

Abstract

The Barbercome application is a mobile application focused on user experience and aims to facilitate users (customers, barbers, barbershops) with various features provided. The Barbercome team consists of IT and non-technical stakeholders (product owner, marketing teams, and design teams). Because most of the stakeholder and product owner of Barbercome team have a non-technical background, they need something that can help them in understanding the flow of features inside Barbercome application. To ensure the application meets user needs and the request of the product owner, this study adopts the Behavior-Driven Development (BDD) testing method. BDD is a method that focuses on describing application behavior in natural language and also allows good collaboration between the IT team, product owner, marketing team, and design team in the testing process. This study uses Appium Cucumber as a testing tool for mobile applications on Android and iOS, which is well integrated with the Flutter framework used as the framework for the Barbercome application. Testing result off BDD using Appium Cucumber on the Barbercome application showed 37 passed scenarios and 1 failed scenario. The failed one was due to Appium's limitations in identifying the element path. However, by updating the path and ensure the path matches with the element's value, the testing process would be successful without issues. This shows that the implementation of BDD in the Barbercome application was successful.

Keywords: BDD, appium, cucumber, flutter.