

ABSTRACT

Project management is a set of processes contains of planning activity, organization activity, and managing tasks and resources to realize the project goals by considering the time and project costs. Project management requires a tools to increase productivity and organizing a project.

Scrum is a project management framework that is widely used in the world by the practitioners. Scrum is a project management framework prioritize collaboration between team and flexibility. Scrum is widely used because of it's processess based on emphirical method, or in the other words, scrum uses inspection and adaptation on it's processess. However, scrum is pretty much difficult to implement because of many practitioners uses conventional method to manage scrum project. Therefore, there is a need of scrum project management application to accomodate conventional method weakness.

In this study, the development of scrum based electronic project management using prototyping method. Prototyping method is used to met user requirements. The prototype design created using mockup and then detailed using Unified Modelling Language (UML). The result of each prototype will be evaluated by the user, if the prototype approved by the user, then it will be released as a system. This application was developed using CodeIgniter framework and MySql as the database.

The purpose of this study is to build a scrum base electronic project management application to increase project implementation productivity. Application has been tested uing blackbox testing method to ensure the application produces an acceptable output by the user.

Keyword: Project management, Scrum, Prototyping Method.