

ABSTRACT

DESIGN OF RUMANTARA APPLICATIONS BACK END USING REST ARCHITECTURAL STYLE WITH ITERATIVE INCREMENTAL METHOD

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A place to stay is one of traveller needs when travelling, a new trend for accomodation is to stay in local resident houses. Traveller choose to stay in local resident houses because more affordable price, and want to feel the authentic local experience using online application.

Online room rent system is not a new thing in Indonesia, there are some company that already run the business in Indonesia, Airbnb and Airyroom is an example for company that run the business in indonesia on accomodation field. Airbnb focused on a whole house rental while Airyroom focused on hotel room rental. For this reason, the business area that run on room on resident house rental still have no competitors, and this opportunity utilized on the research.

On this research, will be built an application that help traveller on finding rooms on local resident houses that can be rented. This application named Rumantara. Rumantara is a startup company that runs room on local resident house rental. The main purpose of Rumantara is to help traveller that want to stay on local resident house in easy and efficeint, and also to help raising local resident economy.

To get the best result on Rumantara application development, the system architecture divided into backend API, frontend, and mobile (Android). This research focused on Rumantara back end API development. The concept that used in research is REST that implemented on API. This concept allow distribution data

from one backend server to many client that runs on web or mobile. To support the REST concept, on research used Laravel framework to built the application.

The Software Development Lifecycle that used on research is Iterative Incremental, where this method makes user requirements as a prioritize. This method matched the Rumantara condition where there are small development team and need a good result from user requirements. On this research the number of iteration used is 3 iteration.

The result from the research is a backend application that serve all function that needed by client on web and mobile tu run the business function.

Keyword: restful api, Laravel ,backend, iterative incremental