Name: Muhammad Sabry Yousef Abdelzaher

African_Football_Legends Home Privacy Players Nations

Welcome to African Football Legends

© 2023 - African_Football_Legends - Privacy

Introduction:

The African Football Legends Management System is a web application designed to showcase and manage information about iconic African football players and their respective nationalities. The system allows users to explore a curated collection of legendary players, view their profiles, and apply filtering and search capabilities to easily find players based on specific criteria.

Project Overview:

- 1. **Explore Player Profiles**: Users can browse through a comprehensive list of legendary African football players, each with detailed profiles that highlight their career summaries, positions, international caps, retire dates, and more.
- 2. **Search and Filter**: The system offers powerful search and filtering options to quickly discover players based on criteria such as name, position, nation, and more. Users can refine their search results to find players who match their specific preferences.
- 3. **Nation Details**: In addition to player profiles, the system also presents information about African nations, including FIFA rankings, African Cup titles, foundation years, and more.
- 4. **Validation and Data Integrity**: The system includes robust validation mechanisms to ensure that user-provided data is accurate and valid. Custom validation attributes are implemented to enhance data integrity.

MVC:

1. Models:

- Player: Represents a legendary African football player. It includes properties such as full name, summary, date of birth, position, shirt number, international caps, retirement date, image URL, Wikipedia link, and nationality. The model also features data validation attributes and a custom validation attribute for Wikipedia links.
- **Nation**: Represents an African nation's football details, including FIFA ranking, nation name, African Cup titles, and foundation year. It's associated with players as a foreign key relationship.
- PlayerSearchViewModel: Features properties to hold filter parameters such as search term, position filter, nation filter, and the option to filter by goals or caps. This ViewModel enables users to refine their search criteria when looking for specific players in the Players Index View.
- WikipediaLinkAttribute: is a custom validation attribute inherits from ValidationAttribute, created to ensure the validity of Wikipedia links provided in player profiles using regex in overridden method IsValid.

2. Views:

- Player Views: These views are responsible for rendering player-related content. They include create, details, index, edit, and delete views. The index view displays a list of players with filtering and search functionality, allowing users to explore player profiles and a bottom which leads to every player's Wikipedia page.
- Nation Views: Similar to player views, these views render nation-related content. They include create, index, details, edit, and delete views, displaying nation details and allowing management.

3. Controllers:

- PlayersController: Manages player-related actions. It handles CRUD operations (Create, Read, Update, Delete) for players. It also handles the filtering and searching of players based on user preferences.
- **NationsController**: Manages nation-related actions. It handles CRUD operations for nations and their details.

Technical Details:

- ASP.NET MVC Core: The application is built using the ASP.NET MVC Core framework, which provides a structured approach to develop web applications.
- Entity Framework Core: Entity Framework Core is used for database interaction, allowing efficient data storage and retrieval. It facilitates creating and managing the database schema based on the model classes using code first approach with migration for every update.
- Razor Views: Razor syntax is used to create dynamic HTML views. It combines HTML markup with C# code to generate dynamic content based on the data from the models.
- Bootstrap: Bootstrap CSS framework is utilized for responsive design, providing a consistent and visually appealing layout across various devices featuring Bootstrap icons.
- **Custom Validation Attribute**: A custom validation attribute is implemented to validate Wikipedia links and ensure data integrity.
- **Filtering and Searching**: The application features filtering and searching capabilities in the index views. Users can filter players based on position, nationality, and search terms.
- Responsive Design: The application is designed with responsive CSS to ensure optimal user experience on different devices featuring Darkly.css as the main style for the entire site.
- Controller Actions: Controllers define actions that handle user requests. They interact with models, retrieve data, and pass it to views for rendering.
- ViewModels: ViewModel classes are used to encapsulate data needed by the views. They consolidate data from different models for efficient presentation.
- Data Annotations: Data annotations, such as [Required], [Range], and custom attributes, are applied to model properties to enforce validation rules.
- ASP and HTML Tags: ASP.NET and HTML tags enable dynamic content generation. ASP.NET tags like @Html.DisplayFor render model data, while HTML tags like select and input provide user input fields and selection options.

Screenshots across the website:

Player's Index View

African_Football_Legends Home Privacy Players Nations



Note: default for player's index view to be sorted by international caps.

