

---

---

# Library Management System

Group Members :  
Tanmay Rajgor ( 2827074 )

---

# Technology Used :

- HTML
- CSS
- Python
- MySQL
- Python Django Web Framework
- Jinja Template

# Functionalities of Software :

- User Signup/Login
- Searching of Books
- Adding Books in to Library Management System
- Deleting or Editing Books Data
- Adding Students
- Deleting or Editing Students Data
- Issuing a Book to Students with their ID Number.
- Checking of Issued Books

Types of Testing Covered  
on This Website :

## 1. Usability Testing

- **Overall Usability of this Websites is tested, which includes testing experience of the website, navigation to various pages on the website from end user's point of view.**
-

Types of Testing Covered  
on This Website :

## 2. Functional Testing

- As a part of this testing, i focused on testing all major functionalities of this website such as login, signup, adding books, adding users, deleting books, checking books status etc.
-

Types of Testing Covered  
on This Website :

### 3. Compatibility Testing

- For completing compatibility testing i tested this website on different browsers and also tested it with different size of browser.
-

Types of Testing Covered  
on This Website :

## 4. System Testing

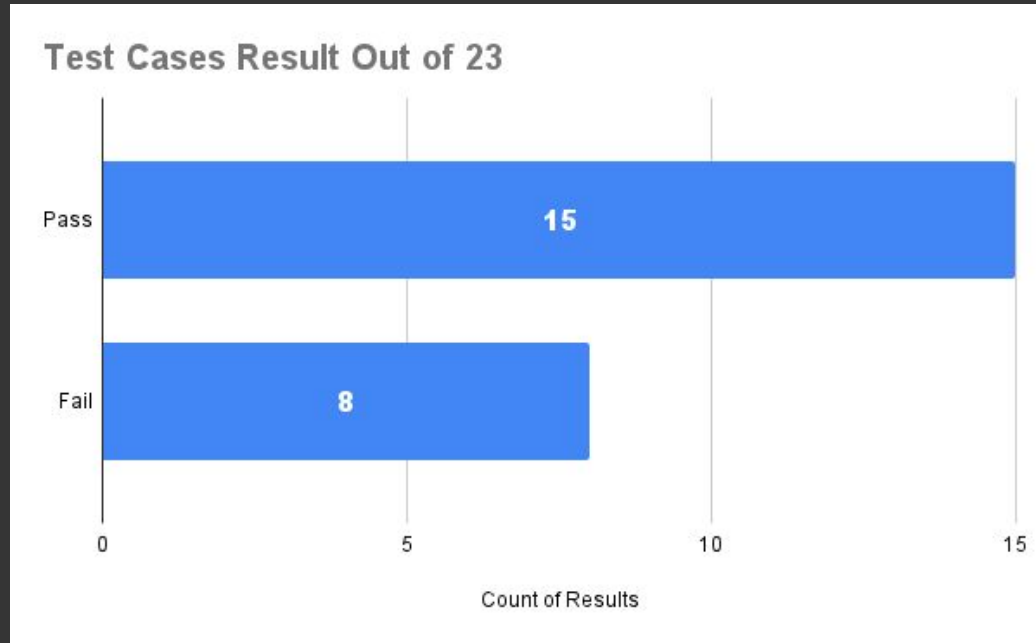
- At the end again i tested a system as a whole, how different modules of the website is working together and store the data and process the data.
-

