

Assignment 1

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players:

Requirement number 1

A player would be able to register and login to the system and use his ID and password to log in to his account.

User story:

As a player, I want to register, to be a part of the system.

As a player, I want to log in with ID and password, to access my account.

Tasks:

- 1.1 main menu show two options, option1 manager and option2 player.
- 1.2 We need to show 2 more options to the player, 1.Register 2.Login.
- 1.3 If the player chooses to register, We will Representative to the user the information he needs to enter and a explanation.
- 1.4 The player needs to enter full name with a requirement for a capital first letter in the first name and a capital first letter in the last name, In addition, the player needs to enter a email address, requesting an email template for example: user@example.com, Show the examples and requirements from the user, Ask the player to enter phone number with a requirement of 10 digits, ID number with a requirement of 9 digits and a password.
- 1.5 After the player has registered the information is inserted to a database that saves the information of the players
- 1.6 After a successful registration, show to the player a success message.
- 1.7 If the player choose option2 (Login) He needs to enter the ID number and password, we need to check the input of the ID number, and password from the database, and connect all the information.
- 1.8 After a successful Login show to the player a success message of login.

Requirement number 2

A Player would be able to schedule and cancel a game from a given set of dates and times.

User story:

As a player, I want to be able to schedule a game, to play the game.

As a player, I want to be able to cancel a game, to clear my schedule if necessary.

Tasks:

2.1 We will show to the player an option in main menu to schedule or cancel a game.

2.2 if the player choose to schedule a game, we will ask the player to enter a city and type of game he want to schedule a game, then we will show him a list of all the available dates and time of this city, the player needs to choose a specific date to schedule a game, we need to check if the city is valid, and the type of game is valid too.

2.3 After the player chose the date, we will present him a successful schedule message.

2.4 If the player chose to cancel the game, we will present him the list of his scheduled games, and he needs to choose which game to cancel with a serial number, and we need to cancel the game he chose and check the input of the serial number he entered.

2.5 When the player finish to cancel a game we will present him a successful cancel message.

Requirement number 3

A Player would be able to look for a field in a specific city and a specific type of game.

User story:

As a player, I want to be able to filter field searches by a specific city and a preferred type of game, to make the search process easier.

Tasks:

3.1 After player logged in, we will represent him a menu with an option to look for a specific city and a specific type of game.

3.2 When the player choose this option, We will ask him to choose a city from a list of the cities we have, we need to check the input of the option he entered, In addition we will ask the player to choose a game from the list of the games we have, and check the input of it.

3.3 Show the list of fields according to the player's filter.

Requirement number 4

As part of the registration process the player will have to fill in personal details for his profile and will be able to edit it later (at least 5 fields).

User story:

As a player, I have to add personal details, Because I want to register.

As a player, I can edit my personal details later, to keep the details relevant.

Tasks:

4.1 When a player initiates the registration process, the system should present a registration form requesting at least 5 personal details (name, gender, birthdate, phone number, Email).

4.2 For every personal detail we have input requirements:

- Name: enter full name with a requirement for a capital first letter in the first name and a capital first letter in the last name
- Gender: enter F or M with check if the char is a upper or lower case and fix
- ID number: a requirement of 9 digits
- Birthdate: birthday input with a birthday pattern: dd/mm/yyyy with check if the date is valid.
- Phone Number: not more 10 digits when the format is: 05*****
- Email: Email pattern for example: user@example.com

4.3 After a successful registration show to the player a successful message.

4.4 After the registration, the system should provide an option for the player to edit their personal details.

4.5 After editing personal details, the system should provide a "Save Changes" option. clicking on this option should save the modifications made to the player's profile.

Requirement number 5

A Player would be able to view a list of his scheduled games.

User story:

As a player, I want to be able to view my scheduled games, In order to arrange my schedule as I wish.

Tasks:

5.1 From the menu, create a option to view the scheduled games of the player.

5.2 A list of the games and additional information about the games showed to the player.

5.3 The player can cancel a game from the list or edit the game.

5.4 If the player choose to cancel a game we need to show him a list of the games with serial number, and the player need to choose the serial number of the game he wants to delete, we need to check the input of the serial number.

5.6 After he canceled a game, success message is showed.

Requirement number 6

A user will be able to see the history of the games or the courts he played in.

