

urs dualsys

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# Client

DuelSys inc. wants a software solution to allow their customers (sport associations) to manage their sport tournaments. The software needs to at least support a round-robin1 tournament system for badminton with possibilities to support other tournament types and sports for now.

A tournament has multiple players competing in badminton games to determine who is the best (e.g. gold, silver and bronze medal). To determine this, the purpose of the software is to register all the results of each game. This software solution will be used by sport association staff (staff) to organize tournaments and by players to find information about the tournament(s) they want to participate in.

# Functional requirements

|  |  |  |
| --- | --- | --- |
| ID | Requirement | Needs to be in |
| FR-01 | Manage Tournaments. Staff must be able to manage (CRUD operations) the tournaments. Make sure to include the information given in Process of running a tournament Phase 1. | This requirement must be implemented in a desktop application. |
| FR-02 | Support registering players. When a player is interested in participating in a tournament, they can visit the sport association website, retrieve the list of available tournaments, and register themselves for it. Make sure to at least follow the information given in Process of running a tournament Phase 2. | This requirement must be implemented in a web application. |
| FR-03 | Support generating tournament schedule.  Staff must be able to generate the tournament’s schedule. Make sure to at least follow the information given in Process of running a tournament Phase 3. | This requirement must be implemented in a desktop application |
| FR-04 | Support registering the results of the games.  When a game between two players is finished, the results must be registered in the system by staff. Make sure to at least follow the information given in Process of running a tournament Phase 3. | You can decide whether this should be done in a web or desktop application.  The chosen method is for the desktop to handle this |
| FR-05 | Support showing tournament information and results.  Any interested party (e.g. a sport enthusiast, a player) must be able to retrieve information about any given tournament. Make sure to at least follow the information given in Process of running a tournament Phase 4. | This requirement must be implemented in a web application |
| FR-07: | Support multiple sport types. Extend the software solution to also support different sport types (e.g. basketball, tennis, quidditch, league of legends, chess, etc.). It should be possible, for a staff member, to specify which sport type when creating new tournament. Make sure that when registering the result of a game the official scoring rules are followed. |  |
| FR-09 | Support leader board. Extend the software solution to also support a leader board. When there is an ongoing tournament, any interested party (e.g. a sport enthusiast, a player) can retrieve the list of players participating in the tournament, ordered based on their current position/rank in the tournament. |  |
|  |  |  |

# Use cases

## Tournaments

|  |  |
| --- | --- |
| Name | TC-1 Create tournaments |
| Actors | Employee |
| Conditions | Pre: The actor is on the create tournaments page  Post: The actor is on the view tournaments |
| Scenario | 1. System requires data 2. actor gives data 3. System checks data 4. System checks if the tournament can be placed 5. System adds tournament 6. System returns user to last page |
| Extensions | 3.1 Input is incorrect  1. system describes what data parts went wrong  2. system prompts to re-enter valid data  3. The use case goes to step 2  4.1 tournament can’t be placed  1. system describes why this can’t be placed  2. system prompts to enter different data  3. system goes to step 2 |

|  |  |
| --- | --- |
| Name | TC-2 Read tournaments |
| Actors | Employee |
| Conditions | Pre: be logged in as employee and on the view employee page  Post: - |
| Scenario | 1. System gets all tournaments 2. System determines what needs to be showed 3. System shows the tournaments |
| Extensions |  |

|  |  |
| --- | --- |
| Name | TC-3 Update tournaments |
| Actors | Employee |
| Conditions | Pre: be logged in and on the view employee page  Post: - |
| Scenario | 1. Actor clicks on a tournament that needs to be updated 2. System fills already known data in for the actor 3. System prompts actor to change/add data 4. Actor fills in the needed/changed data 5. System validates input 6. System updates tournament 7. System goes to view tournaments 8. System executes TC-2 |
| Extensions | 5.1 Input is incorrect  1. system describes what data parts went wrong  2. system prompts to re-enter valid data  3. The use case goes to step 4 |

|  |  |
| --- | --- |
| Name | TC-4 Delete tournaments |
| Actors | Employee |
| Conditions | Pre:  Post: |
| Scenario | 1. Actor determines which tournament to delete 2. System reads the necessary data from the selected tournament 3. System determines if it can be deleted 4. System deletes tournament 5. System executes TC-2 |
| Extensions | 2.1 system can’t read necessary data  1. system gives message with the given error determined by the system  2. system ends case  3.1 system can’t delete it  1. system gives message with the given error determined by the system  2. system ends case |

