Abstract

Automation is something that should be implemented by a company working on a large project consisting of two or more people in developing their application[1]. Without automation, making code changes even though it is small will take a lot of time and money, of course[5]. Automation using the continuous deployment method and the Jenkins, Docker application and applying the monolithic repository principle will help a lot in the application of automation. This final project focuses on development and integration using the continuous deployment method and monolithic repository as well as using Jenkins and Docker tools in the process. The application of the continuous deployment method and monolithic repository uses jenkins to facilitate integration because jenkins is open source and has many plug-in options. docker itself acts as a container to place all application integration and deployment needs. The existence of an automation system is a form of saving resources such as time and easier use. So integration and deployment using jenkins and docker we can save a lot of time and also if there are changes to the code we don't need re-integration and can be changed easily[1].