

Software Test Plan

For E-Library Management System

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Introduction

The aim of the system testing process was to determine all defects in our project. The program was subjected to a set of test inputs and various observations were made and based on these observations it will be decided whether the program behaves as expected or not.

Our Project went through two levels of testing-

1. Unit testing
2. Integration testing

Unit Testing

Unit testing is undertaken when a module has been created and successfully reviewed. In order to test a single module, we need to provide a complete environment i.e. besides the module we would require

- The procedures belonging to other modules that the module under test calls
- Non-local data structures that module accesses
- A procedure to call the functions of the module under test with appropriate parameter

Test For the admin module

- Testing admin login form- This form is used for log-in of the administrator of the system.

In this we enter the username and password if both are correct administration page will

open otherwise if any of the data is wrong it will get redirected back to the login page

and again ask for username and password

- Student account addition- In this section, the admin can verify student details from student academic info and then only add student details to the main library database it

contains add and delete buttons if the user click add button data will be added to the student database and if he clicks delete button the student data will be deleted

- Book Addition- Admin can enter details of the book and can add the details to the main book table also he can view the book's requests.

Test for Student login module

- Test for Student login Form-This form is used for the log-in of students. In this, we enter the library id, username, and password, if all these are correct student login page, will open otherwise if any of the data is wrong it will get redirected back to the login page and again ask for the library, username, and password.

- Test for account creation- This form is used for new account creation when a student does not fill the form completely it asks again to fill the whole form when he fills the form fully it gets redirected to a page which shows waiting for confirmation message as his data will be only added by the administrator after verification.

Test for teacher login module

Test for teacher login form- This form is used for logging in of teachers. In this we enter

the username and password if all these are correct teacher login page will open otherwise if any of the data is wrong it will get redirected back to the login page and again ask for username and password.

Integration Testing

In this type of testing, we test various integration of the project module by providing the input .

The primary objective is to test the module interfaces in order to ensure that no errors are occurring when one module invokes the other module.