ABSTRACT

ITS dormitory is one of ITS public facilities that aims to provide a place to live for the college students. It has 9 buildings with the total capacity of 1,072 students. There are 2 kinds of buildings which are single block and twin block.

On this Final Project, a web-based application is developed to show room availability, book a room, manage the catalog data. There is also a complaining ticket feature which enables the occupant and the manager of ITS dormitory to interact. In the application development, a modular HMVC software pattern is developed. To enhance the user experience, a responsive web technology is also implemented by using Zurb Foundation framework.

The testing results show that the application is able to show room availability, book a room, manage the dormitory catalog data. The management includes creating, reading, updating and deleting. The occupant opens the complaining ticket and the manager responds to it. The occupant can follow up which consequently makes the complaining ticket feature more interactive.

Keywords: buildings data, HMVC, reservation, responsive web, room data, room variety
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