Testing Report
Library Management

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Introduction

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Project Information

Generic Library System

As the project name suggests automation in which the human input can be minimised and makes the work of librarian a lot easier and experience of the user a lot simpler. This has some new features like requesting books from other students, buying books from catalogue, if available for sale and reviewing and rating books and feedback of experience etc. We can also track the history of users (books the user has taken before and now). It makes library users and librarians work very simpler and easier.

We have used Django, Mysql which makes this project more presentable and makes it more error free .

Purpose

The purpose of the proposed system is to provide an uncomplicated, trouble-free environment to the respective users.
It reduces the manual work being done in the current system.
Make functionalities more error-free and explicit.
Make information more precise and reliable.

Test Objectives

1. **Try to get correct results in the Registration Form.**

   They have to enter a minimum 10 digits phone number and 12 digits Aadhar number with an e-mail id which should be unique.

   Users have to upload their photos.

2. **Making users create stronger passwords.**

   We have facilitated our users to create Stronger Passwords by the combination of

   Uppercase, lowercase numbers and special characters. Henceforth, it will make their

    The account is more secure and private.

3. **Validating Registration form by performing some checks.**

   Checking that entered Aadhar, phone number , email is Already present in the database . if present the system will print it as "already present please login through existing details".

4. **Automatically sending emails after their registration.**

   Once the user has registered his details. He will automatically receive an email with his username and password. And thereafter he can login in his account.

5. **If a user forgets a password he can get it through email.**

    User will receive the password in case he/she forgets his password. It is the librarian's job to send the changed-password to email it.

6. **Maintaining record for buying and selling books.**

We have added a new feature where users can buy and sell books. The records are maintained in the databases in a very effective and efficient manner. It would facilitate our users with an extra feature.

Test Summary

Here we are using try and fix methodology initially , In registration form getting Users data and performing some checks before admin . some work is reduced for the admin. This is achieved by if else conditions. Here we are making stronger passwords.these functions are achieved by testing some test cases. And made all those test cases possible and fixed any irregularities.I if any page doesn't exist we will say that some error page to be shown.Here Maintain record of book history table has to be implemented fully now it is implemented partially..

Here we are developing a try and fix methodology so the pass percentage is more. And test cases were very less.

Defect

1. Logical Bug (Resolved)

- While testing we found a bug in accounts section which includes account validation,

  The bug is regarding authenticating the user when logged in across all pages.

2. Schema Defect (Resolved)

- We faced problems during creation of schema (especially Tables)

  The bug was that one of the column data types of the table was incorrect.

3. Redirecting Page-Not-Found error (Yet to be Resolved)

- If we are searching for a non-existent page, it should redirect to a 404 page not found but it is not directing that is yet to be fixed.

4. Data Redundancy (Partially Resolved)

- Data is overwritten many times in the database.tried about overwriting as many times as possible.

5. Duplicate URL names (Resolved)

- Here we are using dynamic urls by django. And not resolved fully because some pages in buying and selling we have not solved yet.

6. HardCoded Static assets (Resolved).

- According to the user request we are fetching static files from the databases.