



PROJECT DESCRIPTION

ASSIGNMENT 2



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Project Description

BookedIn is an online reading management system developed for the avid readers who struggle to keep track of their reading schedules. Developed using ASP.NET Web Forms with C#, the application offers a simplified user experience designed around the needs of readers.

This application is designed to organize, manage, and track one's reading habits, allowing them to stay on top of their reading goals. It simplifies the process of managing multiple books simultaneously, making it a valuable tool for book lovers and casual readers alike.

The application is made up of 4 main Web Forms:

1. [Dashboard](#): This is the landing page, which displays the reading list containing books the user intends to read. Each book record shows the title, author, start date, and end date, with an option to view detailed information by clicking on the book's title. The Dashboard also incorporates a Calendar control showing the reading schedule.
2. [Add New Book](#): This Web Form includes a data entry section to add a new book to the reading list, with fields for title, author, and reading dates.
3. [Book Detail](#): Accessible by clicking a book title on the Dashboard, this Web Form presents detailed information about the selected book, and options to update or delete the book from the reading list.
4. [Update Book](#): This allows the user to update a book's details.

Incorporated in the application is a single database table named "Books," containing fields for BookID, Title, Author, StartDate, and EndDate. As users interact with the application, new books are added as records to the database.

Computer Program

ASP.NET Web Forms: The BookedIn application is built using ASP.NET Web Forms, providing a simpler development model for our requirements.

ASP.NET Controls: The application uses a variety of ASP.NET controls:

- **TextBoxes and Buttons:** Used in the "Add New Book" form for capturing user inputs.
- **GridView:** Implemented on the Dashboard for displaying the list of books.
- **HyperLink:** Used in the GridView for book titles, leading to the detailed view of the book.
- **ASP.NET Calendar Control:** Integrated into the Dashboard for visualizing the reading schedule and allowing the user to filter by books to be read before the selected date.

Web Forms: The application consists of four Web Forms:

1. **Dashboard:** Displays the user's reading list.
2. **Add New Book:** Allows users to add a new book to their reading list.
3. **Book Detail:** Presents detailed information about a selected book.
4. **Update Book:** Allows users to update book details

Cookies and Sessions: These are utilized to manage user-specific data during a session, such as the user's current book list, last viewed book, and current book.

Database: The application has a "Books" database table with fields for BookID, Title, Author, StartDate, EndDate and Details. New books added by the user create new records in the database.

Database Interactions: The application implements CRUD operations:

- **Create:** When a user adds a new book, a new record is created in the database.
- **Read:** The Dashboard retrieves and displays the user's book list. The "Book Detail" form retrieves specific book details.
- **Update:** Users can update book details on the "Book Detail" form, updating the corresponding database record.
- **Delete:** Users can delete a book from their list on the "Book Detail" form, deleting the corresponding database record.

Input Validation: The application uses input validation on the "Add New Book" form to ensure all fields are correctly filled, as well as on the "Update Book" form.

Styling and Design: The application uses CSS and Bootstrap for styling, providing a clean and attractive user interface.