**Document versioning**

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| Version | Description | Date | Author |
| 1.0 | * First version of the document | 13-05-2022 | Radoslav Radev |

**Agreements with client**

The stakeholders of this project are student **Radoslav Radev** as well as tournament organizer company ***DuelSys Inc.***

**Functional requirements**

The project is an autonomous software solution for tournament management

Core Features

**Features include:**

* *FR-01: Stuff members must be able to manage (CRUD) the tournaments*
* *FR-02: Athletes should be able to make an account*
* *FR-03: Athletes should be able to register for a tournament*
* *FR-43: Stuff members must be able to generate tournament`s schedule*
* *FR-04: Stuff members should be able to register tournament results in the system*
* *FR-05: Any interested party should be able to retrieve information about any given tournament*

Major Feature

**Feature includes:**

* *FR-06: Support multiple tournement systems*

Minor Features

**Feature includes:**

* *FR-10: Generate player profile*

**Desktop application Use Cases**

**UC-3**: User wants to create a tournament

* **Actor:** Stuff member
* **Main Success Scenario**
* The user navigates to the “Tournament” section.
* System requests details for the new tournament.
* The user fills out the required information.
* Actor confirms the creation.
* The system displays a confirmation message.
* **Extensions**

4a. The provided information is insufficient

.1: The system displays an error message.

.2: Return to MSS step 2.

4b. One or more fields are empty

.1: The system displays an error message.

.2: Return to MMS step 2.

**UC-4**: User wants to update tournament details

* **Actor:** Stuff member
* **Main Success Scenario**
* The user navigates to the “Tournament” section
* The user clicks on the desired tournament in the list of all tournaments
* The actor edits existing information.
* The actor confirms the change.
* System displays a confirmation message
* **Extensions**

5a. One or more fields are empty

.1: System displays an error message

.2: Return to MSS step 3

5b. The information is insufficient

.1: System displays an error message

.2: Return to MMS step 3

**UC-5:** User wants to delete a tournament

* **Actor:** Stuff Member
* **Main success scenario:**
* The user navigates to the “Tournament” section
* The user clicks on the desired tournament in the list of all tournaments
* The system displays the information about the chosen tournament
* The user confirms the deletion
* The system displays a confirmation message

**UC-7:** User wants to fill out tournament match results

* **Actor:** Stuff member
* **Main success scenario:**
* The user navigates to the “Game” section
* The user clicks on the desired tournament in the list of all tournaments
* System displays the schedule of all matches in the tournament
* The user fills out the match results
* The user confirms the action
* **Extensions:**

2a There players registered for the set tournament haven't reached the minimal

.1 System displays an error message

.2: Return to MSS step 2

5a. One or more fields are empty

.1: System displays an error message

.2: Return to MSS step 2

5b. The match result is over 30

.1: System displays an error message

.2: Return to MMS step 2

5c. The information is insufficient

.1: System displays an error message

.2: Return to MMS step 2

**Web application Use Cases**

**UC-8:** Athlete wants to log in

* **Actor:** athlete
* **Trigger:** Open website`s login page
* **Main Success Scenario:**
* System requests for a username and a password
* The user enters their username and password
* The user clicks Login button
* System approves the credentials and opens a new window
* **Extensions:**

3A: The provided information is incorrect

.1: System displays an error message

.2: Return to MSS step 1

**UC-9:** Athlete wants to Register in

* **Actor:** Athlete
* **Trigger:** Clicks create an account in Login page
* **Main Success Scenario:**
* System requests for details for account creation
* The athlete enters required details
* The athlete confirms the action
* System approves the credentials and redirects the customer to the home page
* **Extensions:**

3a: The username is already in use

.1: System displays an error message

.2: Return to MSS step 1

3b. The inputted data is incorrect

.1: System displays an error message

.2: Return to MMS step 1

**UC-10:** User wants to log out

* **Actor:** Athlete
* **Pre-condition:** Actor is logged in (UC-1)
* **Main success scenario:**
* The Athlete clicks on the logout button in the navbar
* The system redirects the athlete to the home page

**UC-11:** Athlete wants to join a tournament

* **Actor:** Customer
* **Pre-condition:** Actor is logged in (UC-1)
* **Main success scenario:**
* The user navigates to the “SignUpForTournament” page
* System displays all available tournaments
* The user attends the wanted tournament by pressing the “Join” button
* **Extensions:**

3a. The user can`t attend a tournament because it's 7 days before the tournament

.1: tournament`s join button is graded out

.2: Return to MSS step 2

**UC-12:** User wants to leave a tournament

* **Actor:** Customer
* **Pre-condition:** Actor is logged in (UC-1), Actor is attending a tournament (UC-11)
* **Main success scenario:**
* The athlete navigates to the “SignUpForTournament” page
* System displays all available tournaments
* The athlete leaves the tournament by pressing the “UnJoin” button beside the tournament
* athlete is removed from the tournament
* **Extensions:**

3a. The tournament date is less than a week from the current time

.1: The system displays an error message.

.2: Return to MSS step 2.

**UC-13:** User wants to see results of an already played tournament

* **Actor:** User
* **Pre-condition:** Actor is logged in (UC-1)
* **Main success scenario:**
* The actor navigates to the “TournamentOverview” page
* System displays all tournaments
* The user searches the wanted tournament
* The user clicks “Results” on the wanted tournament
* System displays the results of a wanted tournament
* **Extensions:**

4a. The tournament has not been completed and the minimum amount of players has been reached

.1: System Replaces "Results" with "Schedule" button

.2: Return to MSS step 4.

5a. The tournament has not reached the minimum number of contestants

.1:.1: System Replaces "Results" with a graded out "Schedule is not jet available" button

6a. The tournament has been canceled

.1: System Replaces "Results" with a graded out "Tournament has been canceled" button

.2: Return to MSS step 4