

ABSTRACT

BUILDING FRONT-END WEBSITE APPLICATION FOR STARTUP MINJEMIN

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All people have a tendency to need tools or goods to support their activities, ranging from everyday goods to goods that are only used if needed. One way to get these items is to buy. But not all goods that have been purchased will always be used continuously so that the accumulation of unused goods and eventually the goods purchased will become unproductive and the economic value will continue to decrease. On the other hand some people need goods but do not have the cost to buy the item or feel in vain because the goods needed are only used once or twice. From the description above there are problems experienced by the two parties that can be resolved by bringing them together in a platform. This problem is often found in people around the author, especially among students, because students are a phase in which the need to have incidental goods is very high both for educational needs, organizational activities, and personal activities. In this research, the writer will build a platform for borrowing and leasing goods at startup Minjemin. To facilitate the process of payment for leasing and leasing transactions, this application will also implement online payments (e-payment).

This study uses several concepts such as software development, web applications, front-end web applications, frameworks or libraries of JavaScript, and also software testing. The concept of the web application that will be built is the front-end section because minjemin have existing backend system. The research will focus on the development of front-end web applications, all the process data retrieved from back-end systems. Whereas to distribute data from the server using Restful-API. Web development is built using JavaScript programming language, by using existing JavaScript libraries. Among the several existing libraries or JavaScript frameworks, namely React, Angular, Ember, Vue, and Backbone, the development of this application will use React. This front-end web application will be built using software development methods.

The software development method used in this study is Iterative Incremental. This method is a development model that is based on the idea of developing software by prioritizing user needs first which is done repeatedly or called iteration until user needs are met. The reason for using this method is because this method is a method

that combines iterative methods and incremental models where when in software development if changes or additions to the system functions can be easily repeated stages of system development. In addition, because this research focuses on web application front-end which is a part that interacts directly with the user, then the possibility of changes in some functions will often occur, with this method can easily be a stage of function development that can be repeated to meet user requirements. In this method, it is developed in stages, divided into four stages, namely the stages of inception, elaboration, construction, and transition. This research has an iteration limit of three times, according to the main features that will be built on this alpha version of the Minjemin application.

This research resulted in a website-based loan leasing application platform with e-payment to facilitate payment transactions at startup Minjemin. Front-end websites built using React as JavaScript libraries..

Keywords : rental marketplace, software, web application, front-end, iterative incremental.