

Lou Geh Library System – Test Plan

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1. Introduction

The test plan is designed to define the scope, approach, resources, and schedule for all testing activities of the Lou Geh Library System.

The plan identifies the items to be tested, features to be tested, the types of testing to be performed, the teams involved in testing, and the resources and schedule required to complete the testing.

1.1 Scope

1.1.1 In Scope

The following are the features and functions of the Lou Geh Library System that should be tested.

Module Name	Applicable Roles	Description
Book Entry	Admin	Admin: An admin can add new books into the system
Book Update	Admin	Admin: An admin can update book details and information
Remove Book	Admin	Admin: An admin can remove books from the system
Borrow Records	Admin User	Admin: can view all borrowed book records User: A user can only view his records history
Borrow Records Update	Admin	Admin: An admin can update borrowed book records
Remove Borrow Records	Admin	Admin: An admin can remove records
New Book Copy	Admin	Admin: An admin can add copies of book into the system
Remove Book Copy	Admin	Admin: An admin can remove book copies from the system
Publisher Entry	Admin	Admin: An admin can add new publishers
Publisher Update	Admin	Admin: An admin can update publishers' information
Remove Publisher	Admin	Admin: An admin can remove publishers on the system
Category Entry	Admin	Admin: An admin can add new book categories
Category Update	Admin	Admin: An admin can update a book category
Remove Category	Admin	Admin: An admin can remove a book category
New Account Registration	Admin	Currently System Provides 2 types of accounts. <ul style="list-style-type: none">• Reader• Admin A reader can only access their own borrowed records.

		Admin: An Admin can add new account and designate the account types.
Update User	Admin	Admin: An admin can update user details
Remove User	Admin	Admin: An admin can remove users from the system

1.1.2 Out of Scope

The following are the features and aspects that are not being tested because the test plan focuses on the software functionalities of the system.

1.2 Quality Objective

The test objectives are to verify the functionality of the Lou Geh Library System. The project should focus on testing core operations such as book entry, borrow records, new account registrations, etc., to ensure that these operations work normally when deployed in a real-world environment.

1.3 Roles and Responsibilities

To minimize project costs, the use of in-house team members as testers is recommended.

No.	Member	Task
1.	Applications Lead	Manage the whole project Define project directions Acquire appropriate resources
2.	Tester Administrator	Manages and Instructs tester on test approach
3.	Tester	Executes test, Log results, Reports the bugs and issues
4.	Test Developer	Fixes flagged issues in order of priority
5.	QA Members	Take charge in quality assurance Check to confirm whether testing process meets the specified requirements

2. Test Methodology

2.1 Overview

2.2 Test Levels

In the Lou Geh Library System, two types of testing should be conducted.

- **Integration** Testing: Individual software modules are tested as a group to ensure smooth and normal operations between modules.
- **System** Testing: This should be conducted to ensure overall operability of the system across various devices and different web browsers applications.

2.3 Bug Flagging and Fix

2.4 Suspension Criteria & Resumption Requirements

- If the tester members report that more than 45% of test cases have failed, testing should be suspended until the development team addresses and fixes all the failed cases.

2.5 Suspension Criteria & Resumption Requirements

- **Operability** and **run rate** are mandatory to be at **100%** unless there are major bug and issues before deployment.

- **Passing rate** is **80%**, achieving pass rate is mandatory to further continue development.

2.6 Project task and estimation schedule

Task	Members	Estimate Effort
Create test specification	Applications Lead	180 man-hours
Perform Test Execution	Tester/ Test Administrator	80 man-hours
Test Report	Tester	15 man-hours
Test Delivery		25 man-hours
Total		300 man-hours

3. Test Deliverables

Before Testing

- Test plans Document
- Test cases Documents
- Test design Specifications

During Testing

- Test Tools
- Test Data
- Test Trace-Ability Matrix
- Error logs and Execution Logs

After the testing cycles is over

- Test Results/Reports
- Defect Report
- Installation/Test Procedure Guidelines
- Release Notes

4. Resource & Environment

4.1 Testing Tools

No.	Resources	Descriptions
1.	Server	Needs a Database server to store system data Web server
2.	Test tool	Develop a test to auto generate and record test results
3.	Network	Setup a wireless network with speed at least 5 Mb/s
4.	Computer	At least 3 computer that runs Windows 10 or Latest, 4GB Ram, at least i3 or equivalent.