

ABSTRACT

Fintech (Financial Technology) is a technology used in world finance to increase the efficiency and ease of financial transactions. One of the popular fintech that is often used by the public today is quite diverse, including e-wallet. However, the current use of fintech applications is still limited to certain user demographics because not all utilities meet the needs of all types of users, including those with visual impairments. Current e-wallet application users, especially those with visual impairments, are still constrained by long application flows, difficulty using gestures in applications, and the use of pictorial information that screen readers cannot read, thus hindering the transaction process on the application.

To solve these problems, adjustments and modifications are needed to the existing e-wallet application. In the application development process, of course, the role of a backend developer is needed to design and maintain the data processing mechanism in the application. To assist the development process, an agile approach is used with the Extreme Programming method. The backend system is tested for reliability with 400 real-time API requests in 1 minute. Of the 20 APIs developed, 6 main features were tested with a success rate of 94.14%. The Top-Up feature has a success rate of 99.52% and the payment feature has a success rate of 99.88%.

Keywords: Fintech, E-Wallet, Extreme Programming, API, Visual Impairment