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| **URS DuelSys inc. Software Solution** |
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# User Cases

## UC\_01: Login Web Application

**Actor:** User (Staff, Player)

**Trigger:** User opens the web application

**Pre-condition:** User must have an account.

### Main success scenario:

This use case starts when a user wishes to log into the application.

1. User opens the web application
2. User clicks the login button on the menu bar
3. System directs the user to the login page
4. New opened page requires username and password
5. User enters both username and password
6. The system validates filled fields
7. The system directs the user to the main screen.

### Extensions:

6-a Invalid username or password. If the actor enters an incorrect username or password, the system displays an error message. The User can choose to enter another username and/or password (return to point 1.4) or cancel the login, at which point the use case ends.

## UC\_02: Create Account

**Actor:** User (Player)

**Trigger:** Button “Sign Up” is triggered

**Pre-condition:** none

### Main success scenario:

1. User opens the web application
2. User clicks the sign-up button on menu bar
3. System directs the user to the sign-up page
4. User fills the required fields (username, password, email, name, and surname)
5. User clicks sign up button
6. The system validates all fields if they are filled properly.
7. The system checks if the username and email are existed
8. The system informs the user that the account is successfully created
9. The system directs user to the main page

### Extensions:

6-a Field is left empty or is not filled as it is supposed to. The system shows an “validation error” message. User is directed to new sign-up page back.

7-a Username or password already exists. The system displays a "Username already exists" or "Email already exists" message. User is directed to new sign-up page back.

## UC\_03: Create Staff

**Actor:** User (Staff)

**Trigger:** Button “Sign Up” is triggered

**Pre-condition:** User should log in with an Staff account

### Main success scenario:

1. User opens the Desktop application
2. User clicks the sign-up button on menu bar
3. System directs the user to the sign-up page
4. User fills the required fields (username, password, email)
5. User clicks sign up button
6. The system validates all fields if they are filled properly.
7. The system checks if the username and email are existed
8. The system informs the user that the account is successfully created
9. The system directs user to the main page

### Extensions:

6-a Field is left empty or is not filled as it is supposed to. The system shows an “validation error” message. User is directed to new sign-up page back.

7-a Username or password already exists. The system displays a "Username already exists" or "Email already exists" message. User is directed to sign-up page back.

## UC\_04: Manage Tournament

**Actor:** Staff

**Trigger:** Button “Generate Tournament” is triggered

**Pre-condition:** 1- User must be a Staff, 2- Must be more than a week before the start of the tournament

### Main success scenario:

1. User cliks tournament button on the menu bar
2. System directs the user to the tournament page
3. User clicks “New Tournament” button
4. System directs the user to the new tournament page
5. User fills the required fields (tournament name, sport type , description, location, start date, max player, min players)
6. The system validates all fields if they are filled properly
7. The system checks if the there is at least 1 week before starting date
8. System creates a new tournament
9. User directs to the tournaments page

### Extensions:

3-a Unauthorize user try to create a new tournament. System throw an “Unauthorize user” exception.

6-a Field is left empty or is not filled as it is supposed to. The system shows an “validation error” message. User is directed to new tournament page back.

7-a There is less than 1 week before starting time. The system shows an “Missing Deadline” exception. User is directed to new tournament page back.

## UC\_05: Register for a Tournament

**Actor:** Player

**Trigger:** Button “Join” is triggered

**Pre-condition:** 1- User must be log in as a Player, 2- Must be more than a week before the start of the tournament

### Main success scenario:

1. User cliks tournaments button on menu bar
2. System directs user to the tournament page
3. User select one of the applicable tournaments and clicks it
4. System directs user a page of this tournament
5. User clicks “Join” button
6. System checks the starting date of the tournament
7. System checks the max number of the players
8. The system validates all fields if they are filled properly
9. System adds the user the tournament list
10. System gives an “Successfully registered” message
11. System directs user to the home page

### Extensions:

6-a System throw an “Missing Deadline” exception.

7-a System throw an “Exceeding the maximum number” exception.

8-a Field is left empty or is not filled as it is supposed to. The system shows an “validation error” message. User is directed to tournament page back

## UC\_06: Generate the Tournament schedule

**Actor:** Staff

**Trigger:** Button “Generate Schedule” is triggered

**Pre-condition:** Must be logged in with Staff account

### Main success scenario:

1. User clicks the tournament button on the menu bar
2. System directs user to the tournaments page
3. User selects one of the tournaments
4. System directs the user to selected tournament page
5. User clicks the “Generate Schedule” button
6. System checks the starting date of the tournament
7. System checks the max and min number of the players
8. The system validates all fields if they are filled properly
9. System generates the schedule of the tournament
10. System shows and “schedule generated” message
11. System directs the user to the main page

### Extensions:

6-a System throw an “Missing Deadline” exception. User is directed to tournament page back

7-a System throw an “Exceeding the maximum number” exception. User is directed to tournament page back

7-b System throw an “Less than minimum number participants” exception. User is directed to tournament page back

8-a Field is left empty or is not filled as it is supposed to. The system shows an “validation error” message. User is directed to tournament page back

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## UC\_07: Register the Result of the Games

**Actor:** Staff

**Trigger:** Button “Add” is triggered

**Pre-condition:** Must be logged in with Staff account

### Main success scenario:

1. User clicks the matches button on the menu bar
2. System directs user to the matches page
3. User fills the required fields (match id, tournament id, date, scores)
4. User clicks the “Add” button
5. The system validates all fields if they are filled properly
6. System checks if the score is valid for the sport type
7. System shows a “Successfully added” message
8. System saves the changes

### Extensions:

5-a Field is left empty or is not filled as it is supposed to. The system shows an “validation error” message. User is directed to “matches” page back

6-a User input invalid score. System throws an “Result Validation” message. User is directed to “matches” page back

## UC\_08: Showing Tournament Information and Result

**Actor:** Staff, Player

**Trigger:** Icon “Tournament” is triggered

**Pre-condition:** None

### Main success scenario:

1. User opens the web application
2. User clicks the tournament button on the menu bar
3. System directs user to the “Tournaments” page
4. User clicks one of the tournaments in the list
5. System directs user to the selected tournament page

### Extensions:

## UC\_9: Generate Leader Board

**Actor:** Staff, Player

**Trigger:** Icon “Leader Board” is triggered

**Pre-condition:** None

### Main success scenario:

1. User opens the web application
2. User clicks the “Leader Board” button on the menu bar
3. System directs user to the “Leader Board” page
4. System generates the “Leaders List”

### Extensions: