EASTERN INTERNATIONAL UNIVERSITY
SCHOOL OF COMPUTING AND INFORMATION TECHNOLOGY

Practice Assignment – Quarter 1, 2024-2025
Course Name: .Net Programming
Course Code: CSE 443
Student's Full Name:
Student ID:

Practice Assignment 5

LIBRARY MANAGEMENT SYSTEM

Following previous Practice Assignment, further develop the new layout and add model in the MVC framework

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Exercise 1: In Practice Assignment 4, you have implemented the database and model in the project. In Exercise 1, you need to display all information on the homepage according to the requirements:

- With the horizontal menu you add more item from left to right like this:
  - Home page => go to homepage
  - Admin: Navigate to the admin homepage (Existing feature from the previous practice assignment).
  - Programming Book: The menu navigates to the screen displaying all the books in the Programming category.
  - Fiction Book: The menu navigates to the screen displaying all the books in the Fiction category.
  - Science Fiction Book: The menu navigates to the screen displaying all the books in the Science Fiction category.

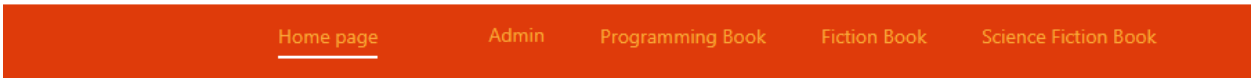

Figure 1: horizontal menu in the homepage

Note:

- Change the menu according to the description in Figure 1
- Add the data to your database, specifically in the category table and the book table.

Exercise 2:

Figure 2: View show the list book from the category book

In Exercise 1, you already have the menu. In this exercise, you need to implement the detail view for each menu as required:

- Load the list book for each category menu.
- Display them into the view like the figure 2.

Exercise 3:

In Exercise 2, you already have the list of books. Now, you need to implement a 'View Details' button for each book in the list. When you click on a book, it should navigate to a detailed view displaying the information for that specific book.

Figure 3: Detail information of book (Practice Assignment 3)

Exercise 4: Loading and Displaying PDFs for Books in ASP.NET Core MVC

Question: You are tasked with creating a feature that allows users to view a PDF version of each book's details in your library management system. Each book should have a "Read PDF" button that, when clicked, opens the book's PDF file in a new view. The PDF should display directly on the page without downloading.

Instructions:

1. **Update the Book Model**: Add a property to the `Book` model to store the PDF file path. This property should allow the application to retrieve the correct PDF for each book. *(You already have the column "Pdf" in the table book in the previous lab)*
2. **Controller Action**:
    - Create an action method called `ReadPdf` in the `BooksController`. This method should:
        - Retrieve the PDF path based on the selected book's ID.
        - Load the PDF file and pass its URL or path to the view.
        - Include error handling to manage cases where the PDF file is missing or the path is incorrect.
3. **Create the PDF View**:
    - In the view for `ReadPdf` (e.g., `ReadPdf.cshtml`), use HTML (like `<iframe>` or `<embed>`) to display the PDF on the page directly. Optionally, you can use a JavaScript library like PDF.js if you want extra functionality, such as zooming or navigation within the PDF.
4. **Integrate the "Read PDF" Button**:
    - On your book listing view or detail book view (e.g., `Index.cshtml`), add a "Read PDF" button for each book. This button should link to the `ReadPdf` action with

the corresponding book's ID, allowing users to view the PDF file related to that specific book.

5. **Testing and Validation**:
    - Ensure that each "Read PDF" button correctly loads the appropriate PDF for the book.
    - Verify that the PDF view handles missing or incorrect file paths gracefully by showing an error message if needed.
    - Make sure the PDF displays well across different screen sizes and devices.

Deliverables: Submit your modified `Book` model, `BooksController` with the `ReadPdf` action, and the `ReadPdf.cshtml` view. Provide screenshots showing the PDF view and the "Read PDF" button functionality.

Figure 4:Example view for pdf of book.