

Test Plan

for

Furniture Rental Store System

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1 Test Plan Identifier

For the FRSS application version 1.0, this paper specifies the framework and technique that must be utilised for GUI and backend testing.

2 References

Documents that support this test plan include:

- Software Requirements Specification
- Use Case diagrams
- Class Diagrams
- Test Suite

3 Introduction

The following are the goals of our GUI application testing process:

1. Determine and specify the tools that will be utilised throughout the project.
2. Specify how the testing will be carried out.

4 Test Items

The testing procedure may be broken down into two categories:

1. Using Unit Test APIs, test the application's backend.
2. Manually test the GUI frontend in accordance with the test suites. Both Windows and Linux-based systems will be used to test them.

5 Features to be Tested

1. As a user:

- 1.1 Logging In
- 1.2 Create an account
- 1.3 Logging Out

2. As a client:

- 2.1 Looking for a piece of furniture

- 2.2 Purchasing a thing on a rental basis.
- 2.3 Taking out a loan to purchase an item.
- 2.4 Returning a product.
- 2.5 Viewing and paying the outstanding balance.
- 2.6 Looking through the history of previous orders.
- 2.7 Looking through the catalogue to see what's available.

3. As an administrator:

- 3.1 Registering as a customer.
- 3.2 Getting rid of a customer's account.
- 3.3 Keeping an eye on the alerts.
- 3.4 Examining the profit and investment.
- 3.5 Changing any item's price.
- 3.6 Returns verification
- 3.7 Adding to the inventory of new furnishings

6 Features Not to be Tested

Every effort has been made to guarantee that every function or feature of the code has been thoroughly tested via numerous unit tests and final integration testing. No feature should be left untested.

7 Approach (Strategy)

All of the test cases created in Test Suite will be put to the test. Manual verification of the tests is required for the frontend. The testers will grade each test as pass/fail based on how closely it matches the golden output. When a test fails, the problem reports are recorded, and bug remedies are suggested. After the report is finished, it is analysed and bug corrections are performed. The entire procedure is repeated until 100 percent accuracy is achieved (to guarantee that no new flaws have been introduced).

8 Pass/Fail

For the two divisions of our test plan, the conditions that must be completed are different. We may think about the following at the Unit Test level:

1. If all test cases passed with flying colours, i.e., their output matched the golden output.
2. If all of the methods associated with a certain class have been thoroughly tested.

The following are the prerequisites for front end testing:

1. The visual result is identical to what was intended.
2. All of the tools and buttons on all of the windows have been thoroughly tested.

The test is marked unsuccessful if any of the prerequisites are not satisfied.

9 Suspension criteria and resumption

The tests are halted and the codebase is worked on if the code fails two or more tests. Resumption of test sets will be done after exhaustively running unit tests on the refactored source.

10 Software risk Issues

There are several inherent software dangers such as such as :

- Database Crashes given by MySQL.
- MySQL's support has come to an end.
- Changes to the tkinter library, which may no longer support some older features.
- Some functions are complicated, and they may disrupt the program's typical flow

11 Environmental Needs

There are numerous environmental requirements that must be met:

- It is necessary to have access to the databases or master tables.
- The test.py file, which contains the test routines, should execute at the same time.
- To guarantee that all aspects of the product are tested, the databases must be loaded with a range of items.

12 Schedule

Before the final completion of the codebase, the first set of tests will be performed every day for a week. A last set of tests will be run 12 hours before the code is submitted to confirm that no errors remain.

13 Planning Risks and Contingent

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14 Glossary

FRSS : Furniture Rental Store System
API : Application Programming Interface
GUI : Graphical User Interface
SQL : Structured Query Language