android:background="@color/lavender" />
```

```
<LinearLayout
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  android:layout_margin="10dp"
  android:orientation="horizontal"
  android:padding="8dp">
```

```
<TextView
  android:id="@+id/username"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:layout_weight="1"
  android:text="Username"
  android:textColor="@color/lavender"
  android:textSize="18sp"
  android:textStyle="bold" />
```

```
<TextView
  android:id="@+id/profileUsername"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:layout_weight="1"
  android:text="Username"
```



```
        android:textAlignment="viewEnd"  
        android:textColor="@color/grey"  
        android:textSize="18sp" />
```

```
</LinearLayout>
```

```
<androidx.appcompat.widget.AppCompatImageView  
    android:layout_width="match_parent"  
    android:layout_height="1dp"  
    android:layout_margin="10dp"  
    android:alpha="0.5"  
    android:background="@color/lavender" />
```

```
<LinearLayout  
    android:layout_width="match_parent"  
    android:layout_height="match_parent"  
    android:layout_margin="10dp"  
    android:orientation="horizontal"  
    android:padding="8dp">
```

```
<TextView  
    android:id="@+id/password"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_weight="1"  
    android:text="Password"  
    android:textColor="@color/lavender"  
    android:textSize="18sp"  
    android:textStyle="bold" />
```

```
<TextView  
    android:id="@+id/profilePassword"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_weight="1"  
    android:text="password"  
    android:inputType="textPassword"  
    android:textAlignment="viewEnd"  
    android:textColor="@color/black"  
    android:textSize="18sp" />
```

```
</LinearLayout>
```

```
<androidx.appcompat.widget.AppCompatImageView  
    android:layout_width="match_parent"  
    android:layout_height="1dp"  
    android:layout_margin="10dp"  
    android:alpha="0.5"  
    android:background="@color/lavender" />
```

```

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_margin="10dp"
    android:orientation="horizontal"
    android:padding="8dp">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="Gender"
        android:textColor="@color/lavender"
        android:textSize="18sp"
        android:textStyle="bold" />

    <TextView
        android:id="@+id/profileGender"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="Gender"
        android:textAlignment="viewEnd"
        android:textColor="@color/black"
        android:textSize="18sp" />

</LinearLayout>

<androidx.appcompat.widget.AppCompatImageView
    android:layout_width="match_parent"
    android:layout_height="1dp"
    android:layout_margin="10dp"
    android:alpha="0.5"
    android:background="@color/lavender" />

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_margin="10dp"
    android:orientation="horizontal"
    android:padding="8dp">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="Address"
        android:textColor="@color/lavender"
        android:textSize="18sp"
        android:textStyle="bold" />

```

```

<TextView
    android:id="@+id/profileAlamat"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="Address"
    android:textAlignment="viewEnd"
    android:textColor="@color/black"
    android:textSize="18sp" />

</LinearLayout>

<androidx.appcompat.widget.AppCompatImageView
    android:layout_width="match_parent"
    android:layout_height="1dp"
    android:layout_margin="10dp"
    android:alpha="0.5"
    android:background="@color/lavender" />

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_margin="10dp"
    android:orientation="horizontal"
    android:padding="8dp">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="Profession"
        android:textColor="@color/lavender"
        android:textSize="18sp"
        android:textStyle="bold" />

    <TextView
        android:id="@+id/profileProfesi"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="Profession"
        android:textAlignment="viewEnd"
        android:textColor="@color/black"
        android:textSize="18sp" />

</LinearLayout>

<androidx.appcompat.widget.AppCompatImageView
    android:layout_width="match_parent"

```

```
android:layout_height="1dp"
android:layout_margin="10dp"
android:alpha="0.5"
android:background="@color/lavender" />
```

```
<LinearLayout
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  android:layout_margin="10dp"
  android:orientation="horizontal"
  android:padding="8dp">
```

```
<TextView
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:layout_weight="1"
  android:text="Birthdate"
  android:textColor="@color/lavender"
  android:textSize="18sp"
  android:textStyle="bold" />
```

```
<TextView
  android:id="@+id/profileBirthdate"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:layout_weight="1"
  android:text="Birthdate"
  android:textAlignment="viewEnd"
  android:textColor="@color/black"
  android:textSize="18sp" />
```

```
</LinearLayout>
```

```
<LinearLayout
  android:layout_width="match_parent"
  android:layout_height="wrap_content"
  android:orientation="horizontal"
  android:gravity="center">
```

```
<Button
  android:id="@+id/editButton"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:backgroundTint="@color/lavender"
  android:gravity="center"
  android:text="Edit Profil"
  android:textSize="18sp"
  app:cornerRadius="20dp"
  android:layout_marginEnd="10dp"/>
```

```
<Button
```

```

        android:id="@+id/logout"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:backgroundTint="@android:color/holo_red_dark"
        android:gravity="center"
        android:text="Logout"
        android:textSize="18sp"
        app:cornerRadius="20dp"
        android:layout_marginStart="10dp"/>
</LinearLayout>
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_margin="10dp"
    android:orientation="horizontal"
    android:padding="8dp">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="Birthdate"
        android:textColor="@color/lavender"
        android:textSize="18sp"
        android:textStyle="bold" />

    <TextView

        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="Birthdate"
        android:textAlignment="viewEnd"
        android:textColor="@color/black"
        android:textSize="18sp" />

</LinearLayout>
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_margin="10dp"
    android:orientation="horizontal"
    android:padding="8dp">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="Birthdate"
        android:textColor="@color/lavender"

```

```
        android:textSize="18sp"
        android:textStyle="bold" />

    <TextView

        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="Birthdate"
        android:textAlignment="viewEnd"
        android:textColor="@color/black"
        android:textSize="18sp" />

    </LinearLayout>

</LinearLayout>

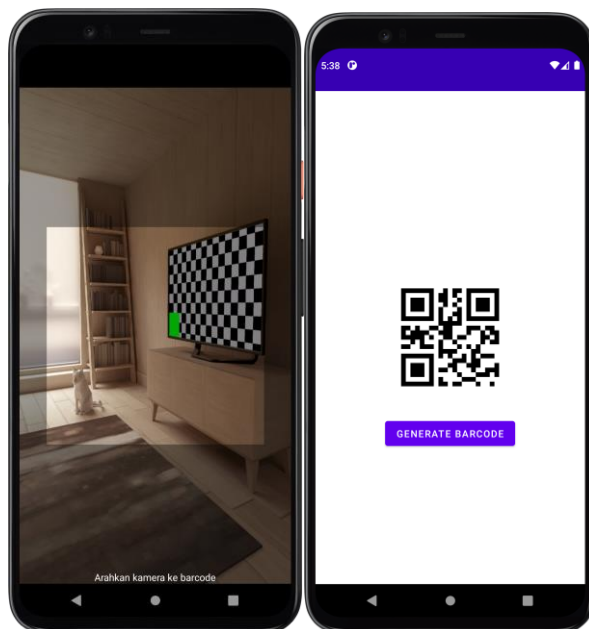
</LinearLayout>

</androidx.core.widget.NestedScrollView>

</androidx.constraintlayout.widget.ConstraintLayout>
```

1.8 Halaman Absensi

1.7.1 Tampilan Halaman Absensi



Gambar 8 - Halaman scan barcode dan generator

1.7.2 Source Code Halaman Absensi

a Scan.java

```
private void scanCode() {
    IntentIntegrator integrator = new IntentIntegrator(this);
    integrator.setPrompt("Volume up to flash on");
    integrator.setBeepEnabled(true);
    integrator.setOrientationLocked(false); // Mengizinkan rotasi tampilan
    integrator.setCaptureActivity(CustomCaptureActivity.class); // Menggunakan
CustomCaptureActivity
    integrator.setDesiredBarcodeFormats(IntentIntegrator.ALL_CODE_TYPES); //
Memindai semua jenis barcode
    integrator.setPrompt("Arahkan kamera ke barcode");
    integrator.setBarcodeImageEnabled(true); // Mengaktifkan penyimpanan gambar
barcode
    integrator.initiateScan();
}

@Override
protected void onActivityResult(int requestCode, int resultCode, Intent data) {
    IntentResult result = IntentIntegrator.parseActivityResult(requestCode, resultCode,
data);
    if (result != null && result.getContents() != null) {
        String barcodeData = result.getContents();
        String timestamp = getTimeStamp();

        if (currentUser != null) {
            String uid = currentUser.getId();
            DatabaseReference userRef = databaseReference.child(uid);

            // Get current date
            Calendar calendar = Calendar.getInstance();
            SimpleDateFormat dateFormat = new SimpleDateFormat("yyyy-MM-dd",
Locale.getDefault());
            String currentDate = dateFormat.format(calendar.getTime());

            Absensi absensi = new Absensi(timestamp, barcodeData,
currentUser.getDisplayName(), currentUser.getEmail(), uid);
            userRef.child(currentDate).setValue(absensi);
        }

        showSuccessMessage("Anda berhasil absensi");
    } else {
        super.onActivityResult(requestCode, resultCode, data);
    }
}

private String getTimeStamp() {
    SimpleDateFormat sdf = new SimpleDateFormat("yyyy-MM-dd HH:mm:ss",
Locale.getDefault());
```

```

    Date now = new Date();
    return sdf.format(now);
}

private void showSuccessMessage(String message) {
    AlertDialog.Builder builder = new AlertDialog.Builder(AbsenActivity.this);
    builder.setTitle("Result");
    builder.setMessage(message);
    builder.setPositiveButton("OK", new DialogInterface.OnClickListener() {
        @Override
        public void onClick(DialogInterface dialogInterface, int i) {
            dialogInterface.dismiss();
        }
    }).show();
}

private void showErrorMessage(String message) {
    AlertDialog.Builder builder = new AlertDialog.Builder(AbsenActivity.this);
    builder.setTitle("Error");
    builder.setMessage(message);
    builder.setPositiveButton("OK", new DialogInterface.OnClickListener() {
        @Override
        public void onClick(DialogInterface dialogInterface, int i) {
            dialogInterface.dismiss();
        }
    }).show();
}
}
}

```

b. Generator.java

```

private void generateQRCode(String text) {
    int width = 500;
    int height = 500;

    QRCodeWriter qrCodeWriter = new QRCodeWriter();
    try {
        BitMatrix bitMatrix = qrCodeWriter.encode(text, BarcodeFormat.QR_CODE,
width, height);
        int[] pixels = new int[width * height];
        for (int y = 0; y < height; y++) {
            for (int x = 0; x < width; x++) {
                if (bitMatrix.get(x, y)) {
                    pixels[y * width + x] = 0xFF000000; // Black color
                } else {
                    pixels[y * width + x] = 0xFFFFFFFF; // White color
                }
            }
        }
    }
}
}

```



```

        Bitmap bitmap = Bitmap.createBitmap(width, height,
Bitmap.Config.ARGB_8888);
        bitmap.setPixels(pixels, 0, width, 0, 0, width, height);

        barcodeImageView.setImageBitmap(bitmap);
    } catch (WriterException e) {
        Log.e("BarcodeGenerator", "Terjadi kesalahan saat menghasilkan barcode", e);
    }
}

private boolean isWithinAbsenTime() {
    Calendar calendar = Calendar.getInstance();
    int currentHour = calendar.get(Calendar.HOUR_OF_DAY);
    int currentMinute = calendar.get(Calendar.MINUTE);

    // Tentukan jam absen yang diizinkan (misalnya 8:00 - 10:30)
    int absenStartHour = 0;
    int absenStartMinute = 0;
    int absenEndHour = 23;
    int absenEndMinute = 59;

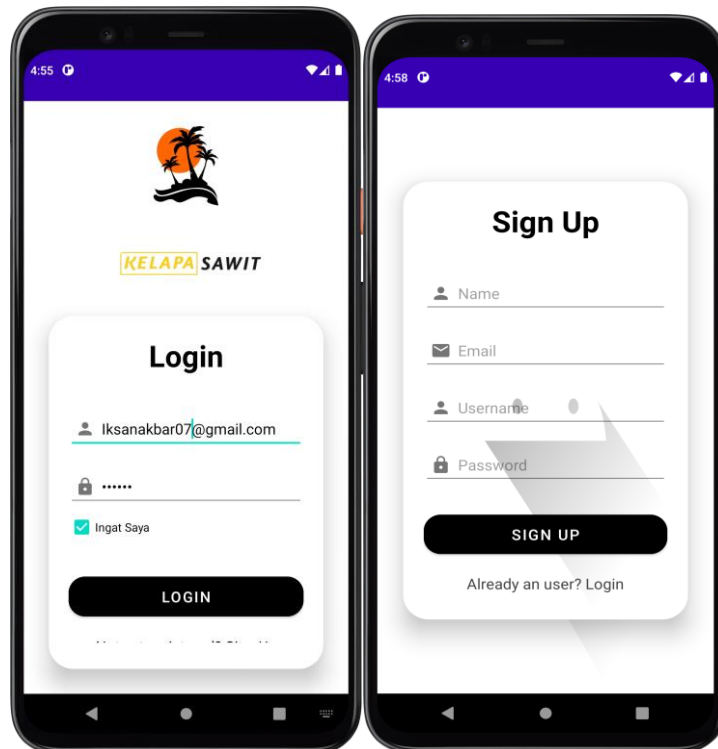
    if (currentHour > absenStartHour && currentHour < absenEndHour) {
        return true;
    } else if (currentHour == absenStartHour && currentMinute >= absenStartMinute) {
        return true;
    } else return currentHour == absenEndHour && currentMinute <= absenEndMinute;
}
}

```

2. PENGGUNAAN PROGRAM

Aplikasi Pendataan Kelapa Sawit adalah sebuah sistem yang dibangun dengan menggunakan bahasa pemrograman Java, dan Firebase sebagai databesnya. Sistem ini di bangun untuk membantu KUD Sedyo Mulyo dalam mengelola data karyawan dengan lebih efisien dan efektif. Dengan sistem ini, diharapkan KUD Sedyo Mulyo dapat melakukan pendataan hasil panen, absensi karyawan, dan mengelola data karyawan secara otomatis, mengurangi kesalahan manusia, dan mengoptimalkan penggunaan sumber daya.

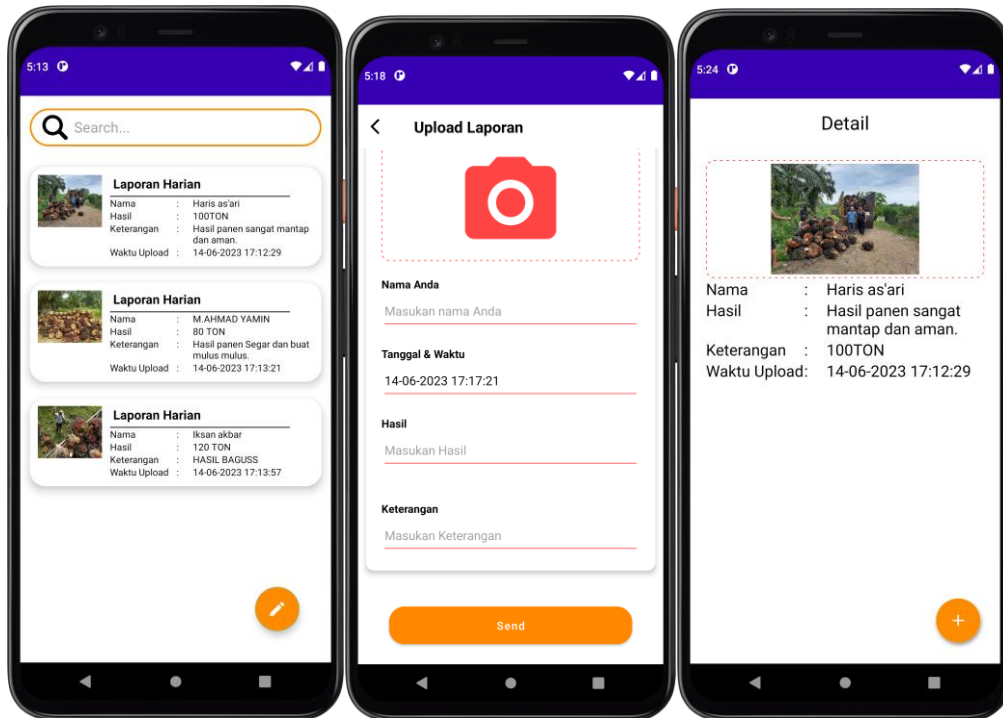
2.1 Melakukan Login dan Signup



Gambar 9 - Alur Login dan SignUp

Halaman ini digunakan oleh Karyawan untuk mengakses sistem dengan menggunakan akun yang telah di buat dan apabila belum bisa melakukan signup terlebih dahulu, data signup berisi Nama lengkap, Email aktif, Username, dan Password.

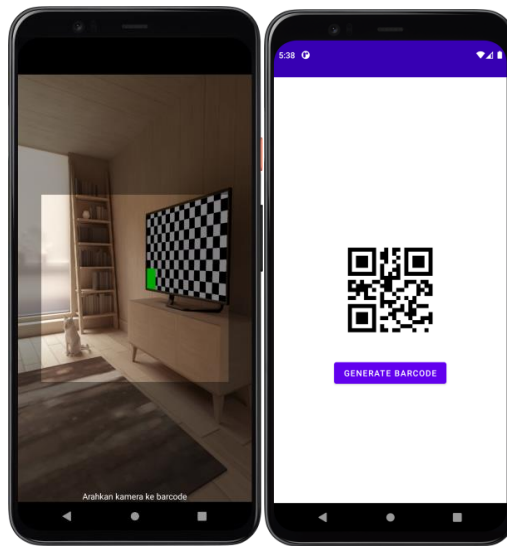
2.2 Membuat laporan Panen



Gambar 10 - Membuat Laporan Hasil Panen

Halaman ini digunakan untuk membuat hasil laporan panen yang di dapat. Di halaman ini, karyawan dapat mengisi sebuah data untuk mengupload sebuah laporan harian. Form tersebut berisi Nama Pemilik kebun, Tanggal dan waktu, Hasil panen, Keterangan, dalam halaman utama pada menu laporan berisi tentang data yang telah di upload dari setiap user data melihat uploadan hasil laporan masing masing dan tidak dapat melihat hasil uploadan milik karyawan lain. Halaman di atas mencakup tentang Input laporan, Detail Laporan, dan Hasil Laporan.

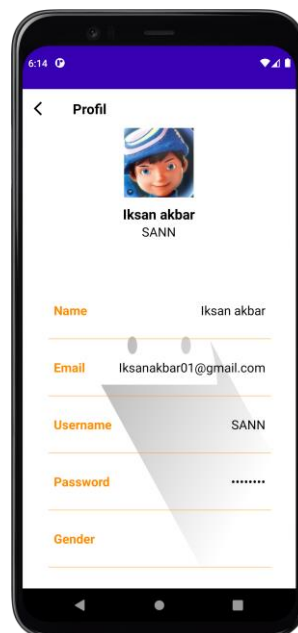
2.3 Membuat Barcode dan Scan Barcode



Gambar 11 - Membuat Barcode dan Scan Barcode

Halaman ini digunakan untuk membuat barcode dan Scan barcode. Di halaman ini, hanya admin yang dapat membuat sebuah barcode untuk melakukan absensi. Sedangkan karyawan hanya bisa melakukan scan di dalam scan barcode berisi, nama yang melakukan absensi, uid, tanggal absensi, dan kehadiran, alpha atau izin .