|  |  |
| --- | --- |
| Name | TC-5 Show finished tournaments |
| Actors | Employee, anonymously, players |
| Conditions | Pre:  Post: |
| Scenario | 1. System gets all finished tournaments 2. System determines what needs to be showed 3. System shows the tournaments |
| Extensions |  |

|  |  |
| --- | --- |
| Name | TC-6 Search finished tournaments |
| Actors | Employee, anonymously, players |
| Conditions | Pre:  Post: |
| Scenario | 1. Actor gives data to search 2. System checks input 3. System gets data based on the search data 4. System activates TC-5 from step 2 |
| Extensions | 2.1 system gets invalid input  1. system describes what is wrong  2. system prompts actor to change the data that is incorrect  3. system goes to step 1  3.1 no results  1. system gives message that there are no results  2. case ends |

|  |  |
| --- | --- |
| Name | TC-7 Show in progress tournaments |
| Actors | Employee, anonymously, players |
| Conditions | Pre:  Post: |
| Scenario | 1. System gets all in progress tournaments 2. System determines what needs to be showed 3. System shows the tournaments |
| Extensions | * 1. there are no in progress tournaments   1. system shows message that there are none  2. ends case |

|  |  |
| --- | --- |
| Name | TC-8 Show available tournaments |
| Actors | Employee, anonymously, players |
| Conditions | Pre:  Post: |
| Scenario | 1. System gets all available tournaments 2. System determines what needs to be showed 3. System shows the tournaments |
| Extensions | 1.1 there are no available tournaments  1. system shows message that there are none  2. ends case |

## Players

|  |  |
| --- | --- |
| Name | PC-1 Register player |
| Actors | Anonymously |
| Conditions | Pre: actor is not logged in  Post: actor is logged in |
| Scenario | 1. System requests data 2. Actor gives data 3. System validates data 4. System checks if player already exists 5. System adds player 6. System logs actor in |
| Extensions | 3.1 actor gives invalid data  1. system gives message on what part of the data is wrong  2. case goes to step 2  4.1 player already exists  1. system gives actor a message with that the player already exists  2. case goes to step 2 |

|  |  |
| --- | --- |
| Name | PC-2 sign up for tournament |
| Actors | Player |
| Conditions | Pre: needs to be logged in as a player  Post: player is signed up for the tournament |
| Scenario | 1. Actor determines which tournament to sign up for 2. System reads the necessary info 3. System checks if player can still sign-up 4. System request actor if it is sure to be signed up for this tournament 5. Actor determines if they want to sign up for this 6. System reads input from actor 7. System adds player to the tournament 8. System goes to last page |
| Extensions | 2.1 system doesn’t get info  1. system gives message with an error with the given error determined by the system  2.case ends  3.1 actor can’t sign up  1. system gives message with an error with the given error determined by the system  2.case ends  6.1 actor doesn’t want to sign up  1. system goes to last page  2. ends case |

|  |  |
| --- | --- |
| Name | PC-3 Login |
| Actors | Employee, anonymously, players |
| Conditions | Pre: needs to be logged out  Post: actor is logged in |
| Scenario | 1. System requests data 2. Actor gives data 3. System validates data 4. System checks data with the data in the database 5. System logs actor in |
| Extensions | 3.1 actor gives invalid data  1. system gives message on what part of the data is wrong  2. case goes to step 2  4.1 there are no results  1. system messages actor about wrong input  2. case goes to step 2 |

|  |  |
| --- | --- |
| Name |  |
| Actors |  |
| Conditions | Pre:  Post: |
| Scenario |  |
| Extensions |  |

## Schedule

|  |  |
| --- | --- |
| Name | SC-1 Create schedule |
| Actors | Employee |
| Conditions | Pre:  Post: |
| Scenario | 1. System requires data 2. actor gives data 3. System checks data 4. System checks if the schedule can be placed 5. System adds schedule 6. System returns user to last page |
| Extensions | 3.1 Input is incorrect  1. system describes what data parts went wrong  2. system prompts to re-enter valid data  3. The use case goes to step 2  4.1 schedule can’t be placed  1. system describes why this can’t be placed  2. system prompts to enter different data  3. system goes to step 2 |

|  |  |
| --- | --- |
| Name | SC-2 Read schedule |
| Actors | Employee, anonymously, players |
| Conditions | Pre:  Post: |
| Scenario | 1. System requests data 2. Actor gives data 3. System validates data 4. System gets all schedules with data given 5. System determines what needs to be showed 6. System shows the schedule(s) |
| Extensions | 3.1 Input is incorrect  1. system describes what data parts went wrong  2. system prompts to re-enter valid data  3. The use case goes to step 2 |

|  |  |
| --- | --- |
| Name | SC-3 Update schedule |
| Actors | Employee |
| Conditions | Pre:  Post: |
| Scenario | 1. Actor clicks on a schedule that needs to be updated 2. System fills already known data in for the actor 3. System prompts actor to change/add data 4. Actor fills in the needed/changed data 5. System validates input 6. System updates schedule 7. System goes to view schedule 8. System executes SC-2 |
| Extensions | 5.1 Input is incorrect  1. system describes what data parts went wrong  2. system prompts to re-enter valid data  3. The use case goes to step 4 |

|  |  |
| --- | --- |
| Name | SC-4 Delete schedule |
| Actors | Employee |
| Conditions | Pre:  Post: |
| Scenario | 1. Actor determines which schedule to delete 2. System reads the necessary data from the selected schedule 3. System determines if it can be deleted 4. System deletes schedule 5. System executes SC-2 |
| Extensions | 2.1 system can’t read necessary data  1. system gives message with the given error determined by the system  2. system ends case  3.1 system can’t delete it  1. system gives message with the given error determined by the system  2. system ends case |

## Result

|  |  |
| --- | --- |
| Name | RC-1 Create result |
| Actors | Employee |
| Conditions | Pre:  Post: |
| Scenario | 1. System requires data 2. actor gives data 3. System checks data 4. System checks if the result can be placed 5. System adds result 6. System returns user to last page |
| Extensions | 3.1 Input is incorrect  1. system describes what data parts went wrong  2. system prompts to re-enter valid data  3. The use case goes to step 2  4.1 schedule can’t be placed  1. system describes why this can’t be placed  2. system prompts to enter different data  3. system goes to step 2 |

|  |  |
| --- | --- |
| Name | RC-2 Read results |
| Actors | Employee, anonymously, players |
| Conditions | Pre:  Post: |
| Scenario | 1. System requests data 2. Actor gives data 3. System validates data 4. System gets all results with data given 5. System determines what needs to be showed 6. System shows the result(s) |
| Extensions | 3.1 Input is incorrect  1. system describes what data parts went wrong  2. system prompts to re-enter valid data  3. The use case goes to step 2 |

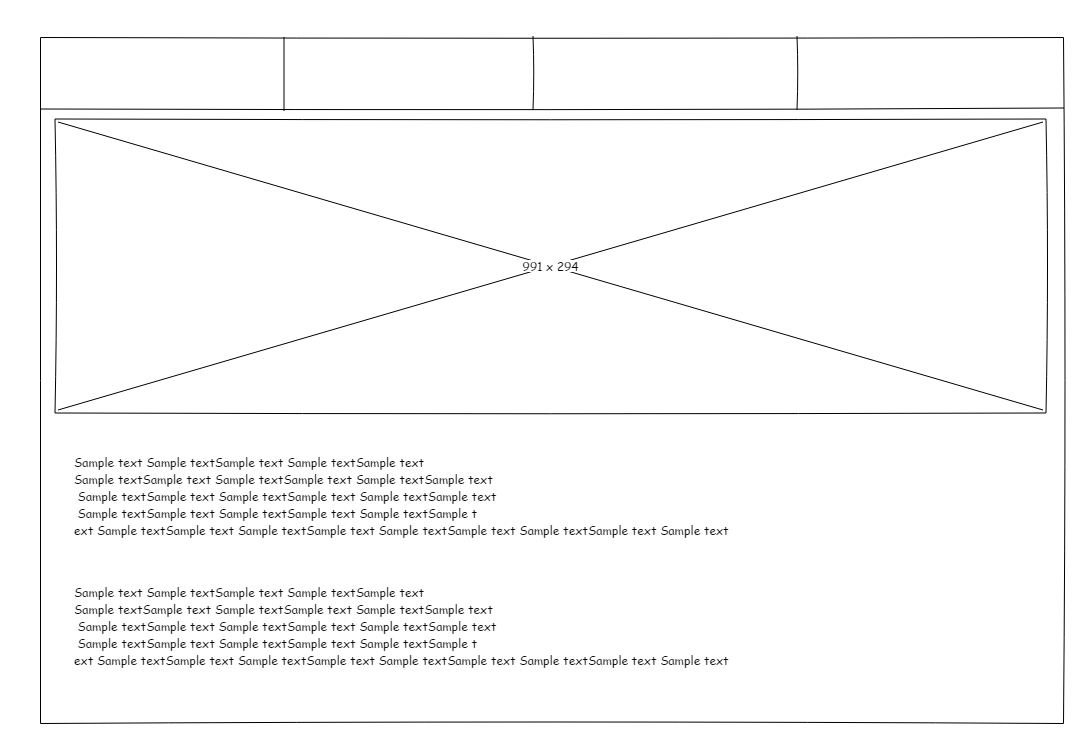
|  |  |
| --- | --- |
| Name | RC-3 Update Results |
| Actors | Employee |
| Conditions | Pre:  Post: |
| Scenario | 1. Actor clicks on a schedule that needs to be updated 2. System fills already known data in for the actor 3. System prompts actor to change/add data 4. Actor fills in the needed/changed data 5. System validates input 6. System updates schedule 7. System goes to view schedule 8. System executes RC-4 |
| Extensions | 5.1 Input is incorrect  1. system describes what data parts went wrong  2. system prompts to re-enter valid data  3. The use case goes to step 4 |

