Project Aim, Objectives, Functional and Non-functional Requirements

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1. Project Aim

Design and implement a system which calculates tennis players' points, rankings and awards given scores of games from users, and displays the results on a web interface.

2. Project Objectives

2.1 Research technologies revolving around the project

2.2 Design and develop front-end user interface (UI)

2.3 Design and develop back-end and database referencing the documents

2.4 Test each component of the system and integrate them

2.5 Write documentation about the project

3. Functional Requirements

3.1 Develop Login and Register system for modifying data

3.2 Receive and validate tournament data from logged in users

3.3 Calculate players' points according to their scores

3.4 Update each players' position in a given tournament

3.5 Calculate each players' ranking points

3.6 Produce a list of the players ranking in descending order and display players' positions on a web interface

3.7 Calculate prize money for each player

4. Non-functional Requirements

4.1 Implement password encryption

4.2 The system has the following interface:

4.2.1 Design an intuitive and responsive web-based interface (UI)

4.2.2 Make the interface adhere to Web Content Accessibility Guidelines (WCAG)

4.3 Update data across all devices using concurrency

4.4 Load web-pages under 2 seconds

4.5 Make efficient use of system resources