LearnHub Test Plan

Objective:

1. To provide a standardised procedure to allow for systematic and productive testing and debugging sessions
2. To ensure that bugs are found, reported to the team and documented in the bug metrics before the end of each sprint
3. To maintain and review project schedule accordingly based on bug metric and to assess the impact on the project given the presence of bugs.
4. To note the type and severity of bugs encountered so that group can carry out mitigation plans as needed, while taking extra effort to minimise the occurrence of such bugs in future
5. To ensure that the system is compatible on multiple platforms such as various mobile devices and web browsers
6. To ensure that performance and security of the system is tested and reported to the team if there are any issues

Requirements:

1. Desktop Computer / Laptop
    a. Latest version of Google Chrome, Safari and Internet Explorer installed
    b. Display resolution of 1920x1080 (1080p FullHD)
2. Android Phone
3. iPhone
4. List of test cases provided by the team's QA (Rafid)

Generation of Test Cases:

Test cases for the various functionalities are created and will be tested against required functionalities. These test cases will contain detailed test inputs as an easy reference for testers (not just the QA) to carry out their testing duties.

At the start of each sprint, the QA (Rafid) will create the test cases for the functions that will be developed during that particular sprint. For example, if the login function will be developed in sprint 2, the QA will write the test cases for the login function at the start of sprint 2.

Non-functional test cases pertaining to security, performance and compatibility will also be created.

Testing and Regression Testing

Testing and regression testing will be done near the end of each sprint, while still allowing time for debugging sessions to take place over the weekend. One day is scheduled for testing of the completed functions for the sprint and one more day is

scheduled for regression testing. If time permits, testing and regression testing could also be done within one day. Any bugs found during these two testing days will be reported to the team and logged into the bug metrics.

Testing will be conducted primarily by the QA while the PM may choose to test the system whenever she feels the need to.

Debugging

The bugs that are found during testing will be reported to the team and also assigned to the appropriate members to fix. Debugging will then be carried out over the weekends. Once members have debugged the bugs, the QA will be notified and will test the fixed functionalities again. If bugs still exist, the appropriate members will have to debug again and inform the QA when they are done. If the bugs can't be fixed in time, the PM and QA will have to review the current bug score and determine if the bugs can wait to be fixed in the next sprint's debugging session or not.

Testing Schedule

Sprint	**Functionality**
1.	Requirement gathering, exploring of software and ideation period so no testing of functionality.
2.	Training Request Form (TRF) Module: - Individual Approval Workflow Routing Login + Logout - Staff - Admin
3.	Training Request Form (TRF) Module: - Group Approval Workflow Routing
4.	Major change requirement by client so this sprint was dedicated to researching and learning how to build an AI bot.
5	AI Chat Bot: - Queries related to training and courses Course Module: - Create Course - View Course - Upload + Download Course Materials - Search Course - Create testimonial - Delete testimonial
6	AI Configuration Pages:

	- CRUD Answers - CRUD Intents - CRUD Help Questions - CRUD Initialization Messages User Module: - Create Users - Read Users - Update Users - Disable Users
7	Quiz Module: - Create Quiz - Quiz Timer Account Module: - View User Account Information - Update User Account Information - Change Password
8	Quiz Module: - Mark Quiz - Generate Quiz Results - View Quiz Results
9	FAQ Module: - Upload FAQ Documents - Manage Documents Transcript Module: - Generate Progress Report Card - View Progress Report Card
10	Audit Module: - Log Backlogs - View Backlogs
11	Analytics Module: - View Trends Dashboard
12	UAT: - User training - User testing
13	Buffer sprint