

# TPS Training Presentation

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## Outline

- Introduction
- Training phases
- Real Application "Online Library System"
- Demo

### Introduction

#### About me

- Computer Engineering Student at JUST
- Will Graduated at the end of this month

## About Training

- I have started my training in TPS on 3/3/2024
- My training focused on developing web applications using .NET Core with MVC and Entity Framework

#### Phase 1:

- Learning SQL by a given tutorial
- Learning what is ASP.NET core and how to start build application using it which was explained in "Pro ASP.NET Core 7.0, Adam Freeman" book
- Learning EF core with MVC by a given tutorial
- Build my first ASP.Net application step by step using the book
- Learning CSS and Bootstrap by a given tutorials

#### Phase 2:

- Build my first task which is a .Net project called "Library" consists of two pages:
  - 1. Shelves management by performing CRUD operations, and each shelf has multiple books.
  - 2. Books in each shelf also are managed using CRUD operations, this page should be displayed after click on the shelf name

#### Phase 3:

- Learning about additional component in .Net by a given tutorials.
  - 1. Web API using ASP.NET Core
  - 2. SignalR
  - 3. Authentication "Microsoft Identity"
  - 4. Jauery data tables
  - 5. Schedular "hang fire"
  - 6. Chart JS

#### Phase 4:

- Build the project "online library system" using three-tiers architecture and repository pattern.
- Improve the Library System by adding a new features, and design enhancements to make the final version of the project. As we will see in the next slides.

Real Application
"Online Library System"

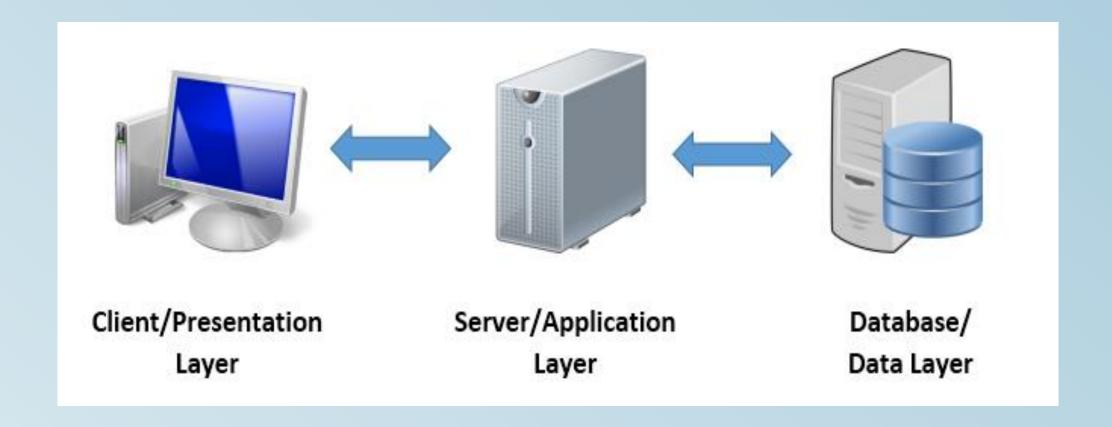


## 1-About the Application

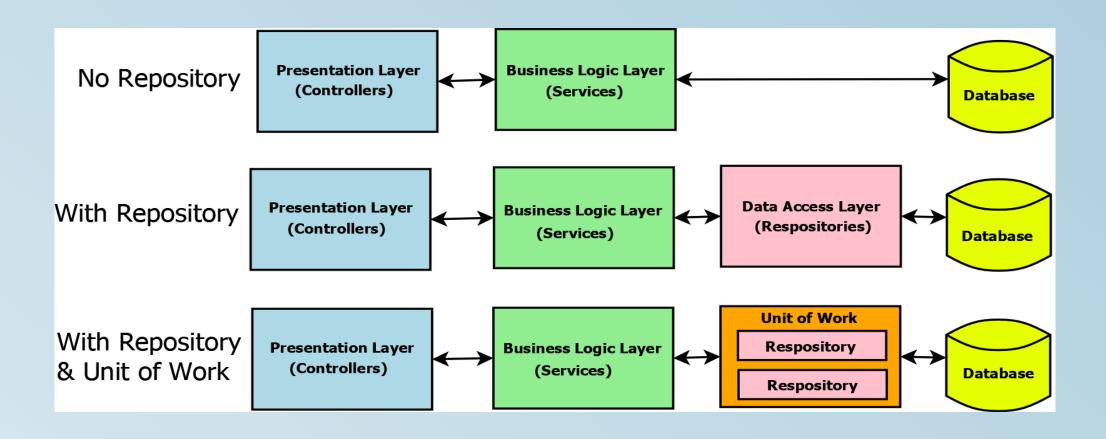
The Online Library System is a comprehensive digital platform designed to provide an efficient experience for both users and administrators in managing and accessing a wide range of books that are arranged in shelves and classified by categories.

