

URS DUELSYS

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Table of contents

Client	2
Functional requirements	3
Use cases	
Tournaments	4
Players	6
Schedule	10
Result	11
Leader board	13
Wireframes	14
Web frames	14
App frames	

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-	Manage Tournaments.	This requirement must be
01	Staff must be able to manage (CRUD operations) the	implemented in a desktop
	tournaments. Make sure to include the information given	application.
	in Process of running a tournament Phase 1.	
FR-	Support registering players.	This requirement must be
02	When a player is interested in participating in a	implemented in a web
	tournament, they can visit the sport association website,	application.
	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.	
FR-	Support generating tournament schedule.	This requirement must be
03	Staff must be able to generate the tournament's schedule.	implemented in a desktop
	Make sure to at least follow the information given in	application
	Process of running a tournament Phase 3.	
FR-	Support registering the results of the games.	You can decide whether this
04	When a game between two players is finished, the results	should be done in a web or
	must be registered in the system by staff. Make sure to at	desktop application.
	least follow the information given in Process of running a	The chosen method is for the
	tournament Phase 3.	desktop to handle this
FR-	Support showing tournament information and results.	This requirement must be
05	Any interested party (e.g. a sport enthusiast, a player)	implemented in a web
	must be able to retrieve information about any given	application
	tournament. Make sure to at least follow the information	
	given in Process of running a tournament Phase 4.	
FR-	Support multiple sport types.	
07:	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-	Support leader board.	
09	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	 System requires data
	actor gives data
	3. System checks data
	4. System checks if the tournament can be
	placed
	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 tournament
Actors	Employee, Player, Anonymous
Conditions	Pre: -
	Post: -
Scenario	Actor determines which tournament to
	view
	2. System checks on valid input and
	retrieves the info
	3. System shows relevant info
Extensions	2.1 invalid input
	1. system describes the problem and prompts
	actor to choose again or a different one
	2. case goes to step 1
	2.2 There is no tournament with the given input
	1. system describes the problem and prompts
	actor to choose a different tournament
	2. case goes to step 1
	3.1 There is no/not enough info
	1. System determines the problem and
	describes it to the actor
	2. case ends

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
	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	 Actor determines which tournament to delete System reads the necessary data from the selected tournament System determines if it can be deleted System deletes tournament
Extensions	5. System executes TC-2 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	 System gets all finished tournaments
	2. System determines what needs to be
	showed
	3. System shows the tournaments
Extensions	

Name	TC-6 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	1.1 there are no in progress tournaments
	1. system shows message that there are none
	2. ends case

Name	TC-7 Show available tournaments
Actors	Employee, anonymously, players
Conditions	Pre:
	Post:
Scenario	System gets all available tournaments
	2. System determines what needs to be
	showed
	3. System shows the tournaments
	111
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	 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

3.2 actor gives already known email1. system gives actor a message that email is already taken2. case goes to step 2
4.1 player already exists1. system gives actor a message with that the player already exists2. 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:
Scenario	 Actor determines which tournament to sign up for System reads the necessary info and checks if player can still sign-up System request actor if it is sure to be signed up for this tournament Actor determines if they want to sign up for this System reads input from actor and adds player to the tournament System redirects actor to last visited 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 2.2 actor can't sign up 1. system gives message with an error with the given error determined by the system 2.case ends 2.3 actor is already signed up for this tournament 1. system gives message that the actor is already signed up for this tournament 2. case ends 4.1 actor doesn't want to sign up 1. system goes to last page

Name	PC-3 Login
Actors	anonymously, players
Conditions	Pre: needs to be logged out

	Post:
Scenario	System requests data
	2. Actor gives data
	System validates data
	4. System checks given data with the
	data in the database
	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	PC-4 Login Employee
Actors	employee
Conditions	Pre: needs to be logged out
	Post:
Scenario	System requests data
	2. Actor gives data
	3. System validates data
	4. System checks given 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
	4.2 account isn't an employee account
	1. system messages actor on invalid account
	2. case goes to step 1.

Name	PC-5 Registering an employee
Actors	employee
Conditions	Pre: needs to be logged in as employee
	Post: returns to last visited page
Scenario	Actor determines which account to
	"promote" to an employee account
	System requests data
	Actor gives data
	4. System determines if data is valid
	and if the account is already an
	employee

	5. System promotes account to employee
Extensions	1.1 there are no accounts1. system describes what is wrong2. case ends
	4.1 actor gives invalid data1. system gives message on what part of the data is wrong2. case goes to step 2
	4.2 account is employee1. system describes that account is already an employee2. case stops

Name	PC-6 show account
Actors	employee
Conditions	Pre: needs to be logged in as employee Post:
Scenario	 Actor determines which accounts to view System checks on valid input and System checks for accounts with given input System determines what to show and shows the tournament
Extensions	 2.1 actor gives invalid data 1. system describes what went wrong 2. case goes to step 1 2.2 there are no accounts with the given data 1. system describes that there are no accounts 2. case goes to step 1.

