Kevin Bell

CS 3750

Dr. Arpit Christi

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Technology and Components Used

1. **ASP.NET Core Razor Pages**:

   - **Description**: Razor Pages is a page-based programming model that simplifies building web applications. It is part of the ASP.NET Core framework, designed for modern, cloud-based, and internet-connected applications.
   - **Key Features**: Razor syntax allows embedding C# code directly in HTML, facilitating the creation of dynamic web pages. Razor Pages support model binding, validation, and dependency injection.
   - **Reference**: [ASP.NET Core Razor Pages Documentation](#)

2. **Visual Studio Code**:

   - **Description**: Visual Studio Code (VS Code) is a lightweight, open-source code editor developed by Microsoft. It supports various programming languages and provides features like debugging, syntax highlighting, and version control integration.
   - **Key Features**: Extensions for ASP.NET Core development, integrated terminal, and Git support.
   - **Reference**: [Visual Studio Code Documentation](#)

3. **SQLite**:

   - **Description**: SQLite is a self-contained, serverless, and zero-configuration database engine. It is widely used for local data storage in applications and is particularly useful for development and testing.
   - **Key Features**: Lightweight, easy to set up, and supports most SQL features.
   - **Reference**: [SQLite Documentation](#)

4. **OBS Studio**:

   - **Description**: OBS Studio (Open Broadcaster Software) is a free and open-source software for video recording and live streaming. It allows you to capture your screen and create high-quality video content.
   - **Key Features**: Multiple source support, scene composition, and customizable transitions.
   - **Reference**: [OBS Studio Documentation](#)

Programming Languages Used

1. **C#**:

   - **Description**: C# is a modern, object-oriented programming language developed by Microsoft. It is the primary language used for developing applications on the .NET platform, including ASP.NET Core applications.

- **Key Features**: Strongly typed, supports asynchronous programming, and has a rich set of libraries.
- **Reference**: C# Documentation

2. **HTML/CSS**:

   - **Description**: HTML (HyperText Markup Language) is the standard markup language for creating web pages, while CSS (Cascading Style Sheets) is used for styling those pages.
   - **Key Features**: HTML provides the structure of the web pages, and CSS allows for layout and design customization.
   - **Reference**: HTML Documentation | CSS Documentation

3. **JavaScript**:

   - **Description**: JavaScript is a high-level, dynamic programming language that is widely used for adding interactivity and enhancing user experience in web applications. It runs in the browser and allows for client-side scripting.
   - **Key Features**: Enables dynamic content updates, form validation, and asynchronous requests (AJAX).
   - **Reference**: JavaScript Documentation

References to Online Source Code Snippets or Examples

1. **Razor Pages Tutorial**:

   - Get started with Razor Pages in ASP.NET Core

2. **ASP.NET Core MVC Tutorial**:

   - Create a web app with ASP.NET Core MVC

3. **SQLite with ASP.NET Core**:

   - Using SQLite with ASP.NET Core

4. **JavaScript Basics**:

   - JavaScript Guide

Conclusion

I utilized a combination of ASP.NET Core Razor Pages for web development, Visual Studio Code as my development environment, SQLite for database management, JavaScript for client-side interactivity, and OBS Studio for screen recording.