SPORTING EVENTS SYSTEM

You are required to write a software solution for a Sporting Events System which allows users to manage various sporting events such as the Olympics or Football world cup.

The application has to be implemented using Web API as the backend and Single page application for the front end. This application stores details of teams, players, tournaments and matches, fields and tickets.

This software needs to have the following **features:**

The administrators who handle the system should perform the following operations.

      A. Login and get authenticated.

      B. Store player details and manage them.

      C. Create teams and add players to the team.

      D. Display a report of the match schedule

      E. Display the field details where the matches are conducted.

      F. Administrators should be able to book tickets on behalf of users.

Functional Requirements:

1. The front end should use service layer to invoke REST APIs implemented with Web API.

2. The Web application should connect to the database using Entity Framework.

3. The Web API's should be thoroughly tested with Postman tool.

4. The following design documents need to be created

    a) Use Case Diagrams to depict user's possible interactions with a system

    b) Entity-relationship diagram to represent the database design.

    c) Class diagrams to depict the static structure of the system.

d) Sequence diagrams to shows object interactions arranged in time sequence.

Submission:

1. Submit a single zip file that contains everything required

2. You are supposed to submit all the code that you have written

3. Along with the code you are also required to submit a documentation that mentions

      a. Project Name of your Back End and Front-End applications

      d. Database name for the application.

      e. Postman Collection containing the CRUD operations.

Note: *The project should follow best practices.*

Team Members:

Frontend Developers:

      Michael

      Zayden

Backend Developers:

      Elgin

      Reshma