

**DuelSys inc.**  
**Sport Tournament Manager**

User Requirement Document  
Version 3.1

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# 1 Versioning

Version	Description	Date
1.0	Initial release	Monday, May 9th 2022
2.0	<ul style="list-style-type: none"><li>• Add versioning</li><li>• Add MoSCoW analysis</li></ul>	Friday, June 3rd 2022
3.0	Add extra UC's	Tuesday, June 7th 2022
3.1	Spelling fixes & better clarification	Thursday, June 9th 2022

## **2 Actors**

Our solution, as mentioned by the client, will consist of several features that are divided or shared between certain actors. The application will differentiate between the following actors:

- Administrator
- Staff (sport association)
- Player

### **2.1 Administrator**

The administrator has access to all aspects of the application. They have access to all user data (except for sensitive data like passwords).

### **2.2 Staff**

The staff consists of associates of the sport associations that utilize the application to manage their tournaments. The staff will be able to organize tournaments through the desktop application.

### **2.3 Players**

Players are the people registered to a sport association. Through the website players can sign up for tournaments.

### **2.4 Non-registered users**

These users can browse through all registered tournaments, both past, present, and future (if any). They can also view the details of a tournament, such as the leaderboard, the current standing / results, the matchups, etc.

### 3 Functional Requirements

1. **FR-01:** Login to the system  
Users should be able to log in on both the website and the Windows application. The accessible features depends on the role of the user's account.
  - (a) **FR-01-C-01:** Only administrators and staff are able to login on the desktop application. Players only have access to the website.
2. **FR-02:** Registering a new account  
Only administrators and staff can create new accounts. What kind of account they can create depends on their role.
  - (a) **FR-02-C-01:** Administrators can create every type of account
  - (b) **FR-02-C-02:** Staff can only create player accounts and staff accounts
3. **FR-03:** Manage tournaments  
Staff must be able to manage (create, update, delete, etc.) the tournaments. This includes the following information:
  - The type of sport
  - A description
  - Information about duration (start and end dates)
  - The minimum and maximum amount of players
  - Location information
  - Tournament system informationAfter creating a tournament, players can register themselves for it.
  - (a) **FR-03-C-01:** Only staff can manage tournaments (create, update, delete, etc.)
4. **FR-04:** Registering for participation in tournaments  
Any interested player with an account can sign up for a tournament by going to the website, browse through the list of available tournaments, and register themselves for it.
  - (a) **FR-04-C-01:** Only logged in players can sign up for a tournament.
  - (b) **FR-04-C-02:** Registration is only possible if the maximum players hasn't been reached.
  - (c) **FR-04-C-03:** Registration is only possible if the start date of the tournament is more than a week away.

5. **FR-05:** Generate tournament schedule  
Staff must be able to generate a tournament's schedule.
  - (a) **FR-05-C-01:** Only generate a schedule once the registration deadline has passed and the minimum amount of players has been met.
6. **FR-06:** Registering match results  
After a match has been finished the results must be registered in the system by staff.
  - (a) **FR-06-C-01:** The result should match the scoring system of the relevant sport
7. **FR-07:** Display tournament information and results  
Any interested party should be able to fetch the information of any given tournament. The information displayed should contain the following:
  - Tournament information
  - Tournament schedule with all matches between players and, if any, the results of played matches
8. **FR-08:** Support multiple tournament systems  
When creating a new tournament, allow staff members to specify what tournament system should be used for the tournament.
9. **FR-09:** Support leader board  
In any ongoing tournament any user can retrieve a list of the current player standings in the tournament. The list will be ordered based on their current rank / position in the tournament.

## 4 Prioritization (MoSCoW)

The priorities for the project are as follows:

<b>Must Haves</b>	<ul style="list-style-type: none"><li>• Tournament manager for staff (creation, viewing, updating, deleting)</li><li>• Account creation for staff</li><li>• Generate tournament schedule</li><li>• Match result registration for staff</li><li>• Tournament registration for players</li><li>• Website to allow anyone to view information of any given tournament</li></ul>
<b>Should Haves</b>	<ul style="list-style-type: none"><li>• Support multiple tournament systems</li><li>• Support leader board for tournaments</li></ul>
<b>Could Haves</b>	<ul style="list-style-type: none"><li>• Support multiple sport types</li></ul>
<b>Won't Haves</b>	<ul style="list-style-type: none"><li>• Player profiles with player statistics</li><li>• Allow players to challenge other players</li><li>• Handling ties</li></ul>

## 5 Use Cases

UC-01	Log in to the desktop / web application
Actor	Administrators, staff
Related FR	FR-01
Pre-condition	<ol style="list-style-type: none"><li>1. Actor has to have an account</li><li>2. Actor is on the login screen</li></ol>
MSS	<ol style="list-style-type: none"><li>1. Actor fills in the requested credentials</li><li>2. System validates the given credentials</li><li>3. System grants access to the application</li></ol>
Ext.	<ol style="list-style-type: none"><li>1. Actor did not fill in the correct credentials<ul style="list-style-type: none"><li>• System displays a message that the credentials were incorrect</li><li>• Return to MSS step 1</li></ul></li></ol>



UC-02	Registering a new account
Actor	Administrators, Staff
Related FR	FR-02
Pre-condition	<ol style="list-style-type: none"> <li>1. Actor is logged in as administrator or staff</li> <li>2. Actor is on the account creation page</li> </ol>
MSS	<ol style="list-style-type: none"> <li>1. Actor enters the required data and confirms</li> <li>2. System validates the entered information</li> <li>3. System checks if the entered email isn't taken yet</li> <li>4. System saves the account information</li> <li>5. System displays a success message</li> </ol>
Ext.	<ol style="list-style-type: none"> <li>1. The entered input was incomplete or incorrect <ul style="list-style-type: none"> <li>• System displays error message informing the actor that not all information has been (properly) entered</li> <li>• Return to MSS step 1</li> </ul> </li> <li>2. The email address is already taken <ul style="list-style-type: none"> <li>• System displays a message informing the actor that the email address is already taken</li> <li>• Return to MSS step 1</li> </ul> </li> </ol>

UC-03	Create a new tournament
Actor	Administrators, Staff
Related FR's	FR-03 & FR-09
Pre-condition	<ol style="list-style-type: none"> <li>1. Actor must be logged in as staff</li> <li>2. Actor is on the tournament page</li> </ol>
MSS	<ol style="list-style-type: none"> <li>1. Actor enters the required information</li> <li>2. Actor selects a tournament style</li> <li>3. Actor confirms entered information</li> <li>4. System validates the entered</li> <li>5. System inserts the new tournament</li> <li>6. System displays a success message</li> </ol>
Ext.	<ol style="list-style-type: none"> <li>1. The entered input was incomplete or incorrect <ul style="list-style-type: none"> <li>• System displays error message informing the actor that not all information has been (properly) entered</li> <li>• Return to MSS step 1</li> </ul> </li> </ol>

UC-04	Update existing tournament information
Actor	Administrators, Staff
Related FR	FR-03
Pre-condition	<ol style="list-style-type: none"> <li>1. Actor must be logged in as staff</li> <li>2. Actor is on the tournament page</li> </ol>
MSS	<ol style="list-style-type: none"> <li>1. Actor selects a tournament from the list view</li> <li>2. System displays the information of the selected tournament</li> <li>3. Actor modifies any of the values in the input fields</li> <li>4. Actor clicks on the update button</li> <li>5. System validates the entered information</li> <li>6. System updates the tournament information</li> <li>7. System displays a success message</li> </ol>
Ext.	<ol style="list-style-type: none"> <li>1. The entered input was incomplete or incorrect <ul style="list-style-type: none"> <li>• System displays error message informing the actor that not all information has been (properly) entered</li> <li>• Return to MSS step 3</li> </ul> </li> </ol>

UC-05	Update tournament status
Actor	Administrators, Staff
Related FR	FR-03
Pre-condition	<ol style="list-style-type: none"> <li>1. Actor must be logged in as staff</li> <li>2. Actor is on the tournament page</li> </ol>
MSS	<ol style="list-style-type: none"> <li>1. Actor selects a tournament from the list view</li> <li>2. System enables the applicable status buttons</li> <li>3. Actor clicks on an enabled status buttons</li> <li>4. The status of the tournament is updated</li> </ol>
Ext.	<ol style="list-style-type: none"> <li>1. The status could not be updated <ul style="list-style-type: none"> <li>• System displays error message informing the actor that the status could not be updated</li> <li>• Return to MSS step 1</li> </ul> </li> </ol>

