

OleNotes

Test Plan Document

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Introduction

This testing plan establishes the procedures by which the OleNotes project will be handling the testing. The test plan will also validate the functionality and performance of the Ole Notes, ensuring it meets all user requirements outlined in the project documentation.

Test Items

Testing will cover user authentication, note uploading, downloading, and searching functionalities, as well as overall system performance, security, and usability.

Features Not To Be Tested:

i. Login with Google Authentication System

Features To Be Tested:

1.Account Creation

Approach: Unit Testing

Item Pass Criteria: After the required information is supplied to the database, the new user can log into the system.

2.Adding/Uploading Notes

Approach: Unit Testing

Item Pass Criteria: When correct information is passed through the test, new notes should be able to be added into the system being in the right class.

3.Downloading Notes

Approach: Unit Testing

Item Fail Criteria: Whenever a note has been deleted or not added to the database, the user will still be able to download the notes.

Test Deliverables

Unit Testing: Each module (user login, note upload, download, search function) will be tested independently to ensure they perform as expected.

Integration Testing: Test the interaction between modules to ensure the system operates cohesively.

System Testing: Validate the complete and integrated software against the requirements.

Environmental Needs

Hardware: Server (Turing) to host the application and databases

Software: Devices with internet connection and browsers access (chrome,firefox,safari,edge,etc.)

Tools: Automated testing tools (Selenium) for load testing and regression testing from respective development teams

Responsibilities

Front-End Development Team: Develop the user interface and experience, ensuring accessibility, aesthetics, and responsiveness across devices and platforms

Back-End Development Team: Establishing an appropriate database to store information about different elements regarding the project, and guaranteeing a connection between the interface and the information.

Schedule

Specific testing milestones and timelines will be aligned with the project schedule and respective development teams' goal for a specific sprint.

Some Testing Milestones(in no particular order)

Functional Tests: Conduct tests for each function described in the user stories, such as note uploading, downloading, and searching. (Automated Testing/Alpha Testing/Regression Testing)

Security Tests: Test for mySQL injections and other common security vulnerabilities.(Alpha Testing/Unit Testing)

Usability Tests:Testing sessions to collect feedback on UI (User Interface)

Performance Tests: Stress tests and load tests to determine the system's behavior under peak loads.(Automated Testing)

Risks And Contingencies

Risk: Inadequate test coverage.

Contingencies: Use automated tools (Selenium) to ensure all paths are tested.

Risk: High defect rates in late testing phases.

Contingencies: Implement continuous integration and continuous deployment to catch issues early.

Approvals:

This testing plan requires approval from the developers and the professor before any implementation is done. We will document any changes to the plan and communicate them as necessary.