

CQDB - Test Strategy

Introduction

Coding Questions Database is a cloud-based platform that provides Algorithm and Design system questions. This platform was developed using Java as language, Spring as framework and deployed to AWS (Amazon Cloud).

This document describes the strategy adopted to test the entire system. The aim is to ensure quality in all phases of the development lifecycle.

QA Deliverables

- Test plans for each feature
- Issues reported for bugs, enhancements, usability suggestions
- Release process document

Scope of Testing

- Unit tests, 70% coverage
- Automated acceptance tests are written using BDD testing tool Cucumber
- Performance tests to stress the environment and check the output threshold. These tests will be conducted with DevOps team supervision
- Automated UI tests for high-level workflows focused on business rules in order to deliver value to customers. We will use Selenium for this purpose

References

- GitHub project: <https://github.com/katlinsantos>
- Unit tests using JUnit: <https://junit.org/junit5/>
- UI testing using Selenium: <https://www.selenium.dev/>
- Behavior-driven development (BDD) testing using Cucumber: <https://cucumber.io/>
- API performance testing using Postman: <https://www.postman.com/>