

ABSTRACT

DEVELOPMENT KUDAKI.ID ANDROID APPLICATION AS AN OUTDOOR EQUIPMENT RENTING PLATFORM USING MODEL-VIEW-PRESENTER (MVP) ARCHITECTURE

By

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Indonesia is the largest archipelago in Southeast Asia which has various mountains that are famous to the international sphere. Mountains in Indonesia become a dance power for climbers from various parts of the world to explore and do climbing. When climbing a mountain, of course, a climber must prepare climbing equipment that suits their needs and sufficient knowledge about the destination mountain. Because every mountain has different terrain, weather, and characteristics. However, in 2018, Search and Rescue examined that in doing accidents there was a risk of accidents. The number of accidents experienced by climbers when climbing is generally caused by three main factors namely, lack of experience, physical condition, and poor judgment in climbing. However, poor judgment in planning climbing is an important enough factor to be prevented because it has an accident percentage rate of 18-19%. Planning referred to in this case is one of them planning equipment that needs to be brought when making the climb. Climbers must know what equipment needs to be taken to climb. However, in reality not all climbers have adequate equipment. Thus, Kudaki.id comes as a solution to help climbers in planning their climbing activities and also helps reduce the level of climbing accidents by making it easier for hikers to be able to rent climbing equipment as needed. Then, the authors also use the architecture in the form of MVP to develop applications where this architecture is an architecture that is quite popular in developing Android-based applications consisting of Models, View, and Presenter. Thus, at the end of this study the authors managed to build the Android-based Kudaki.id application by applying the MVP architecture. In

addition, the authors also tested using the UAT method with the Black Box testing approach to determine user acceptance of the Kudaki.id application. The results obtained from the Black Box Testing test show that some of the features in the Kudaki.id application already meet user criteria so that the Kudaki.id application can be accepted in the community.

Keywords: Climber, Climbing Equipment, Android Application, MVP Architecture, Black Box Testing