Software Engineering Report

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Perform Testing on the developed project to improve the quality.

5. SOFTWARE TESTING

1. **Test plan**:

    1. **Student/ Faculty Login:**

        Test case name: student/faculty login

        Test Case id: 1

        Unit to test: student/faculty login

        Assumption: Login

        Test data: Username : {valid,invalid,empty,valid email,Invalid email}
        Password : {valid,invalid,empty}

        Steps to be executed:
        - Open login page
        - Fill username, password and verification box
        - Click on the login button

        Expected value:
        - Student/faculty portal should be displayed
        - Further functionalities should be appeared

        Actual result:
        - Student/faculty portal displayed
        - Further functionalities displayed

        Pass/Fail:
        Pass

        Comments: No updation needed

    2. : **Librarian Login:**

        Test case name: librarian login

        Test Case id: 2

        Unit to test: librarian login

        Assumption: Login

        Test data: Username: {valid, invalid, empty}
        Password: {valid, invalid, empty}

Steps to be executed:
- Open librarian login page
- Fill username, password and verification box
- Click on the login button

Expected value:
- librarian portal should be displayed
- Further functionalities should be appeared

Actual result:
- librarian portal displayed
- Further functionalities displayed

Pass/Fail:
  Pass

Comments: No updation needed

3. **Book Issue:**

   Test case name: Book Issue

   Test Case id: 3

   Unit to test: Book Issue

   Assumption: Book has to be issued

   Test data: Book: {ISBN Number}
              Student : {Student id}

   Steps to be executed:
   - Open librarian login page
   - Fill username, password and verification box
   - Click on the login button
   - Click on issue book functionality
   - Fill ISBN number
   - Also fill the student id to whom you are issuing the book
   - Click on issue button

   Expected value:
   - Book Should be issued to the student with respective student id

   Actual result:
   - Book has been Successfully issued

   Pass/Fail: Pass

Comments: No updation needed

4. **User Profile Creation**:

   Test case name: User Profile

   Test Case id: 4

   Unit to test: Profile creation

   Assumption: New user profile has to be created/ registered

   Test data: User data: {Name, Mobile Number, Gmail}
                   Password

   Steps to be executed:
   - Open User Signup page
   - Fill name, password, Mobile Number, Gmail and verification box
   - Click on create account

   Expected value:
   - "Invalid user details and please re-enter the details correctly" a pop should appear on the top.

   Actual result:
   - New user account has been created and a student id is displayed.

   Pass/Fail: Fail

   Comments: At the time of user registration every field should be checked and

   details should be entered clearly

Test case Id	Test Case Name	Pass/Fail	Comment
1	Student/Faculty login	Pass	-
2	Librarian login	Pass	-
3	Book issue	Pass	-
4	User Profile Creation	Fail	At the time of user registration every field should be checked and details should be entered clearly.