UC-06	Delete tournaments
Actor	Administrators, Staff
Related FR	FR-03
Pre-condition	<ol style="list-style-type: none"> <li>1. Actor must be logged in as staff</li> <li>2. Actor is on the tournament page</li> </ol>
MSS	<ol style="list-style-type: none"> <li>1. Actor selects a tournament from the list view</li> <li>2. Actor clicks on the delete button</li> <li>3. System asks for confirmation</li> <li>4. Actor confirms deletion</li> <li>5. System deletes the tournament</li> <li>6. System displays a success message</li> </ol>
Ext.	<ol style="list-style-type: none"> <li>1. Actor cancels deletion <ul style="list-style-type: none"> <li>• End of MSS</li> </ul> </li> </ol>

UC-07	Registering for participation in a tournament
Actor	Players
Related FR	FR-04
Pre-condition	<ol style="list-style-type: none"> <li>1. Actor must be logged in as player</li> <li>2. Actor is on a specific tournament page</li> </ol>
MSS	<ol style="list-style-type: none"> <li>1. Actor clicks on register button under tournament information</li> <li>2. System checks whether the date is at least a week away from starting</li> <li>3. System checks for available spots in tournament</li> <li>4. System registers actor to tournament</li> <li>5. System displays confirmation message of successful registration</li> </ol>
Ext.	<ol style="list-style-type: none"> <li>1. No spots left in tournament <ul style="list-style-type: none"> <li>• System displays message that there are no more spots open</li> <li>• Return to MSS step 1</li> </ul> </li> <li>2. Date of registration is within a week of start of tournament <ul style="list-style-type: none"> <li>• System displays message that registration is no longer open for selected tournament</li> <li>• Return to MSS step 1</li> </ul> </li> </ol>

UC-08	Deregistering from tournament
Actor	Players
Related FR	FR-XX
Pre-condition	<ol style="list-style-type: none"> <li>1. Actor must be logged in as player</li> <li>2. Actor is on a specific tournament page</li> </ol>
MSS	<ol style="list-style-type: none"> <li>1. Actor clicks on register button under tournament information</li> <li>2. System checks whether the date is at least a week away from starting</li> <li>3. System checks for available spots in tournament</li> <li>4. System registers actor to tournament</li> <li>5. System displays confirmation message of successful registration</li> </ol>
Ext.	<ol style="list-style-type: none"> <li>1. Actor is not registered to tournament <ul style="list-style-type: none"> <li>• System displays message that they are not registered.</li> <li>• Return to MSS step 1</li> </ul> </li> </ol>

UC-09	Generate tournament schedule
Actor	Administrators, Staff
Related FR	FR-05
Pre-condition	<ol style="list-style-type: none"> <li>1. Actor logged in as staff</li> <li>2. Actor is on tournament page</li> <li>3. Tournament doesn't already have a schedule</li> </ol>
MSS	<ol style="list-style-type: none"> <li>1. Actor clicks on "Generate Schedule" button</li> <li>2. System checks if tournament can be started</li> <li>3. System disables registrations for tournament</li> <li>4. System generates tournament schedule</li> <li>5. System displays success message</li> </ol>
Ext.	<ol style="list-style-type: none"> <li>1. The tournament couldn't be started because there are either not enough contestants or the start date is more than a week away <ul style="list-style-type: none"> <li>• System displays error message that the tournament could not be started</li> <li>• End of MSS</li> </ul> </li> </ol>



UC-10	Registering match results
Actor	Administrators, Staff
Related FR	FR-06
Pre-condition	1. Actor must be on match page
MSS	<ol style="list-style-type: none"> <li>1. Actor enters results</li> <li>2. Actor confirms results</li> <li>3. System saves results</li> <li>4. System displays success message</li> </ol>
Ext.	<ol style="list-style-type: none"> <li>1. The entered input was incomplete or incorrect <ul style="list-style-type: none"> <li>• System displays error message informing the actor that not all information has been (properly) entered</li> <li>• Return to MSS step 1</li> </ul> </li> </ol>

UC-11	Display tournament information, results, and leader board
Actor	Everyone
Related FR's	FR-07 & FR-10
Pre-condition	1. Actor is on tournament listings page
MSS	<ol style="list-style-type: none"> <li>1. Actor clicks on a tournament</li> <li>2. System requests the selected tournament's information</li> <li>3. System obtains the selected tournament's information</li> <li>4. System displays the requested information</li> </ol>