---

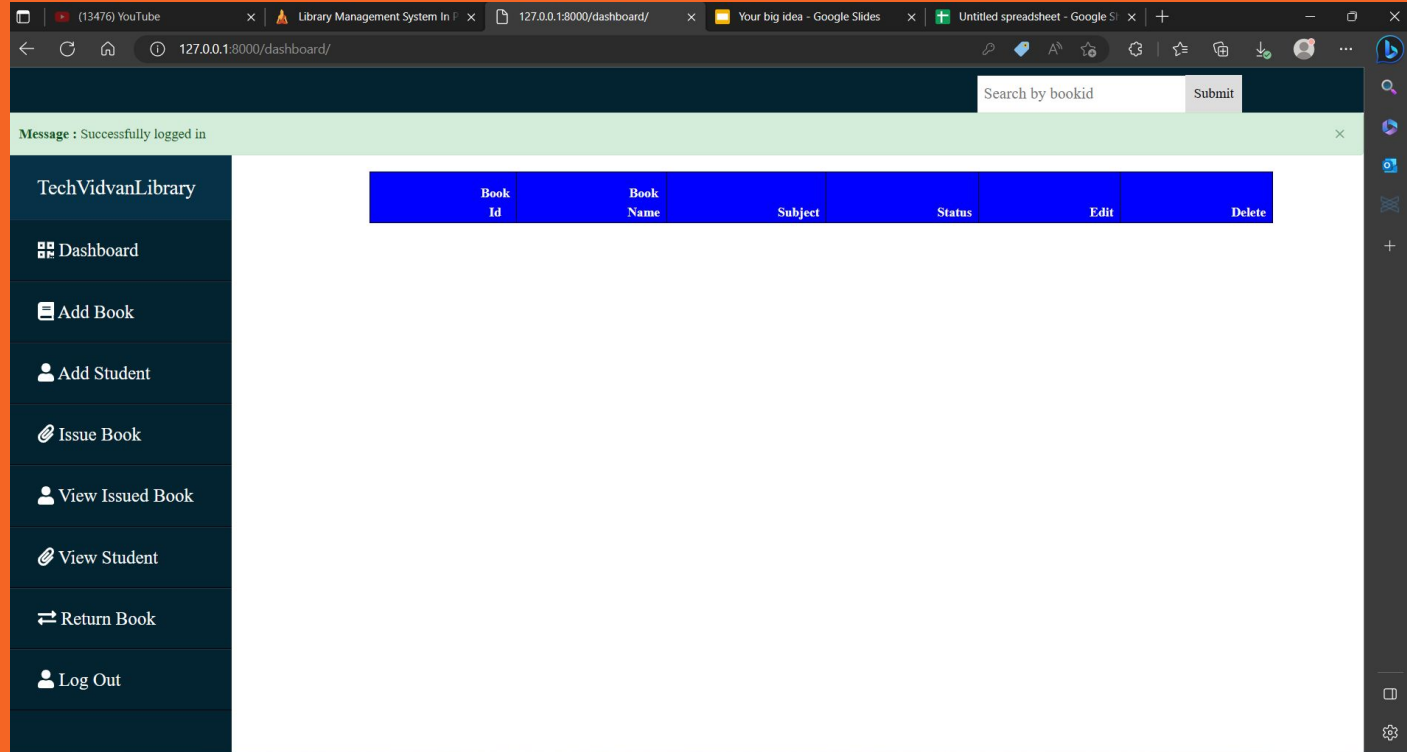
**WHAT ARE THE TESTING  
RESULTS ?**



## Results of Test Cases :

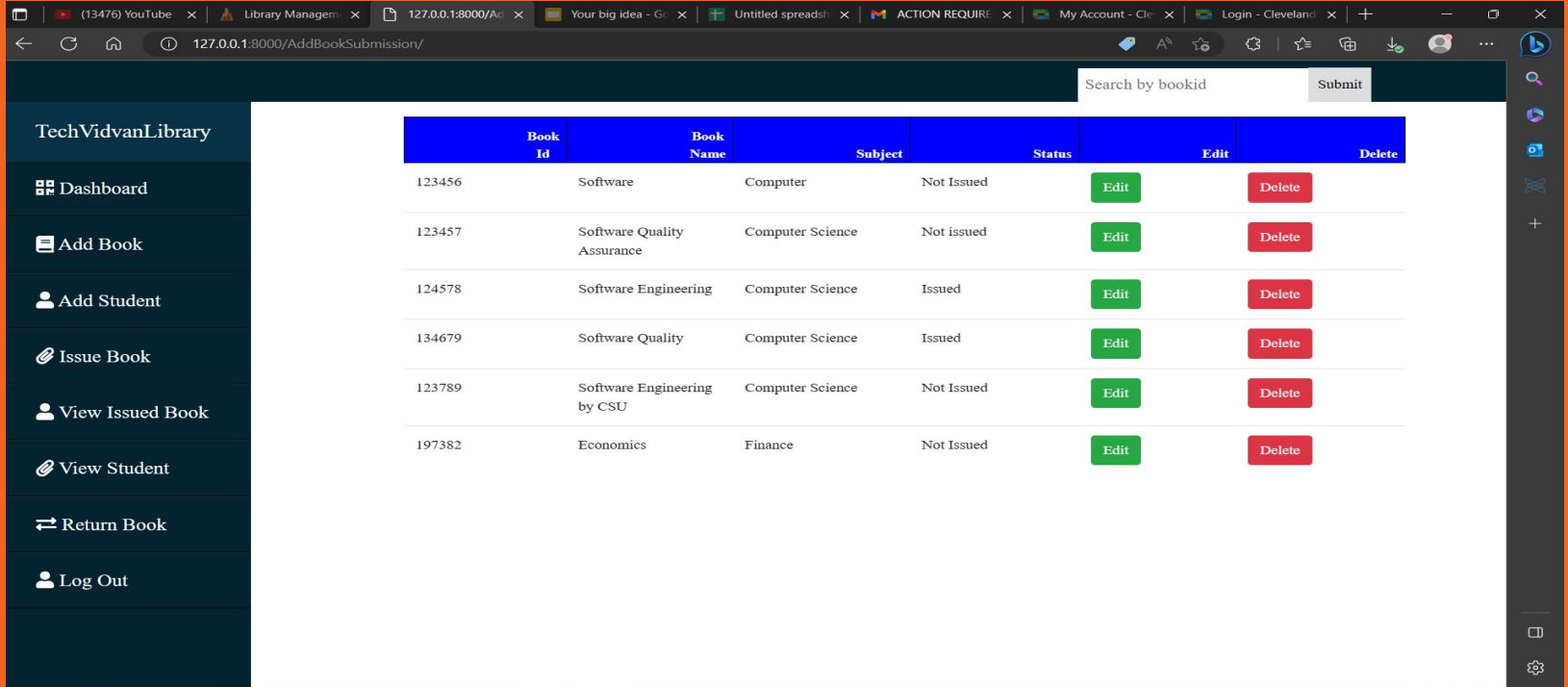


# Time for the Screenshots :



After Login Screen

# Time for the Screenshots :

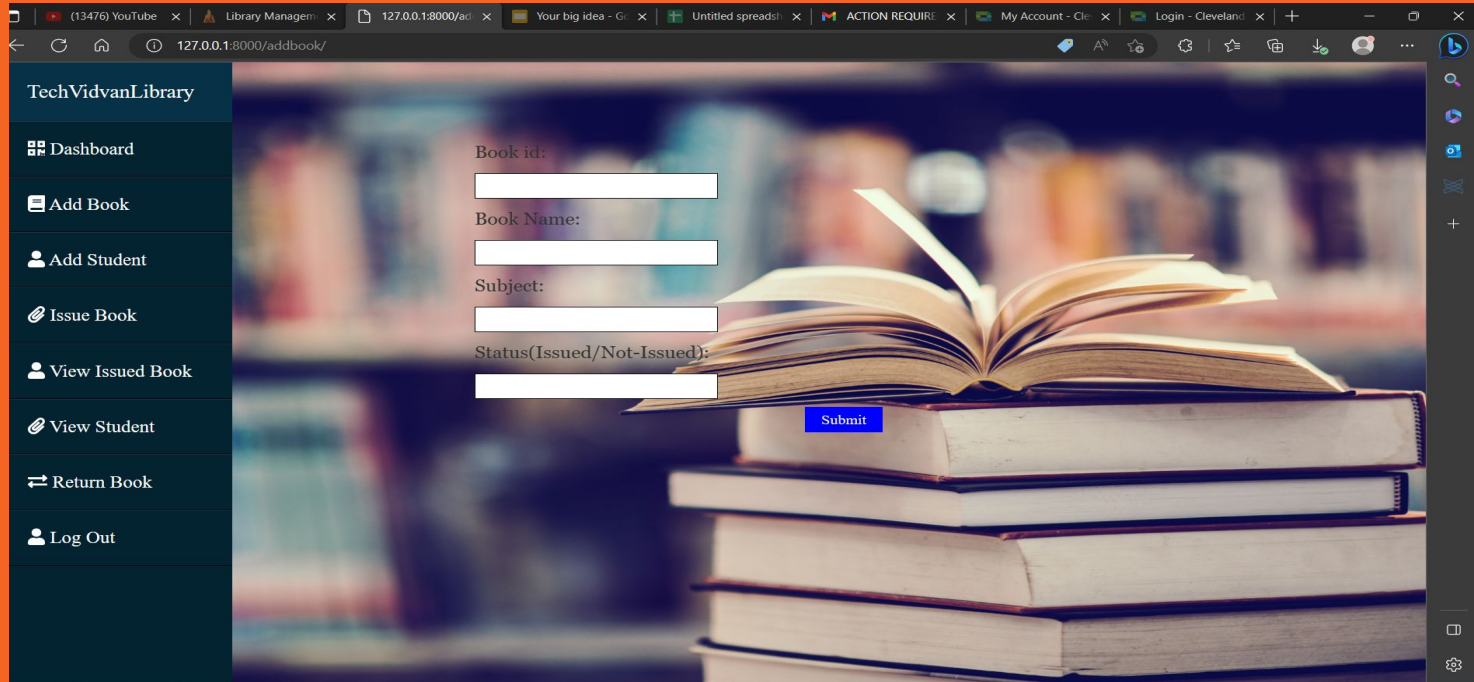


The screenshot displays a web application interface for a library management system. The browser's address bar shows the URL `127.0.0.1:8000/AddBookSubmission/`. The page features a dark blue sidebar on the left with the following menu items: Dashboard, Add Book, Add Student, Issue Book, View Issued Book, View Student, Return Book, and Log Out. The main content area has a dark blue header with a search bar labeled "Search by bookid" and a "Submit" button. Below the header is a table with the following columns: Book Id, Book Name, Subject, Status, Edit, and Delete. The table contains six rows of book data.

Book Id	Book Name	Subject	Status	Edit	Delete
123456	Software	Computer	Not Issued	<a href="#">Edit</a>	<a href="#">Delete</a>
123457	Software Quality Assurance	Computer Science	Not issued	<a href="#">Edit</a>	<a href="#">Delete</a>
124578	Software Engineering	Computer Science	Issued	<a href="#">Edit</a>	<a href="#">Delete</a>
134679	Software Quality	Computer Science	Issued	<a href="#">Edit</a>	<a href="#">Delete</a>
123789	Software Engineering by CSU	Computer Science	Not Issued	<a href="#">Edit</a>	<a href="#">Delete</a>
197382	Economics	Finance	Not Issued	<a href="#">Edit</a>	<a href="#">Delete</a>

Added Few Books

# Time for the Screenshots :



The screenshot displays a web browser window with multiple tabs. The active tab is titled '127.0.0.1:8000/addbook/'. The browser's address bar shows the URL '127.0.0.1:8000/addbook/'. The web application has a dark teal sidebar on the left with the following menu items: 'TechVidvanLibrary', 'Dashboard', 'Add Book', 'Add Student', 'Issue Book', 'View Issued Book', 'View Student', 'Return Book', and 'Log Out'. The main content area features a background image of a stack of books with an open book on top. Overlaid on this image is a form with the following fields: 'Book id:', 'Book Name:', 'Subject:', and 'Status(Issued/Not-Issued):'. Each field is followed by a white input box. A blue 'Submit' button is positioned below the 'Status' field. The browser's top bar shows several open tabs, including 'YouTube', 'Library Managem...', '127.0.0.1:8000/ad...', 'Your big idea - G...', 'Untitled spreadsh...', 'ACTION REQUIRE...', 'My Account - Cle...', and 'Login - Cleveland...'. The browser's toolbar includes standard navigation and utility icons.

TechVidvanLibrary

- Dashboard
- Add Book
- Add Student
- Issue Book
- View Issued Book
- View Student
- Return Book
- Log Out

Book id:

Book Name:

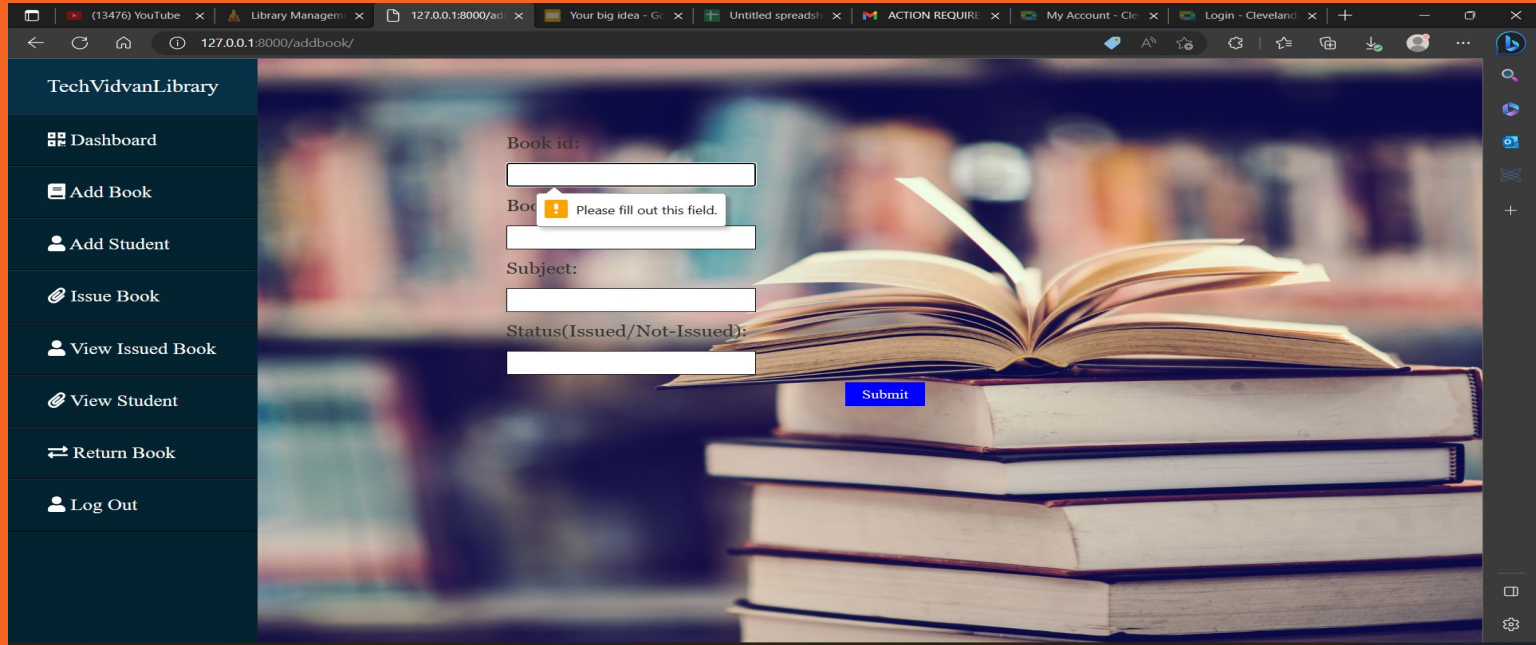
Subject:

Status(Issued/Not-Issued):

Submit

Adding a Book Function

# Time for the Screenshots :



TechVidvanLibrary

- Dashboard
- Add Book
- Add Student
- Issue Book
- View Issued Book
- View Student
- Return Book
- Log Out

Book id:

Book name:  
 Please fill out this field.

Subject:

Status(Issued/Not-Issued):

Submit

Website won't allow me to add book without entering data

# Time for the Screenshots :

The screenshot displays a web browser window with the URL `127.0.0.1:8000/Search/?query2=246802`. The browser's address bar shows the search query. The application interface includes a dark blue sidebar on the left with the following menu items: Dashboard, Add Book, Add Student, Issue Book, View Issued Book, View Student, Return Book, and Log Out. The main content area features a search bar at the top with the value '246802' and a 'Submit' button. Below the search bar, a table displays the search results. The table has a blue header with columns: Book Id, Book Name, Subject, Status, Edit, and Delete. A single row of results is shown for Book Id 246802, with Book Name 'Finance', Subject 'Finance', and Status 'Not Issued'. The 'Edit' column contains a green 'Edit' button, and the 'Delete' column contains a red 'Delete' button.

Book Id	Book Name	Subject	Status	Edit	Delete
246802	Finance	Finance	Not Issued	<button>Edit</button>	<button>Delete</button>

Searching of the book

# Time for the Screenshots :

246802

Book Id	Book Name	Subject	Status	Edit	Delete
123456	Software	Computer	Not Issued	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
123457	Software Quality Assurance	Computer Science	Not issued	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
124578	Software Engineering	Computer Science	Issued	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
134679	Software Quality	Computer Science	Issued	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
123789	Software Engineering by CSU	Computer Science	Not Issued	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
197382	Economics	Finance	Not Issued	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
789456	Getting Things Done	Self Help	Not Issued	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
456122	Psychology	Mental Health	Issued	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
234567	Psychology of Money	Finance	Issued	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
236790	Object Oriented Software Engineering	Computer Science	Not Issued	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>

List of books

# Defects Found in Website :

- UI of the Website Can be Improved.
- Filter Can be Added for Showing Some amount of Books.
- Editing and Deleting Options for Student's Data Can be Provided.
- Deleting or Editing Books Data.
- Status ( Issued/Not-Issued ) of the Books can be improved.



**Thank You  
for  
Your Time**