

## ABSTRACT

In this report, we will discuss CI/CD implementation in E-RBA projects. The purpose of this CI/CD implementation is to accelerate E-RBA development, ensure the consistency and quality of the software produced, and reduce the risk of errors in the development process. CI/CD implementation in this project involved several stages, including: CI/CD infrastructure development, CI/CD workflow development, and automated delivery. The built CI/CD infrastructure consists of several tools, such as GitlabCI, Git, Docker, and Kubernetes. In addition, CI/CD workflows are also built using the Continuous Integration and Continuous Delivery approaches. In the automated delivery stage, the software is delivered to a production environment using Docker and Kubernetes. The results of CI/CD implementation in this project are faster and more efficient software delivery, more consistent and reliable software quality, and the ability to make changes to the software more quickly and easily. In addition, CI/CD implementation also allows the E-RBA development team to focus more on developing high quality software. However, CI/CD implementation also had several challenges that the development team had to overcome, such as complexity in configuring and setting up CI/CD tools, poor automated testing, and changes in the software development culture within the team. The conclusion of this report is that CI/CD implementation in E-RBA projects can provide significant results, such as faster and more efficient software delivery, more consistent and reliable software quality, and the ability to make changes to the software more quickly. fast and easy. However, CI/CD implementation also requires changes to the software development culture within the team, as well as addressing various technical challenges that may arise during the implementation process.

**Keyword:** CI/CD, Tabel Data Informatika, E-RBA