TECHVIZ 4
A GLOBAL I.T. COMPETITION

Aptech
Unleash your potential

Software Requirements Specification
Version 1.0

SoccerVerse

Theme: Soccer League

Category: Website Design and Development

Contents

1.1 Background and Necessity for the Website 2
1.2 Proposed Solution 3
1.3 Purpose of the Document 3
1.4 Scope of Project 3
1.5 Constraints 3
1.6 Functional Requirements 4
1.7 Non-Functional Requirements 7
1.8 Interface Requirements 8
1.8.1 Hardware 8
1.8.2 Software 8
1.9 Project Deliverables 8

© Aptech Limited 2023

1.1 Background and Necessity for the Website

Necessity for a soccer information Website arises from the passion and interest people have in soccer and the necessity for a centralized platform to access comprehensive soccer-related information. Here are some reasons why such a Website would be required:

- **Easy Access to Soccer Information:**
  Soccer enthusiasts, fans, and players are always looking for up-to-date and comprehensive information about teams, players, tournaments, and matches. A dedicated Website provides a convenient and centralized platform where users can access various soccer-related information easily and quickly.

- **Game Schedules and Results:**
  Soccer fans want to stay updated with upcoming game schedules and match results. A soccer information Website allows users to browse through game schedules, view match results, and access detailed information about individual matches, including team lineups and match statistics. This ensures that users have access to accurate and timely information about teams and matches.

- **Player Profiles and Galleries:**
  Soccer fans are interested in learning more about their favorite players. A soccer information Website offers player profiles that include player biographies, statistics, images, and other relevant information. Player galleries provide a visual showcase of players, allowing fans to explore and appreciate players' skills and achievements.

- **Top Scores and Rankings:**
  Soccer enthusiasts are often interested in knowing the top scorers and rankings in different leagues, tournaments, or competitions. A soccer information Website can provide a dedicated section displaying the top 10 scores based on specific criteria, such as goals scored or points earned. This feature helps users stay informed about the leading players and teams in the soccer world.

In short, a soccer information Website meets the demand for easy access to soccer-related information, including game schedules, match results, player profiles, top scores, and personalized user experiences. It caters to the requirements and interests of soccer enthusiasts, fans, and players by providing a centralized platform to browse, search, and engage with comprehensive soccer content.

© Aptech Limited 2023

1.2 Proposed Solution

The proposed solution is a Website called 'SoccerVerse' that allows users to access soccer related information, schedule of matches, player galleries, top scores, and so on.

1.3 Purpose of the Document

The purpose of this document is to present a detailed description of the Website **SoccerVerse** that will provide users a centralized platform to access comprehensive soccer-related information.

This document explains the purpose and features of the Website, the interfaces of the Website, what the Website will do, and the constraints under which it must operate. This document is intended for both stakeholders and developers of the Website.

1.4 Scope of Project

This Web portal will be a responsive and visually appealing Website to be used by individuals.

1.5 Constraints

The Web portal will not have any facility to store information on the server.

© Aptech Limited 2023

Information can be fetched from JSON/TXT files and users can view the same being displayed, however, information cannot be written to the files from within the portal.

1.6 Functional Requirements

The portal will be designed as a Single-Page-Application (SPA) and responsive Website with a set of pages and menus that represent choice of activities to be performed. The pages, menus, and other visual elements must be designed in a visually appealing manner with attractive fonts, colors, and animations. All of these should also be laid out in a responsive manner.

Data for the portal can be hardcoded or retrieved from the JSON/TXT file.

Following are the functional requirements of the portal:

1. Soccer Game Information:
    - The Website should provide information about soccer games, including match schedules, scores, team lineups, and match statistics.
    - Users should be able to browse through upcoming matches and view results of past matches.
2. Player Galleries:
    - The Website should feature galleries of soccer players.
    - Users should be able to view player profiles, including their bio, statistics, and images.
3. Top 10 Scores:
    - The Website should display the top 10 highest scoring players or teams based on specific criteria, such as goals scored or points earned.
    - Users should be able to view the rankings and navigate to individual player or team profiles.
4. Sorting, Searching, and Filtering:
    - Users should be able to sort soccer game information, player galleries, and top 10 scores based on various criteria, such as date, team, player name, or score.
    - Users should be able to search for specific soccer games, players, or teams using a search bar.

