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## **Group 9 - The Hand**

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### **Wellib Test Plan**

**Version <1.1>**

Wellib	Version: 1.1
Test Plan	Date: 21/Aug/23

## Revision History

Date	Version	Description	Author
21/Aug/23	1.1	First version of test plan	Nguyễn Lê Hoàng Kha

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# Test Plan

## 1. Introduction

### 1.1 Purpose

- The main objectives of this document are to define the testing strategy, scope, resources, and methodologies for testing the software application. It outlines the specific test objectives, test scenarios, and test cases to be executed. Additionally, the document describes the roles and responsibilities of the testing team, the schedule for testing activities, and the criteria for determining the success of the testing phase.
- This document provides a comprehensive overview of the testing process, including the types of testing to be conducted (such as functional, performance, security, and usability testing), the testing environment, and the tools to be used for test automation and reporting. It details the test data, test environments, and any special considerations required for successful testing. Moreover, it addresses potential risks and mitigation strategies, ensuring that potential issues are identified and managed effectively.
- This document is intended to be used by various stakeholders, including the development team, quality assurance team, project managers, and other project-related personnel. It provides a common reference point for understanding the testing approach and helps stakeholders align their efforts and expectations.

## 2. Target Test Items

- In this section, we identify the software items, features, and areas that are the focus of our testing efforts. The list includes both functional and usability aspects that need to be thoroughly validated.

### 2.1 Manage elements of models

- Test Objectives: validate the accuracy and reliability of managing model elements.
- Testing Scope:
  - + Creation of new model elements.
  - + Editing existing model elements.
  - + Deletion of model elements.
- Usability Focus: Intuitive user interface for element management.
- Test Approach: manual testing
- Priority: High

### 2.2 Manage requests book

- Test Objectives: verify the seamless flow of managing book requests.
- Testing Scope:
  - + Approving and rejecting requests.
  - + Tracking request status.
- Usability Focus: ease of managing book requests.
- Test Approach: manual testing
- Priority: high

### 2.3 Manage request reader account

- Test Objectives: verify the seamless flow of managing reader account requests.
- Testing Scope:
  - + Approving and rejecting requests.
  - + Tracking request status.
- Usability Focus: ease of managing reader account requests.
- Test Approach: manual testing
- Priority: high

### 2.4 Request books

- Test Objectives: ensure that librarians can request books seamlessly.
- Testing Scope:
  - + Placing book requests.

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- + Tracking request status.
- Usability Focus: smooth request process.
- Test Approach: manual and usability testing.
- Priority: high

## 2.5 Manage loans

- Test Objectives: verify the accuracy and completeness of loan transactions.
- Testing Scope:
  - + Issuing loaned books.
  - + Returning books.
  - + Renewing books.
- Usability Focus: clear communication of loan terms and accurate transaction processing.
- Test Approach: manual testing.
- Priority: high

## 3. Environmental Needs

### 3.1 Hardware Requirements

- This section details the hardware configurations and setups required to conduct thorough testing of the software application.
- Operating System: Windows 11 (64-bit)
- Hardware:
  - + Minimum Requirements:
    - Processor: Intel Core i3 or equivalent
    - RAM: 4 GB
    - Storage: 128 GB SSD or HDD
  - + Recommended Requirements:
    - Processor: Intel Core i5 or equivalent
    - RAM: 8 GB
    - Storage: 256 GB SSD
- Browsers:
  - + Google Chrome (latest version)
  - + Microsoft Edge (latest version)

### 3.2 Software in the Test Environment

The following base software elements are required in the test environment for this *Test Plan*.

Software Name	Purpose	Version	Type and Other Notes
Windows 10, 64 bit	OS for test execution	10	Operating System
Google Chrome	Web browser for testing web application	Latest	Web Browser
Microsoft Edge	Web browser for testing web application	Latest	Web Browser

### 3.3 Productivity and Support Tools

The following tools will be employed to support the test process for this *Test Plan*.

Tool Category or Type	Tool Brand Name	Vendor or In-house	Version
Defect Tracking	MS Excel	Vendor	Latest

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Tool Category or Type	Tool Brand Name	Vendor or In-house	Version
Defect Reporting	MS Word	Vendor	Latest
Communication and Messaging	Slack	Vendor	Latest
Version Control and Repository	Git	Open Source	Latest
IDE for coding and testing	Visual Studio Code	Vendor	Latest
Bug Tracking and Issue Management	Jira	Vendor	Latest

## 4. Responsibilities, Staffing, and Training Needs

### 4.1 People and Roles

This table shows the staffing assumptions for the test effort.

Human Resources		
Role	Minimum Resources Recommended (number of full-time roles allocated)	Specific Responsibilities or Comments
Test Manager		Provides management oversight. Responsibilities include: <ul style="list-style-type: none"> <li>planning and logistics</li> <li>agree mission</li> <li>identify motivators</li> <li>acquire appropriate resources</li> <li>present management reporting</li> <li>advocate the interests of test</li> <li>evaluate effectiveness of test effort</li> </ul>
Tester	Nguyễn Lê Hoàng Kha Phạm Gia Tuấn Khải Nguyễn Tuấn Tuấn	Implements and executes the tests. Responsibilities include: <ul style="list-style-type: none"> <li>implement tests and test suites</li> <li>execute test suites</li> <li>log results</li> <li>analyze and recover from test failures</li> <li>document incidents</li> </ul>

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Human Resources		
Role	Minimum Resources Recommended (number of full-time roles allocated)	Specific Responsibilities or Comments
Test System Administrator		<p>Ensures the test environment and assets are managed and maintained.</p> <p>Responsibilities include:</p> <ul style="list-style-type: none"> <li>• administer test management system</li> <li>• install and support access to, and recovery of, test environment configurations and test labs</li> </ul>