2.4 Halaman Profil Pengguna



Gambar 12 – Halaman Profil Pengguna

Pada halaman ini Beisi tentang data-data karyawan yang telah mendaftarkan aplikasi tersebut pada halaman berikut berisi tentang data-data awal sewaktu registrasi dan karyawan diminta untuk melengkapi data-data yang diperlukan, yang berisi tentang nama, email, username, password, jenis kelamin, alamat lengkap, profesi, tanggal lahir dan foto profil.

SURAT PENGALIHAN HAK CIPTA

Yang bertanda tangan di bawah ini :

N a m a : Ikhsan Akbar
Alamat : Jl. Lintas Timur Sumatra Selatan Tugu Mulyo Kec,Lempuing OKI, Kab.Ogan Komering
Ilir Sumatra Selatan

N a m a : Agus Suhendar,S.T.,M.Eng.
Alamat : Degan II, 082/041, Banjararum, Kalibawang, Kulon Progo, Yogyakarta 55672

Adalah **Pihak I** selaku pencipta, dengan ini menyerahkan karya ciptaan saya kepada :

N a m a : Universitas Teknologi Yogyakarta
Alamat : Jl. Siliwangi (Ringroad Utara), Jombor, Sleman, D.I.Yogyakarta, 55285

Adalah **Pihak II** selaku Pemegang Hak Cipta berupa Program Komputer yang berjudul Aplikasi Sistem Informasi Pendataan Karyawan Kelapa Sawit untuk didaftarkan di Direktorat Hak Cipta dan Desain Industri, Direktorat Jenderal Kekayaan Intelektual, Kementerian Hukum dan Hak Asasi Manusia Republik Indonesia.

Demikianlah surat pengalihan hak ini kami buat, agar dapat dipergunakan sebagaimana mestinya.

Yogyakarta, 14 Juni 2023

Pemegang Hak Cipta
Rektor UTY

Dr. Bambang Moertono S, MM., Akt, CA.

Pencipta



Ikhsan Akbar
Agus Suhendar,S.T.,M.Eng.

SURAT PERNYATAAN

Yang bertanda tangan di bawah ini, pemegang hak cipta:

N a m a : 1. Ikhsan Akbar
Kewarganegaraan : Indonesia
Alamat : Jl. Lintas Timur Tugu Mulyo Kec, Lempuing OKI , Kab.Ogan Komering Ilir Sumtara Selatan
Kode Pos : 30657

N a m a : 2. Agus Suhendar,S.T.,M.Eng.
Kewarganegaraan : Indonesia
Alamat : Degan II, 082/041, Banjararum, Kalibawang, Kulon Progo, Yogyakarta, DIY
Kode Pos : 55672

Dengan ini menyatakan bahwa:

1. Karya Cipta yang saya mohonkan:

Berupa : Program Komputer

Berjudul : Sistem Informasi Pendataan Karyawan Kelapa Sawit (Studi Kasus KUD: Sedyo Mulyo)

- Tidak meniru dan tidak sama secara esensial dengan Karya Cipta milik pihak lain atau obyek kekayaan intelektual lainnya sebagaimana dimaksud dalam Pasal 68 ayat (2);