© Aptech Limited 2023

- Users should be able to filter soccer game information based on specific criteria, such as tournament, league, or match type.

5. Feedback:
   Feedback menu option should enable users to provide their feedback about this Website through a feedback form.

6. Contact Us:
   Contact Us menu option should enable users to contact the creators of the Website. An email id can be displayed here for contact information.

Sitemap: To help users understand the flow of the Website, you will create a Sitemap and add it to the home page of your Website.

Technical Considerations:

- Use HTML5, CSS3, Figma Toolkit, Bootstrap, jQuery, and JavaScript to build the User Interface (UI).
- Use either Angular or ReactJS to develop the application's frontend and add dynamic and responsive features along with SPA functionality.
- Use JSON/TXT files to handle data retrieval.
- Ensure that the application is responsive and compatible with different screen sizes.

Tasks:

1. Design the UI for the SoccerVerse Website, including the navigation menu, game information section, player galleries, top 10 scores, and so on.
2. Create the necessary components and services to display soccer game information, player galleries, and top 10 scores.
3. Implement search, sorting, and filtering features for different sections of the Website.
4. Optionally, use REST APIs if you are well-versed with them.
5. Test the Website's functionality, including browsing soccer game information, viewing player galleries, and performing search and filter operations. Deploy the Website to a local Web server such as XAMPP for testing purposes.

© Aptech Limited 2023

Important: Do NOT use boilerplate templates or readymade templates for development as it will adversely affect your evaluation. Your own Website design and development skills will be tested, hence no third party templates should be used here.

© Aptech Limited 2023

1.7 Non-Functional Requirements

There are several non-functional requirements that should be fulfilled by the Website.

The Website should be:

Safe to use: The Website should not result in any malicious downloads or unnecessary file downloads.

Accessible: The Website should have clear and legible fonts, user-interface elements, and navigation elements.

User-friendly: The Website should be easy to navigate with clear products/items and other elements and easy to understand.

Operability: The Website should operate in a reliably efficient manner.

Performance: The Website should demonstrate high value of performance through speed and throughput. In simple terms, the Website should be fast to load and page redirection should be smooth.

Capacity: The Website should support large number of users.

Availability: The Website should be available 24/7 with minimum downtime.

Compatibility: The Website should be compatible with latest browsers.

These are the bare minimum expectations from the project. It is a must to implement the functional and non-functional requirements given in this SRS. Once they are complete, you can use your own creativity and imagination to add more features if required.

© Aptech Limited 2023

1.8 Interface Requirements

1.8.1 Hardware

Intel Core i5 Processor or higher
8 GB RAM or higher
Color SVGA
500 GB Hard Disk space
Mouse
Keyboard

1.8.2 Software

Technologies to be used:

1. Frontend: HTML5, CSS3, Bootstrap (optional), JavaScript, Figma Toolkit, jQuery, AngularJS/Angular 9/ReactJS, and XML
2. Data Store: JSON/TXT

1.9 Project Deliverables

You will design and build the project and submit it along with a complete project report that includes:

- Problem Definition
- Design specifications
- Diagrams such as flowcharts for various activities, Data Flow Diagrams, and so on
- Source Code
- Test Data Used in the Project
- Project Installation Instructions (if any)

Documentation is considered as a very important part of the project. Ensure that documentation is complete and comprehensive. The consolidated project will be submitted as a zip file with a ReadMe.doc file listing assumptions (if any) made.

Submit a video clip demonstrating the working of the Website. Optionally, a live hosted URL can be supplied for the site. Over and above the given specifications, you can apply your creativity and logic to improve the portal.

~~~ End of Document ~~~

© Aptech Limited 2023