Banana Talent Web Application Testing

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Abtract

This is a report about cooperative education, where the author was assigned to test the web application “Banana Talent”. This web application was developed to record employee and project data within the company and to access data efficiently. The aim of web application testing is to ensure that the system functionality is correct and meets the user requirements.

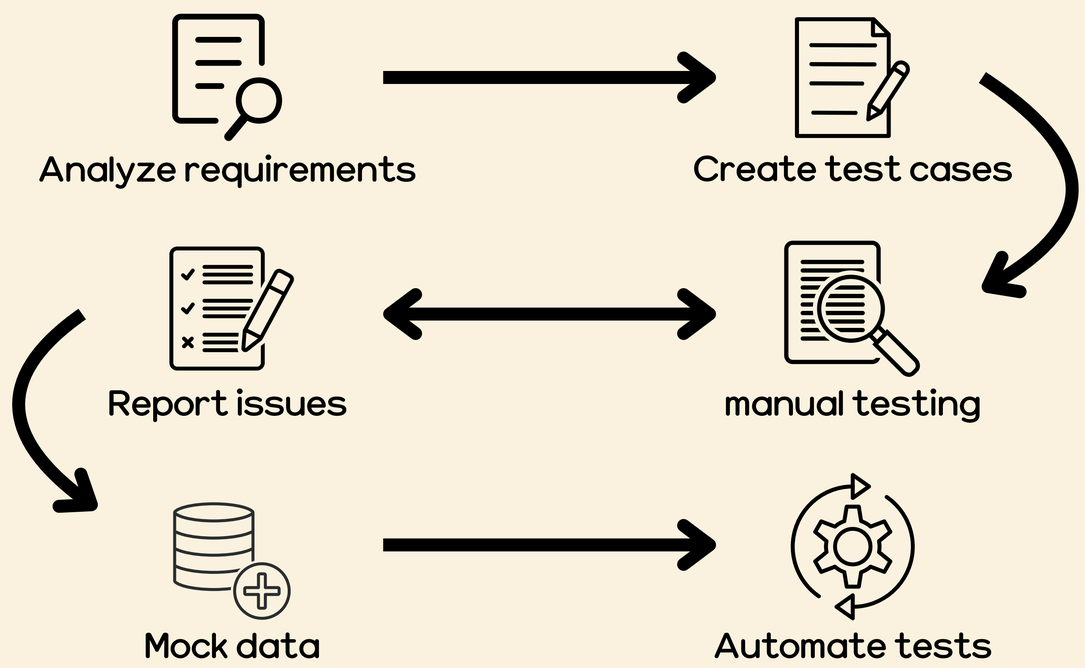
The author's responsibilities include designing test cases, executing manual tests, and performing automated tests. The test cases were organized into six modules: Login, Dashboard, Project Management, Employee List, Master Data, and My Profile. Once the test cases have been prepared, the author will manually test the product and report any defect to developers for correction, and the test results will be summarized after each test. Once a module is ready for automated testing, the author will write automated testing scripts to reduce testing time and minimize human errors. After all test cases, which the author responsible for the Talent Banana web application has accomplished, the testing result meets the project manager's requirements.

Introduction

Banana Coding Co., Ltd. manages numerous client projects and employs many staff members within the company. To streamline data management, it developed the Banana Talent web application to efficiently record employee information and project details in one centralized system.

The objective of this research is to test the Banana Talent web application to ensure its functionality, accuracy, and efficiency. This includes identifying and resolving system errors, verifying that features meet user requirements, and improving overall performance through both manual and automated testing methods.

Methodology



Technology

Microsoft Teams
Azure DevOps
Google Sheet
New Banana Testing
Cypress.io

Result

A total of 409 test cases were created for the Banana Talent web application. During manual testing, it was observed that some bugs occurred randomly and were difficult to reproduce, making it challenging to ensure complete coverage in every test step. After manual execution, all defects were reported to the development team for resolution.

For automated testing, test scripts were developed based on the test cases, reducing redundant test executions and minimizing human errors. The test cases were refined to combine or simplify certain tests, leading to fewer automated test cases than manual ones. However, occasional flaky tests can cause the test script to fail from time to time.

References

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