In order for him to be able to track his training statistics or his training frequency and extract information from them as he wishes.

User story:

As a player, I want to be able to see the history of my games, to generate essential data for me.

As a player, I want to be able to see the history of the courts he played in, In order to re-determine a lot efficiently and quickly.

Tasks:

6.1 From the main menu, when player is logged in, we need to show an option to see the history of the games and courts he played in.

6.2 If the player choose the option, he have two more options, first one to view the history of game, and second one to view the courts he played in.

6.3 If the player is a new player, he doesn't have any history, so we will show him a message, you don't have any history yet.

6.4 If the player has history and he choose option 1 to view the history of games, we will show him all the games he played, the game session time, the type of the game, time and date, we need to check the input of the player.

6.5 If the player choose option 2 to view the history of the courts, we will show him the courts he played in, and a option to choose the court to view more details about, like, location, type of court, and a option to fast order again the court, check the input of the player.

6.6 If the player order again, we will show him a successful order message.

Requirement number 7

The player will be able to rate the field he played on according to the experience of the game and the conduct of the field

User story:

As a player, I want to be able to rate the field, to transfer the game experience to the field manager.

Tasks:

7.1 The player from the main menu, have a option to see his last games.

7.2 From the option, the player can see his last games, and all the information about them, he need to choose a option to rate the specific field he choose.

7.3 After he choose the option to rate the specific field, the player can rate the field with rate between 1-5.

7.4 check the input validation of the player so it will be between 1-5.

7.5 In addition, check the validation of all the inputs the player enter to the menus.

7.6 After the player rate the field he wanted, show him a successful rate message.

Fields managers:

Requirement number 1

A Field manager would be able to register and login to the system and use his ID and password to log in to his account.

User story:

As field manager, I want to be able to register to the system, to be part of the management software.

As a field manager, I want to log in to the system using ID number and password, to be able to edit fields.

Tasks:

- 1.1 main menu show two options, option1 manager and option2 player.
- 1.2 We need to show 2 more options to the player, 1.Register 2.Login.
- 1.3 If the manager chooses to register, We will Representative to the user the information he needs to enter and a explanation.
- 1.4 The manager needs to enter full name with a requirement for a capital first letter in the first name and a capital first letter in the last name, In addition, the player needs to enter a email address, requesting an email template for example: user@example.com, Show the examples and requirements from the user, Ask the player to enter phone number with a requirement of 10 digits, ID number with a requirement of 9 digits and a password.
- 1.5 After the manager registered all the information of him inserted to Database that save all the information of the manager.
- 1.6 After a successful registration, show to the player a success message.
- 1.7 If the manager choose option2 (Login) he need to enter us the ID number and password, we need to check the input of the ID number, and password from the database, and connect all the information.
- 1.8 After a successful Login show to the player a success message of login.

Requirement number 2

A Field manager would be able to view all the scheduled games to a given date or given field.

User story:

As a field manager, I want to be able to view all the scheduled games, So that I can manage the orders properly.

Tasks:

2.1 After the manager registered and logged in, we will present him a menu, a special one for the manager, we need to create an option for the manager to view all the scheduled games.

2.2 when the manager chooses this option we need to ask him if he wants to search by date or by field, if the manager chose by date we need to ask him to insert a date with an input check and present to the manager the format we want him to write us the date, dd/mm/yyyy, and we need to check the validation of the date.

2.3 if the manager chooses to filter the view by fields, we will ask him to insert a field, by type of game and location, and we need to check if the inputs are valid.

2.4 after all the insertions we will present to the manager the list of the scheduled games with the filter he chose.

Requirement number 3

A Field manager would be able to mark dates as “unavailable” so players will not be able to schedule games on those dates.

User story:

As a field manager, I want to be able to mark dates as unavailable, So that I can effectively manage the field schedule and prevent games from being set on specific dates.

Tasks:

3.1 The manager can choose the option from the main menu of the manager, to mark dates as unavailable.

3.2 when the manager choose the option, we will ask the manager to enter a date, with a validation check for date.

3.3 after the manager chooses the dates and enter them to the system, we need to change the availability of the fields on this dates.

3.4 show to the manager the successful message for the change of the availability of the fields.