 - Bukan merupakan Ekspresi Budaya Tradisional sebagaimana dimaksud dalam Pasal 38;
 - Bukan merupakan Ciptaan yang tidak diketahui penciptanya sebagaimana dimaksud dalam Pasal 39;
 - Bukan merupakan hasil karya yang tidak dilindungi Hak Cipta sebagaimana dimaksud dalam Pasal 41 dan 42;
 - Bukan merupakan Ciptaan seni lukis yang berupa logo atau tanda pembeda yang digunakan sebagai merek dalam perdagangan barang/jasa atau digunakan sebagai lambang organisasi, badan usaha, atau badan hukum sebagaimana dimaksud dalam Pasal 65 dan;
 - Bukan merupakan Ciptaan yang melanggar norma agama, norma susila, ketertiban umum, pertahanan dan keamanan negara atau melanggar peraturan perundang-undangan sebagaimana dimaksud dalam Pasal 74 ayat (1) huruf d Undang-Undang Nomor 28 Tahun 2014 tentang Hak Cipta.
2. Sebagai pemohon mempunyai kewajiban untuk menyimpan asli contoh ciptaan yang dimohonkan dan harus memberikan apabila dibutuhkan untuk kepentingan penyelesaian sengketa perdata maupun pidana sesuai dengan ketentuan perundang-undangan.
3. Karya Cipta yang saya mohonkan pada Angka 1 tersebut di atas tidak pernah dan tidak sedang dalam sengketa pidana dan/atau perdata di Pengadilan.
4. Dalam hal ketentuan sebagaimana dimaksud dalam Angka 1 dan Angka 3 tersebut di atas saya / kami langgar, maka saya / kami bersedia secara sukarela bahwa:
- a. permohonan karya cipta yang saya ajukan dianggap ditarik kembali; atau
 - b. Karya Cipta yang telah terdaftar dalam Daftar Umum Ciptaan Direktorat Hak Cipta, Direktorat Jenderal Hak Kekayaan Intelektual, Kementerian Hukum Dan Hak Asasi Manusia R.I dihapuskan sesuai dengan ketentuan perundang-undangan yang berlaku.
 - c. Dalam hal kepemilikan Hak Cipta yang dimohonkan secara elektronik sedang dalam berperkara dan/atau sedang dalam gugatan di Pengadilan maka status kepemilikan surat pencatatan elektronik tersebut ditangguhkan menunggu putusan Pengadilan yang berkekuatan hukum tetap.

Demikian Surat pernyataan ini saya/kami buat dengan sebenarnya dan untuk dipergunakan sebagaimana mestinya.

Yogyakarta, 14 Juni 2023



1. Ikhsan Akbar
2. Agus Suhendar, S.T., M.Eng

Pemegang Hak Cipta*

* Semua pemegang hak cipta agar menandatangani di atas materai.