

OPTIMIZATION OF CATHOLIC CHURCH MARRIAGE PREPARATION CLASS REGISTRATION WITH MOBILE APPLICATION SYSTEM INTEGRATION

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ABSTRACT

Often, prospective couples face challenges in the registration process for Catholic marriage preparation classes. These difficulties are caused by factors such as differences in domicile between prospective couples, time estimates, and significant costs associated with collecting the necessary documents and sending the data to the Church secretariat. The main goal is to establish a mobile-based optimization system for Catholic marriage preparation class registration. This system is designed to simplify the registration process, allowing registration from any location with a strong internet connection, and the flexibility to comply with Church-imposed deadlines. The proposed model focuses on increasing the efficiency and effectiveness of the marriage preparation class registration system. The system can display class schedules and registration forms, upload required documents, and manage registrant data using Unified Modeling Language (UML). Applying the waterfall method and applying qualitative data processing techniques, the resulting system offers a more practical and simpler experience via a mobile platform. Next, the system undergoes black box testing to ensure its functionality. The prototype for optimizing mobile-based Catholic marriage preparation class registration was developed using Android Studio system tools and the Kotlin programming language. In this research, an application was created to have a more practical and simpler process using a mobile-based system that can display information on marriage preparation class schedules and registration forms, provide means for prospective brides and grooms to upload required files, and store information on marriage preparation class registrants.

Keywords: Optimization of Marriage Preparations, Mobile Based Registration, Unified Modeling Language, Waterfall, Black Box Testing