

DESIGNING AND TESTING QR CODE BIKE PARKING SAFETY SYSTEM USING ANDROID-BASED RASPBERRY PI 3

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ABSTRACT

The safety of a bicycle park is an important thing to pay attention, because a bicycle park is the right for bicycle users to deposit their bicycle properly and safely. In fact, the parking slot still has a problem with security due to the lack of a good security system in the parking slot. Therefore, the researcher created a tool to make parking slots better and safer by combining two problems between parking slots or parking for users who pay less attention to security. This tool allowed the customers to control the bike using an application installed on the Smartphone. The user or customer only needs to move the QR code on each parking slot to use the empty slot. Indeed, this tool was designed with a locking lever that is directly attached to the tool. Therefore, the bicycle users are not compliant to carry the bicycle lock. Indeed, the parking slot using an old design would be useful by using the Raspberry device as a working tool.

Keywords: *Application, Bicycle Parking, Qr code, Raspberry pi*