

CLUB PROJECT DETAILS

Tech Stack

Frontend :

- Framework: Angular (Version 13.0)
- UI Components: Hyper Bootstrap Template
- Additional Libraries: JQuery, ngx-spinner, etc.

Backend :

- Framework: ASP.NET Core (Version 5)
- Database: Microsoft SQL Server 2014
- Additional Libraries: Custom data access layer, JWT Bearer, etc.

Development Tools :

- IDE: Visual Studio Code for frontend development
- IDE: Visual Studio for backend development
- Node JS (Version 16.14.2)
- Package Manager: npm (Version 8.5.0)
- Source Control: Git (Version 2.40.0)

Architecture

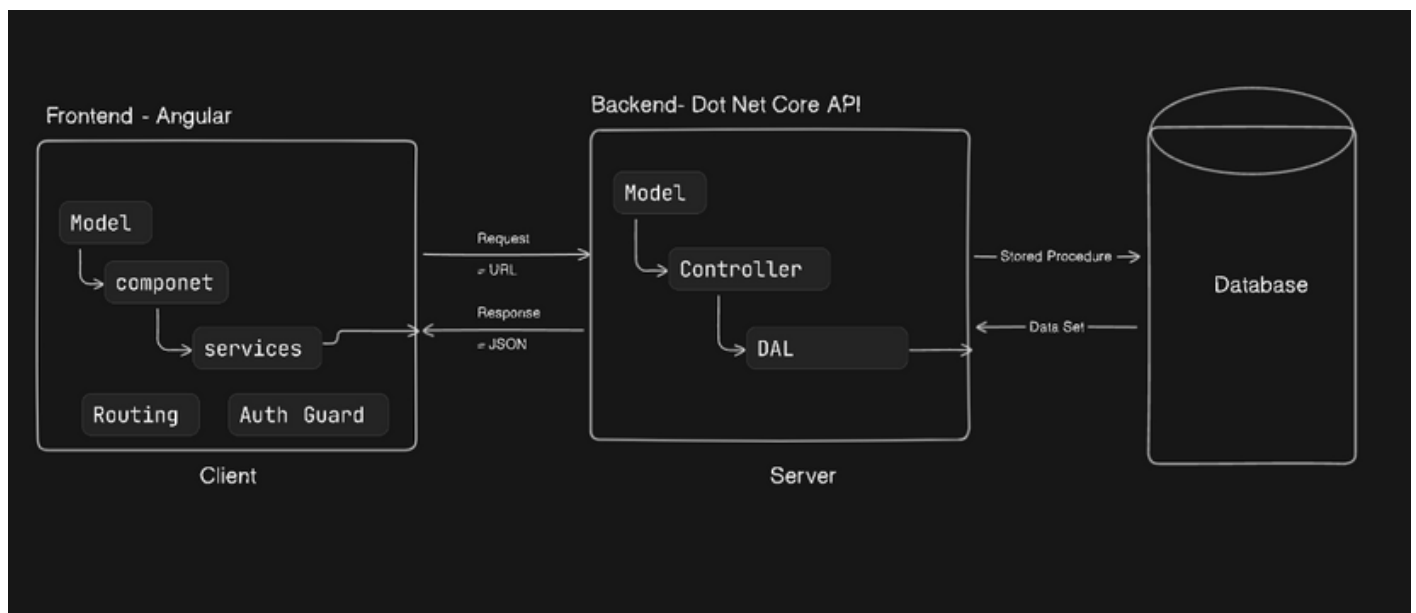
Frontend Architecture :

- The frontend is built using Angular, following a component-based architecture.
- Components are organized into modules for better modularity and maintainability.
- Services are used for data fetching, business logic, and communication with the backend API.
- Routing is implemented using Angular Router to navigate between different pages.

Backend Architecture :

- The backend is developed using ASP.NET Core 5, following a layered architecture pattern.
- The project is structured into layers such as Presentation (API Controllers), Business Logic (Services), and Data Access (Repositories).
- Dependency Injection is used to manage dependencies and promote loose coupling.
- Authentication and Authorization are implemented using JWT Bearer token.
- Exception Handling Middleware is implemented to handle exceptions using custom framework

Data Flow Diagram:



Hosting Environment :

- IIS

Database Schema:

Tables:

1. Settings

- **club_name:** varchar(50)
- **logo:** nvarchar(500)
- **email:** varchar(100)
- **number:** varchar(50)
- **about_us:** nvarchar(max)

2. Player

- **player_id:** int [PK]
- **first_name:** varchar(50)
- **last_name:** varchar(50)
- **email:** varchar(100)
- **date_of_birth:** date
- **profile_pic:** nvarchar(500)
- **role_id:** int
- **password:** varchar(50)
- **is_active:** bit
- **created_date:** datetime
- **created_by:** int
- **modified_date:** datetime
- **modified_by:** int

3. Teams

- **team_id:** int [PK]
- **team_name:** varchar(50)
- **captain_id:** int
- **logo:** nvarchar(500)
- **description:** varchar(500)

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- **created_date:** datetime
- **created_by:** int
- **modified_date:** datetime
- **modified_by:** int

4. Team_Player

- **team_player_id:** int [PK]
- **team_id:** int [FK]
- **player_id:** int [FK]
- **created_date:** datetime
- **created_by:** int
- **modified_date:** datetime
- **modified_by:** int

5. Match

- **match_id:** int [PK]
- **match_date:** date
- **location:** varchar(100)
- **fees:** numeric(18,2)
- **team1_id:** int
- **team2_id:** int
- **winner_team_id:** int
- **created_date:** datetime
- **created_by:** int
- **modified_date:** datetime
- **modified_by:** int

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6. Gender

- **gender_id:** int [PK]
- **gender_name:** varchar(50)

7. Role

- **role_id:** int [PK]
- **role_name:** varchar(50)

(There will be 3 roles - Admin, Captain, and Player)