Filter and Search Options

African_Football_Legends Home Privacy Players Nations

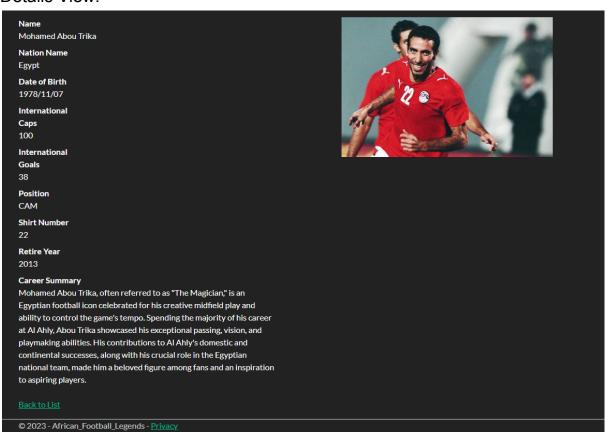


• Filters Result:

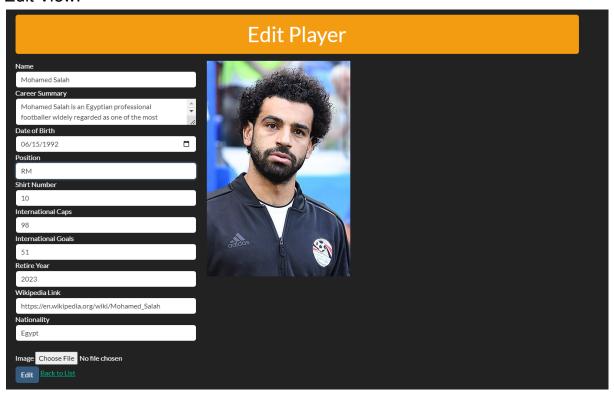
African_Football_Legends Home Privacy Players Nations



Details View:

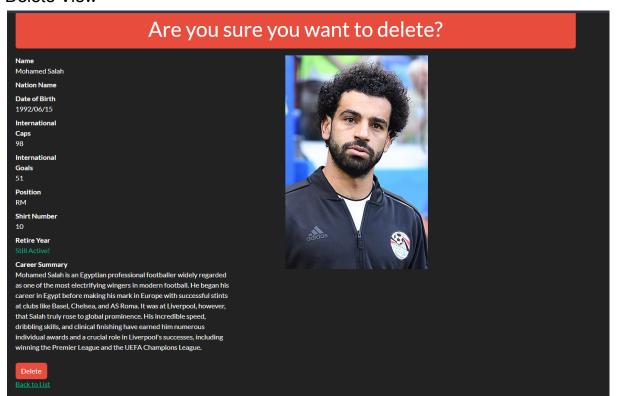


• Edit View:

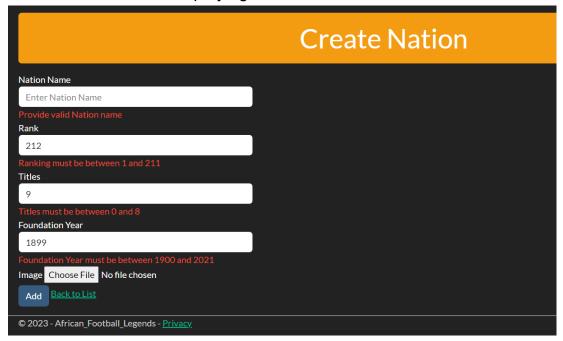


Note: When the Retire Year is set to 2023 it will be displayed as Still Active!

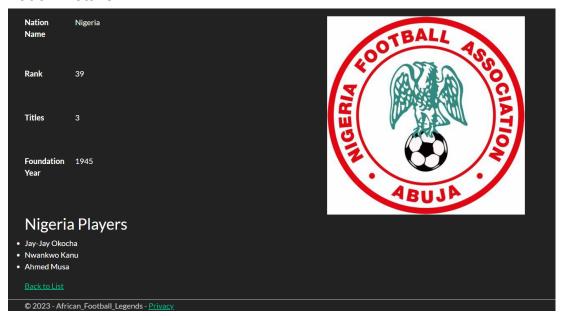
Delete View



• Nations Create View Displaying the Validation



Nation Details:



• Wikipedia Custom Validation:

