

GROUP 6 PROPOSAL

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INTRODUCTION:

We are going to build an e-commerce bookstore web application. This application is for the people who has not enough time to visit book stores. So, we are providing an online book service where people can visit our website and buy their favorite books in no time. We thought that it would be a great project for the topics we've covered in this course.

PROJECT DESCRIPTION :

We are going to build it using ASP.NET Core with MVC design pattern. We picked MSSQL database as our data storage.

Technical Part :

We will be developing our project with a data-driven development and code first approach. In this context, the main topics that will be seen in our project are as follows:

- Middleware → Middlewares are part of Http pipeline in ASP.NET Core. Authentication, debugging, routing, evaluation and response of incoming requests are made with the help of middlewares.
- Dependency Injection → It is a design pattern used to manage dependencies. This pattern aims to reduce the dependency of one component on other components. This will be used in book services, category services and user instances.
- Migration → It is used for convenience in CRUD operations and to provide with snapshots between the database and the project.
- Db connection → We need data to retrieve from a database to show the users. If we want the web server dynamic one, storing and retrieving the data is inevitable.
- Routing → It is used to determine which controller and action incoming requests will be directed to. Routing ensures that URLs are handled and the correct processing method is called.
- View model → View models are used to facilitate data presentation and to provide a suitable middleware for data communication. This makes it more accessible and reusable.

- Tag helper → Tag Helper is a feature that makes it easier and more efficient to create HTML tags in Razor pages. Tag Helpers allow you to work more dynamically and efficiently by combining HTML tags with C# code. We'll be using it in cshtml and css codes a lot.

The target audience or users who will benefit from an e-commerce bookstore web application can include:

- 1- Book lovers and avid/casual readers: These individuals enjoy discovering and purchasing books online. They appreciate the convenience of browsing through a wide range of titles, genres, and authors.
- 2- Students and academics: This group often requires textbooks, reference materials, and scholarly works. An e-commerce bookstore can provide them with a convenient platform to find and purchase it.
- 3- Gift shoppers and Book clubs/Reading groups: An e-commerce bookstore can serve as a convenient option for individuals looking to purchase books as gifts for friends, family, or colleagues.
- 4- Authors or busy individuals : An e-commerce bookstore can be a beneficial platform for authors and publishers to promote and sell their books directly to readers. Also, people with limited time for physical bookstore visits can benefit from the convenience of an e-commerce platform.
- 5- International readers: E-commerce bookstores offer the advantage of accessibility to readers worldwide. People living in remote areas or different countries can access a vast collection of books that may not be available locally.

Here are the potential impact or benefits of the e-commerce bookstore web application:

- 1- Convenience and Wide Selection: The e-commerce platform offers the convenience of browsing and purchasing books from the comfort of one's own home or any location with internet access. It can provide users with an extensive collection of books across various genres, authors, and formats.
- 2- Customer Reviews and Ratings: Users can benefit from customer reviews and ratings available on the platform. These reviews help in making decisions.
- 3- Cost Savings and Accessibility: In comparison to actual stores, online bookstores frequently provide comparable pricing and discounts, making books more accessible. They eliminate geographic restrictions, enabling people from many areas to obtain books. People can now readily search and buy books online, even if they live in distant places or nations with few physical bookstores.

PROJECT OBJECTIVES :

Specific objectives of the project :

- 1- Provide a user-friendly and intuitive platform for users to browse, search, and purchase books online. We also enable users to create accounts and track their orders.

- 2- Offer a wide selection of books across various genres, authors, and formats. Provide a platform for authors and publishers to showcase and sell their books directly to readers.
- 3- Enhance user engagement and satisfaction through personalized recommendations, reviews, and ratings.

The main features and functionalities of the project :

- 1- Reviews and Ratings: Enable users to read and post book reviews and ratings, assisting others in making wise choices.
- 2- User Registration and Authentication: Give customers the ability to register, log in, and maintain their profiles for individualized experiences and order monitoring.
- 3- Book Catalog: Showcase a whole list of books, complete with title, author, description, cover image, price, and availability information.
- 4- Search and Filtering: Give consumers the option to look for specific books or explore suggestions by searching for them using keywords, categories, authors, or other criteria.
- 5- Shopping Cart: This feature enables customers to add books to their carts, browse their contents, change quantity selections, and check out.

Here is our diagram for now :

