**.NET Core Real-time Chat Application with SignalR Assignment**

**Objective:** Develop a real-time chat application using .NET Core with SignalR that allows users to exchange messages instantly.

**Requirements:**

**1. User Authentication:**

• Implement basic user authentication with email/password using ASP.NET Core Identity or any preferred authentication system.

**2. Real-time Messaging:**

• Utilize SignalR to implement real-time messaging functionality.

• Allow users to send and receive messages instantly in chat rooms or private conversations.

**3. User Interface:**

• Design a simple user interface for the chat application, including chat rooms or private messaging.

• Display messages in real-time as they are sent and received by users.

**Required Features:**

**1. User Presence:**

• Implement functionality to display online/offline status for users.

• Show a list of currently online users in the chat interface.

**2. File Sharing:**

• Extend the chat application to support file sharing, allowing users to send and receive files in addition to text messages.

**Technology Stack:**

• Backend: .NET Core

• Frontend: ASP.NET Core MVC or Razor Pages with Bootstrap

• Real-time Messaging: SignalR

**Submission Guidelines:**

• Fork the project repository from a version control system (e.g., GitHub).

• Implement the required functionality according to the provided requirements.

• Commit code changes regularly and use clear commit messages.

• Provide documentation explaining the project setup, architecture, and usage instructions.

• Deploy the application to a cloud platform or provide instructions for local deployment.

**Evaluation Criteria:**

• Implementation of basic user authentication with ASP.NET Core Identity or any preferred authentication system

• Implementation of real-time messaging functionality using SignalR

• User interface design allowing users to exchange messages in real-time

• Optional features implementation (if attempted)

• Code quality, readability, and adherence to best practices

• Documentation completeness and clarity