Profilebook

WEB APPLICATION

Batch- FY26-C1

WELCOME TO OUR PROJECT PRESENTATION

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OBJECTIVE :

- Secure authentication for users and admins.
  • Post creation and admin approval
  .Commenting and liking posts.
  • Reporting system for inappropriate content.
- Enable users from different regions and backgrounds to create profiles, share interests, and build relationships. Ensure seamless navigation between different functionalities like posting, messaging, and profile updates.
- Offer administrators tools to manage users, monitor inappropriate content, and handle reports effectively. Build the platform with technologies that ensure performance optimization and easy maintenance.

INTRODUCTION TO THE PROJECT

- ProfileBook connects users virtually, enabling easy interaction through posts and messaging while maintaining a secure and moderated environment.
- Users face fragmented services when it comes to social interaction, requiring multiple apps for messaging, posting, and reporting.
- • Secure authentication for users and admins . • Post creation and admin approval. • Commenting and liking posts. • Reporting system for inappropriate content.
  • Image storage and management.
- The project is designed to provide seamless user experience using Angular for frontend, ASP.NET Core MVC. Web API for backend, and SQL Server database. JWT is used for secure authentication, while EF Core manages the database interactions.

TECHNOLOGIES AND TOOLS USED:

TECHNOLOGIES:

Frontend (Angular): Angular Router for navigation, Context API or Redux for state

Back-End: ASP.NET Core MVC with Web API

TOOLS:

Front-End: Visual Studio Code

Back-End: : ASP.NET Core MVC + Web API

Browser: Google Chrome For Development

API Services: Swagger

Database: SQL Server (Entity Framework Core ORM)

ADMIN FUNCTIONALITY :

- As an Admin I will be able to login, Logout and Register into the application.
- As an Admin I will be able to perform CRUD on Users.
- As an Admin I will be able to Perform CRUD on the users.
- As an Admin I will be able to View the list of registered users and their profiles.
- As an Admin I will be able to Approve or reject user posts
- As an Admin I will be able to Review reported content before they are published.
- As an Admin I will be able to ccess reports submitted by users regarding abusive behavior, spam, or inappropriate content
- As an Admin I will be able to Implement authentication rules, password policies.

ADMIN USAGES :

USER FUNCTIONALITY :

- As a user I will be able to login, Logout and Register into the application.
- As a user I will be able to Search users by name or interests. categories.
- As a user I will be able to Browse posts shared by other users.
- As a user I will be able to Share text, images, cart.
- As a user I will be able to Add or update personal details like profile picture, name, bio, etc.
- As a user I will be able Engage with content by commenting and sharing opinions.
- As a user I will be able to Report users who violate community guidelines. Help keep the platform safe and free from abusive behavior
- As a user I will be able to find other users by name, username.

PROJECT STRUCTURE :

```
        +-----------------+
        |   ProfileBook   |
        +-----------------+
             /         \
            /           \
     +------------+   +------------+
     | Frontend   |   | Backend    |
     +------------+   +------------+
       |                |
  +-----------+         +-----------+
  | UI Pages  |         | API       |
  +-----------+         +-----------+
  | Services  |         | Controllers|
  +-----------+         +-----------+
                        | Da ta Models |
                        +-------------+
```

SYSTEM TOOLS FOR FRONT-END

HTML (Hyper Text Markup Language) : HTML is a syntax used to format a text document on the web.

CSS (Cascading Style Sheets) : CSS is a style sheet language used for describing the look and formatting of a document written in a markup language.

TYPE SCRIPT: TypeScript is a primary language for Angular application development. It is a superset of JavaScript with design-time support for type safety and tooling. Browsers can't execute TypeScript directly

Bootstrap : It is the most popular CSS framework for developing responsive and mobile-first websites.

Angular 20 is a client-side TypeScript based framework which is used to create dynamic web applications.

ANGULAR ARCHITECTURE

BACK-END

SQL Server (Database) : A relational database management system by Microsoft.

Stores persistent data: user accounts, posts, messages, reports.

Works seamlessly with EF Core . Provides security, indexing, and optimised querying for large datasets.

ASP.NET Core MVC (Model-View-Controller):A cross-platform, open-source framework for building web applications and APIs.

Handles HTTP requests from the frontend.

Organizes the project into Controllers (handle requests), Models (data), and Views (if UI needed, but here we expose APIs).framework.

Entity Framework Core (EF Core)

What it is: An Object-Relational Mapper (ORM) for .NET that lets you work with a database using C# classes instead of SQL directly.

Maps database tables to C# models (e.g., User, Post, Report).

ASP.NET CORE ARCHITECTURE :

DATABASE DESIGN

SNAPSHOT OF WEB APPLICATION

ADMIN FUNCTIONALITY :

ADMIN FUNCTIONALITY :

CRUD operations on users

ADMIN FUNCTIONALITY :

Creating Groups

ADMIN FUNCTIONALITY :

ADMIN DASHBOARD

ADMIN FUNCTIONALITY :

Approving users upload requests

USER FUNCTIONALITY :

<< USER LOGIN

USER REGISTRATION >>

USER FUNCTIONALITY :

HOME PAGE

USER FUNCTIONALITY :

USER PROFILE

USER FUNCTIONALITY :

<< USER POSTS

Reported user >>

USER FUNCTIONALITY :

Report user

CONCLUSION

- The system has been developed with much care and free of errors and at the same time it is efficient and less time consuming.
- The purpose of this project was to develop a web application and an android application for users to connect with each other on internet.
- This project helped us in gaining valuable information and practical knowledge on several topics like designing web pages using html & css, usage of responsive templates, designing of android applications, and management of database using sql server .
- The entire system is secured. Also the project helped us understanding about the development phases of a project and software development life cycle. We learned how to test different features of a project.

THANK YOU FOR YOUR SUPPORT

WIPRO
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MR PARTH SHUKLA

Mentor

GREAT LEARNING
Training Partner