Requirement number 4

A Field manager will be able to add and delete fields.

User story:

As a field manager, I want to be able to add fields, In order to add another field to the player's options.

As a field manager, I want to be able to delete fields, to prevent players from setting up a game on an unusable court.

Tasks:

4.1 Create a option where the user will choose which action he wants to perform (adding/deleting).

4.2 Create a data structure that will store and secure each fields data.

4.3 For each field, we will require the manager to enter details about the field.

4.4 When the manager choose to add field, we will ask him to insert details about the field, such as, serial number, type of field, type of game, and check the validation of the input from the manager.

4.5 after the insertion, add the new field to the data structure, so if player want to schedule game, he can see the new field.

4.6 print a successful add field message.

4.7 when the manager choose to delete a field, we will ask the manager to insert details to find the field, like serial number of the field, type of game and type of field, with a input validation check.

4.8 after the validation, delete the specific field from the date structure.

4.9 print a successful delete field message.

Requirement number 5

A Field manager would be able to edit his profile, the profile must contain 5 fields. (the following fields are mandatory: name, gender, birthdate. You are able to choose the other two)

User story:

As a field administrator, I would like to have the ability to edit my profile information to ensure that my information is relevant.

Tasks:

5.1 From the main menu of the manager, we will present him a option to edit his profile.

5.2 in this option we will show him the edit option list, what he want to update, such as, name, gender, birthdate, password, Email, phone number, with a different validation process for each on of the details.

5.3 the manager details will change after the insertion of the details he want to update, and after the check.

5.4 show the manager a successful update details message.

Requirement number 6

A manager can be manager of the month if the rating of the field he is responsible for, is the highest rating among all managers.

User story:

As a manager, I would like to be evaluated as manager of the month if the rating of the area I am responsible for is the highest among all managers, so that I can be rewarded for my performance.

Tasks:

6.1. The manager's rating will be defined according to the players' playing experience, the level of cleanliness on the field and the nature of the response given by the field manager to the player's appeal to the manager

6.2. Implementation of a rating system: Development and implementation of a rating system that calculates the rating for each field according to the defined criteria. This may involve designing algorithms or formulas to aggregate and analyze data.

6.3. Integrate rating system with manager profiles: Integrate the rating system with each manager's profiles, ensuring that their area rating is accurately documented and updated.

6.4. Identify Responsible Fields: Identify the fields each manager is responsible for and ensure that their associated ratings are properly linked to the appropriate managers.

Non-functional requirements number 1:

User with disabilities,

The system should adhere to accessibility standards to ensure that users with disabilities can interact with it effectively.

User story:

As a user with disabilities, I want the system to adhere to accessibility standards So that I can interact with it effectively, regardless of my impairment or limitations.

Non-functional requirements number 2:

The system should be designed to handle and recover gracefully from hardware failures, network issues, or other unexpected errors without losing critical scheduling data.

User story:

As a user relying on the system for scheduling purposes,

I want it to handle hardware failures, network issues, or unexpected errors gracefully

So that critical scheduling data is not lost or compromised.

Non-functional requirements number 3:

The system should be capable of handling a large number of concurrent users and scheduling operations without significant degradation in performance.

User story:

As a user who expects efficient performance,

I want the system to handle a large number of concurrent users and scheduling operations, So that I can rely on it to manage scheduling tasks without experiencing significant slowdowns or delays.

Future requirement number 1:

The manager will optimize scheduling with the help of AI and machine learning based on historical data, team performance and other relevant factors.

User story:

As a manager, I want to optimize scheduling using AI and machine learning from historical data, team performance, and other relevant factors, so that I can efficiently allocate resources and field deadlines.

Future requirement number 2:

Develop dedicated mobile applications for iOS and Android platforms to offer on-the-go access for administrators, and players.

User story:

As an administrator, or player, I want to use mobile applications on both iOS and Android platforms so that I can access relevant information and tools on-the-go, facilitating communication, planning, and tracking of tasks and activities related to my role within the organization.

Future requirement number 3:

A player will be able to navigate to the field using fast navigation in cooperation with Waze

User story:

As a player, I want to utilize fast navigation to reach the field promptly for practices and games. By integrating with Waze, to see real-time updates on traffic conditions, and the fast way to arrive to the field.