

StudyBuddy

Planning: Master Test Plan

Instruction

This document is used to define the details of the master test plan. Once the test plan is outlined, the document must be reviewed and approved by the lead technical representative on the project as well as the lead business representative on the project. If anything related to the test plan changes during the execution and testing phase of the project, this document should be updated and re-approved by both parties.

Test Scope

The test plan will test all the requirements for the system StudyBuddy for release 1.1 detailed in the System Request Specifications document. The Master Test Plan covers unit, integration, user acceptance, and regression testing, which are all carried out by the development team of this project. It will not include user certification testing, which will be performed later by an external vendor.

Test Features

The following list outlines the features that will be tested within the scope of the test plan as well as the groups involved with the respective testing activities.

<u>BR #</u>	<u>Feature</u>	<u>Responsible party or groups</u>
1	Authentication (Google OAuth)	IT
3	Matching Students	IT
4	Active Chat Room	IT
5	To-do List	IT
6	Pomodoro Timer	IT

Test Inputs/Outputs

<u>Inputs</u>	<u>Outputs</u>
Business Requirement Specifications	Test Results

Test Strategy

<u>Test Type</u>	<u>Description</u>	<u>Comment</u>
Unit Testing	<i>This type tests each individual component of the system separately.</i>	The following features will be tested by the development team individually at the time of creation: Active Chat Room, To-do list, Pomodoro Time
Integration Test	<i>This type tests all changed functionality end to end.</i>	Once the individual units are created and tested, they will be integrated

		within the larger website and tested by the development team.
User Acceptance Test	<i>Typically performed by Business User, this tests all changed functionality of a system from the end-user perspective.</i>	This will be performed in the last stage by the development team.
Regression Test	<i>This tests the entire system to ensure that any untouched functionality did not get adversely impacted by the project-related work.</i>	This will be performed after integration of front and end back end and when
User Certification Test	<i>This test is performed after the solution has been moved to production to insure it has been moved successfully.</i>	This will be performed later by an external vendor

Test Environment (tools, system, databases)

This is a list of the testing tools, systems, and databases.

Example:

<u>Tools</u>	<u>Description</u>	<u>Version</u>
VS Code	Source Code Editor	1.67
GitHub	Version Control System	3.4.2
Heroku	Cloud Application Platform	7.0
Manual input	Manual entry of data onto screen or gui.	n/a
<u>System</u>		
Test System	Personal Devices	MacOS
PC Lab	N/A	

Test Roles and Responsibilities

This is a list of the testing roles and responsibilities.

<u>Resource</u>	<u>Role</u>	<u>Responsibility</u>
Avani Tiwari, NYUAD	Test Manager, Tester	<ul style="list-style-type: none"> Provides technical direction. Assigns tasks to testing resources. Executes test cases and documents test results.

Himanshi Lalwani, NYUAD	Test Designer	<ul style="list-style-type: none"> Documents test plan. Identifies, documents and prioritizes test cases. Evaluates effectiveness of test effort.
Jun Ooi, NYUAD	Test Designer, Test System Administrator	<ul style="list-style-type: none"> Documents test plan. Identifies, documents and prioritizes test cases. Evaluates effectiveness of test effort. Ensures the test environment and assets are installed, managed and maintained.
Tuqa Abdelnasir, NYUAD	Tester	<ul style="list-style-type: none"> Executes test cases and documents test results.

Test Milestones

This is a list of the critical test milestone dates. Be sure to include these dates in the overall project plan.

Example:

<u>Task</u>	<u>Milestone Date</u>
Complete Unit Testing	28/04/22
Complete Integration Testing	30/04/22
Complete User Acceptance Testing	01/05/22
Complete Regression Testing	04/05/05

Document Approval

The signatures below acknowledge that the test plan outlined above is complete and accurate. Upon receiving written approval, the project team will proceed to the next step of the project.

If anything changes during the execution of the project, the test plan will be updated and re-approved accordingly.

Approved by: Printed name	Approved by: Title	Approved By: Signature/Date
Avani Tiwari	Test Manager	Avani Tiwari

Document Tracking

Date	Action Taken	By Whom
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21/04/22	Assign Roles	Avani Tiwari
05/05/22	Final Edits	Avani Tiwari