|  |  |
| --- | --- |
| Name | RC-4 Delete Results |
| Actors | Employee |
| Conditions | Pre:  Post: |
| Scenario | 1. Actor determines which schedule to delete 2. System reads the necessary data from the selected schedule 3. System determines if it can be deleted 4. System deletes schedule 5. System executes RC-4 |
| Extensions | 2.1 system can’t read necessary data  1. system gives message with the given error determined by the system  2. system ends case  3.1 system can’t delete it  1. system gives message with the given error determined by the system  2. system ends case |

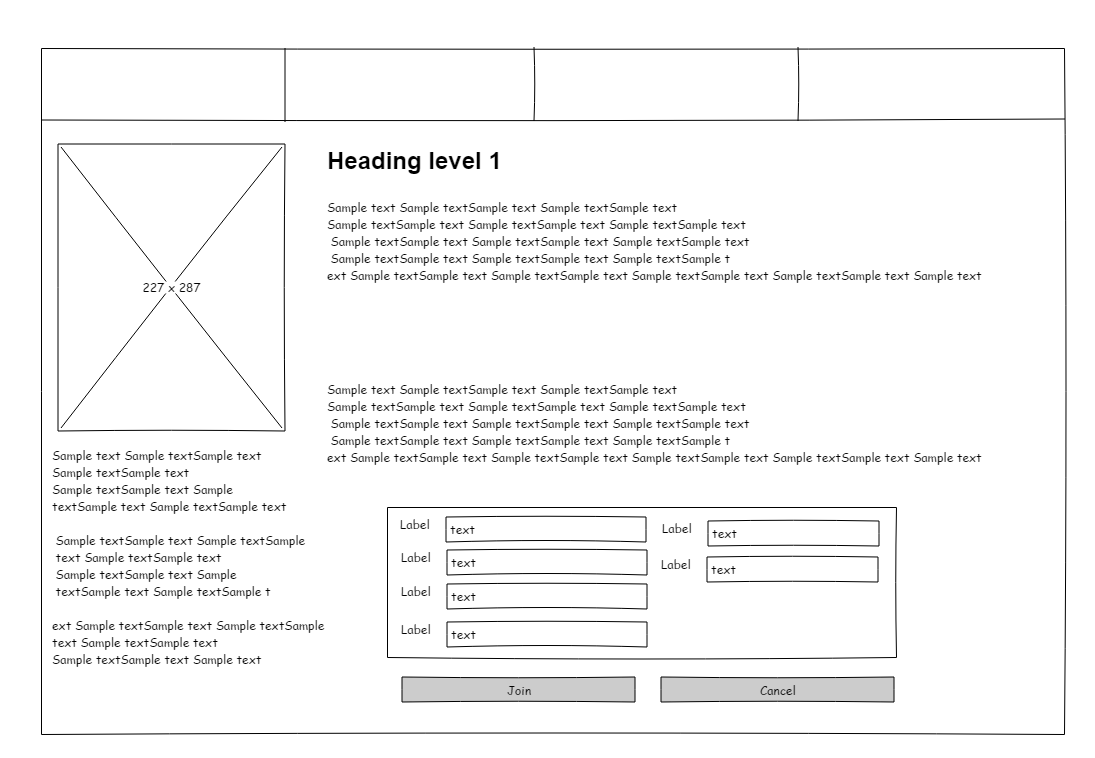
# Wireframes

## Web frames

Home



Register player



Tournament info

Afbeelding met tekst

Automatisch gegenereerde beschrijving

## App frames

Login

Afbeelding met tekst

Automatisch gegenereerde beschrijving

add Tournament

Afbeelding met tekst

Automatisch gegenereerde beschrijving

Register results