The application is built using three-tiers architecture and repository pattern, ensuring scalability, maintainability, and efficient data management.

## Three Tier Architecture

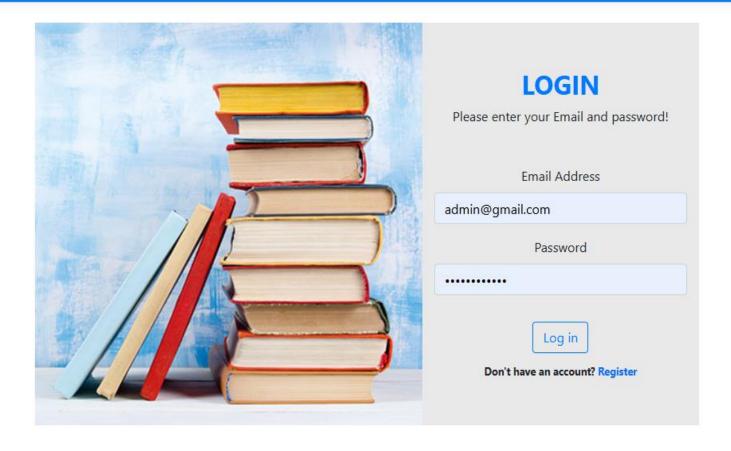


## Repository Pattern



## **Login Page**

Library System Log in Register



## **Home Page**

Library System Home Dashboard Shelfs Categories Log out



#### **Discover Shelfs**

Check out our books organized by shelfs

View Shelfs »

## **Show Categories**

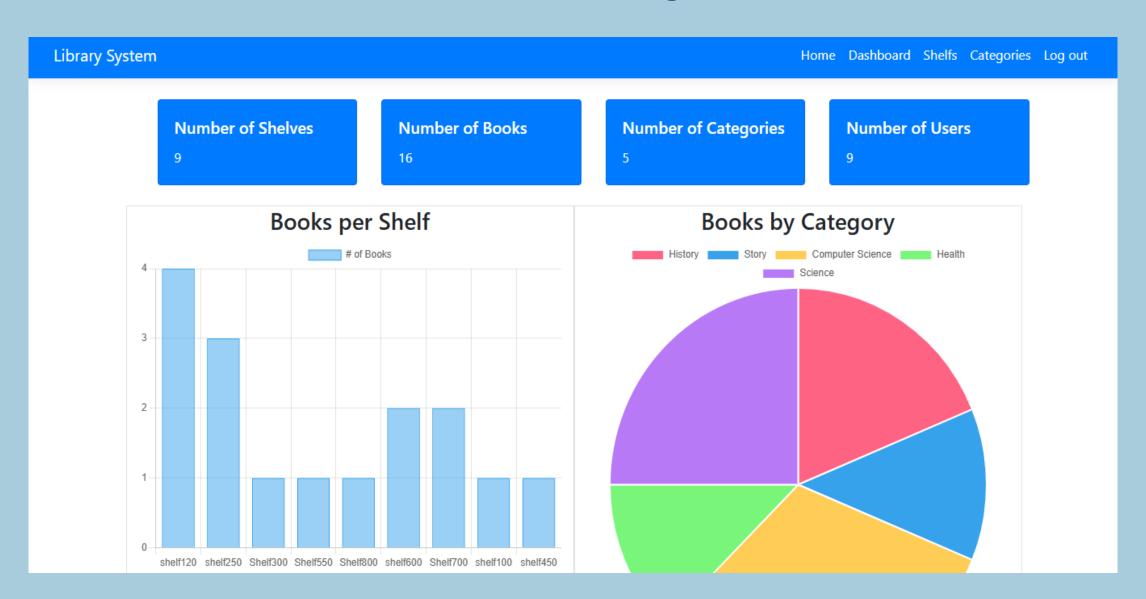
Explore books by your favorite category

View Categories »

## 2- Admin Features

- Dashboard Overview:
  - The admin dashboard provides a comprehensive view of the system statistics.
  - Key metrics include the number of shelves, books, categories, and registered users.
  - Interactive charts display the distribution of books across different shelves and categories.

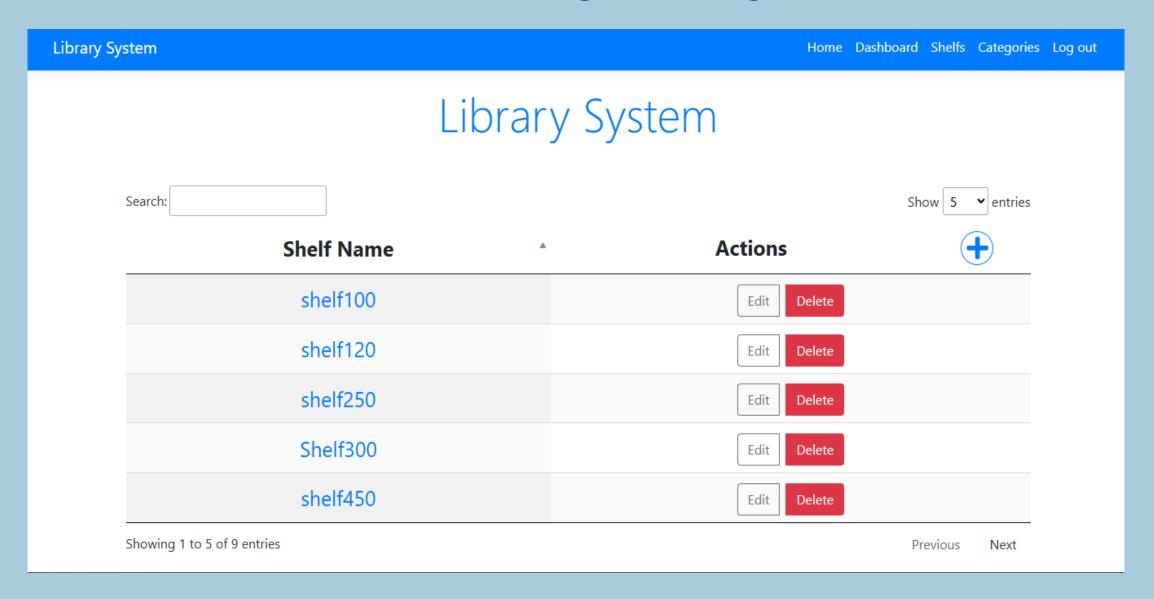
## **Dashboard Page**



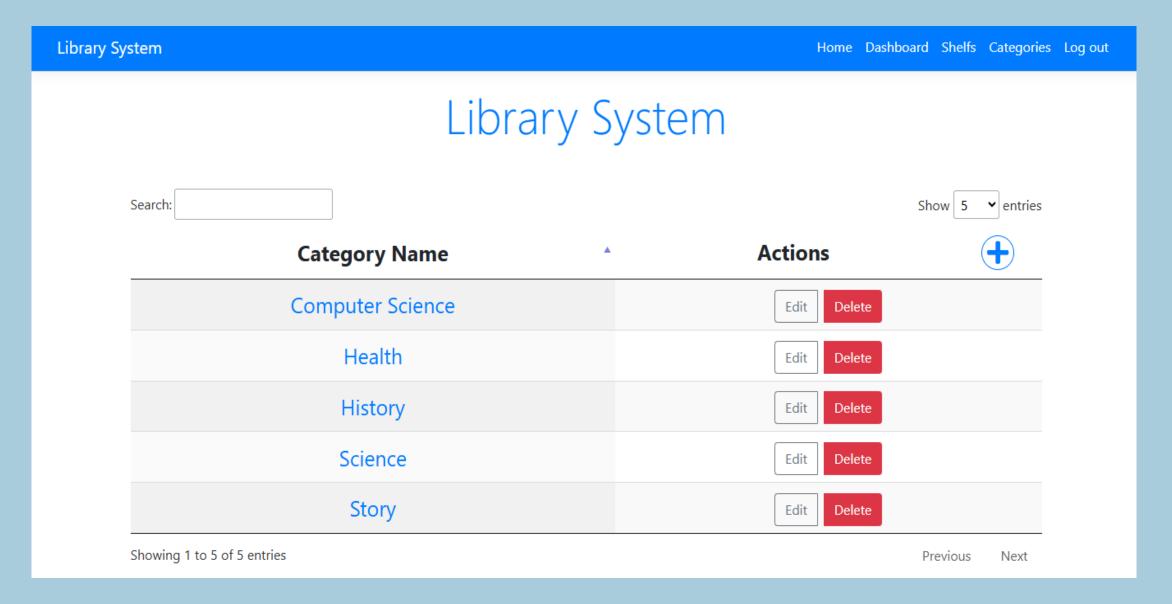
## 2- Admin Features

- Shelf and Categories Managements:
  - The admin can perform CRUD (Create, Read, Update, Delete) operations on shelves and categories.
  - Shelves and categories are displayed using Data Tables, which offer benefits such as enhanced data handling, sorting, searching, and pagination for efficient management.

## **Shelves Management Page**



## **Categories Management Page**



## 2- Admin Features

- Books Managements:
  - The admin can perform CRUD (Create, Read, Update, Delete) operations on Books, and upload an image represents each book and a PDF file has the content of the book.
  - Books are displayed as a card, and each card has an image and the buttons to let the admin manage the books.
  - The admin can view the books by the shelves or by categories.

## Display books in the shelf

Library System

Search for a book or cated Q



Home Dashboard Shelfs Categories Log out

# shelf120

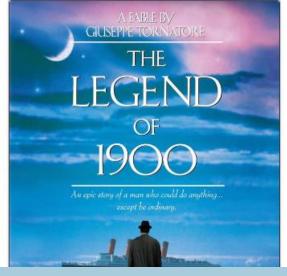
Add a new book

Please Enter Book Name

Select Category

Add

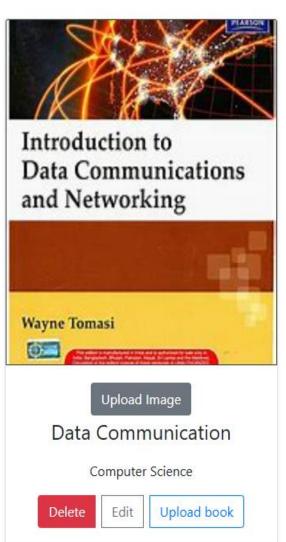


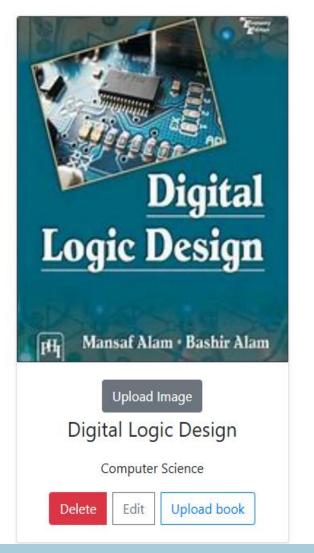




## **Books Management Page**







## 3- User Features

## Login and Registration:

- Users can easily register for an account or log in to access the library.
- Secure authentication ensures that user data is protected.

#### Browse and View Books:

- Users can explore books organized by shelves or categories for easy navigation.
- Each book can be viewed in PDF format or downloaded for offline reading.

## Book Rating:

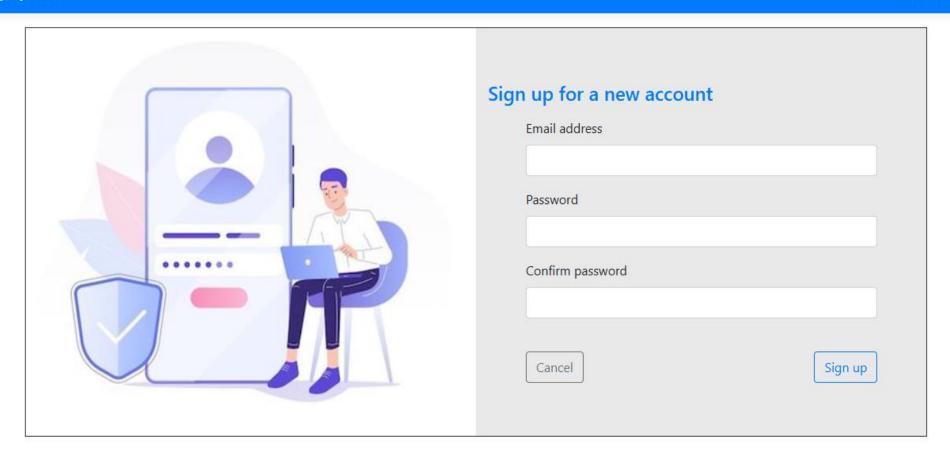
 Users can rate books they have read, helping others in the community find quality reads.

## Search Functionality:

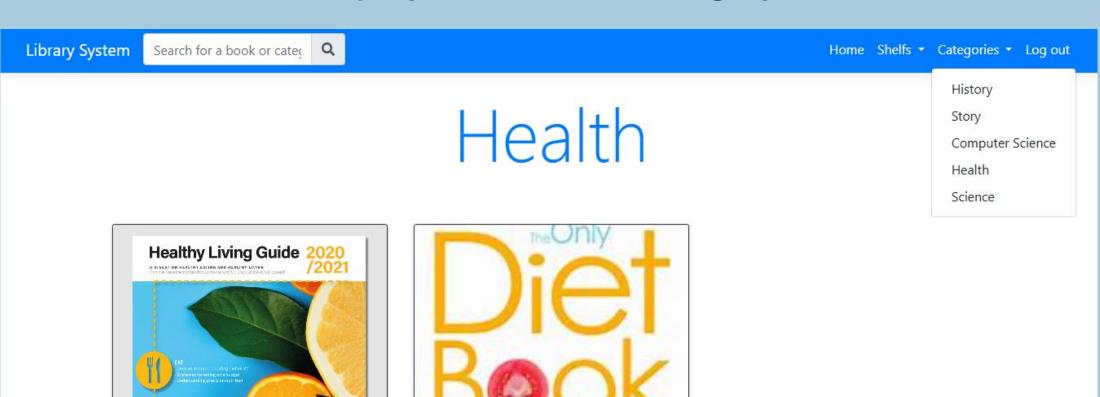
A search bar allows users to find specific books by name or category quickly.

## **Register Page**

Library System Log in Register



## Display books in the Category



**Ever Need** 

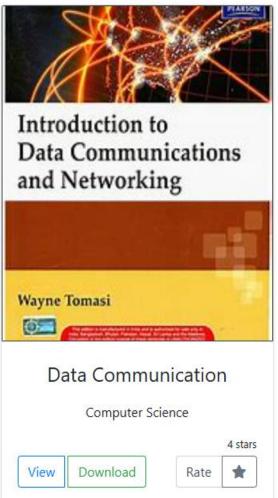
Cyndi Targasz

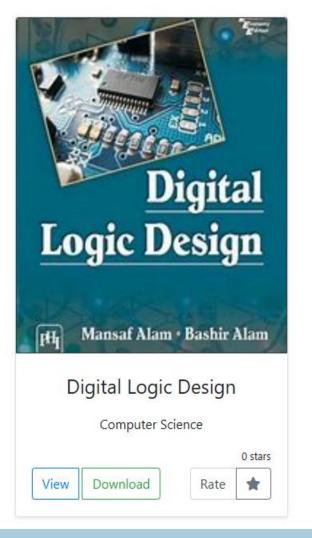
The Secret to Eating Well,

TEN CHAN

## **Books View Page**









# Demo

Online Library



Thank you!
Any Questions?