Name	PC-7 updating an account
Actors	employee
Conditions	Pre: needs to be logged in as employee
	Post:
Scenario	Actor determines which account to update
	System checks on valid input and requests to enter data
	3. Actor gives changed data
	4. System checks on valid input and
	updates account
Extensions	2.1 actor gives invalid data

 system gives message on what part of the data is wrong case goes to step 1
4.1 actor gives invalid data1. system gives message on what part of the data is wrong2. case goes to step 3
4.2 actor gives already known email1. system describes that email is already taken2. case goes to step 3

Name	PC-8 deleting an account
Actors	Employee
Conditions	Pre: needs to be logged in as employee
	Post:
Scenario	Actor determines which account to delete
	System checks on valid input
	System request conformation from actor
	4. Actor gives conformation
	5. System deletes account
Extensions	2.1 actor gives invalid data
	1. system gives message on what part of the
	data is wrong
	2. case goes to step 1
	4.1 actor doesn't want to delete account
	1. system messages that account won't be
	deleted
	2. case ends

Schedule

Name	SC-1 Create schedule
Actors	Employee
Conditions	Pre: needs to be logged in as employee
	Post:
Scenario	 Actor determines which tournament to make a schedule for System checks if the given tournament can make a schedule for system makes fake schedule actor checks schedule and checks if the schedule is correct

	5. system makes schedule
Extensions	 1.1 There are no tournaments available 1. System messages actor that there no available tournaments. 2. Case ends
	2.1 The system can't make a schedule because of not enough players1. system describes that there are not enough players2. case goes to step 1
	 2.2 The system can't make a schedule because of not reached max players and more then a week away from the tournament start date 1. system describes that the maximum hasn't been reached yet and that it's still possible that players can sign up for this tournament. 2. case goes to step 1
	4.1 actor does not agree with the schedule1. system messages actor that it will retry2. case goes to step 2
	4.2 actor doesn't want to make a schedule anymore1. system messages actor of discontinued process2. case ends

Result

Name	RC-1 Create result
Actors	Employee
Conditions	Pre:
	Post:
Scenario	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	 Actor determines which tournament to view System validates data System gets all results with data given System determines what needs to be showed System shows the result(s)
Extensions	2.1 Input is incorrect 1. system describes what data parts went wrong 2. system prompts to re-enter/enter different valid data 3. The use case goes to step 1

Name	RC-3 Update Results
Actors	Employee
Conditions	Pre:
	Post:
Scenario	Actor clicks on a match 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 match
	7. System goes to view matches
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
	5.2 Input is a tie
	1. System prompts Actor to re-enter valid data
	2. The case goes to step 4

Leader board

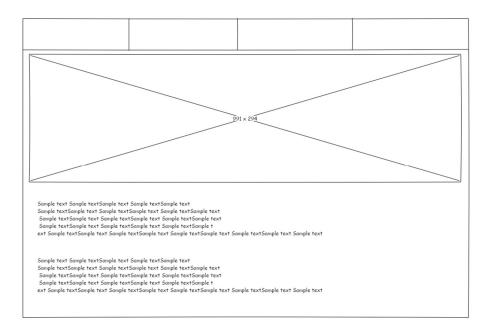
-

Name	LBC-1 Get leader board
Actors	Employee, anonymously, players
Conditions	Pre:
	Post:
Scenario	 Actor clicks on an ongoing/finished tournament and goes to matches System checks if tournament is ongoing or finished. Also, System validates data System gets all results with data given System determines what needs to be showed
	5. System shows the result(s)
Extensions	2.1 Input is incorrect
	1. system describes what data parts went
	wrong
	2. system prompts to re-enter/enter different
	valid data
	3. The use case goes to step 1

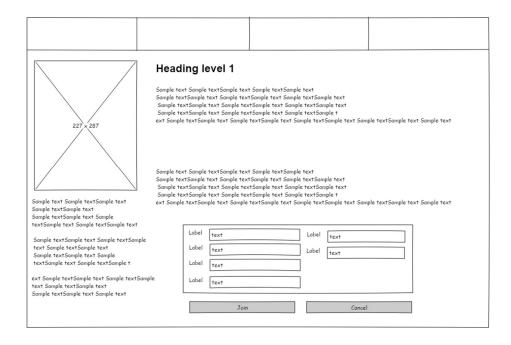
Wireframes

Web frames

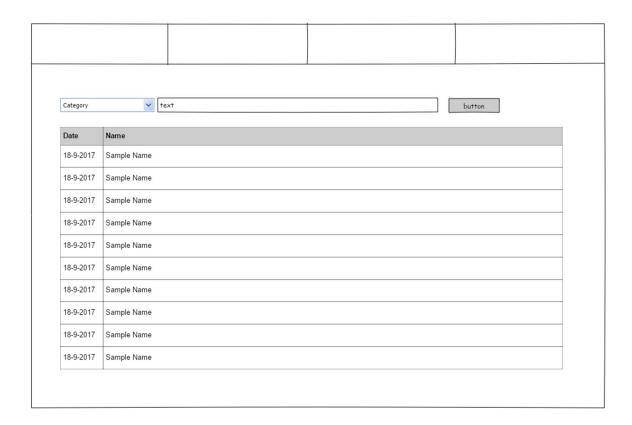
Home



Register player

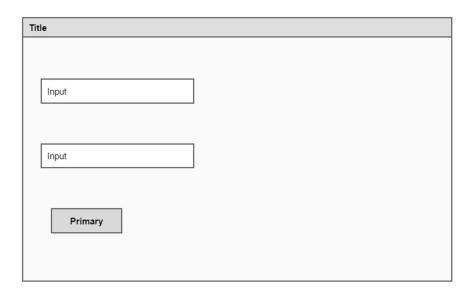


Tournament info

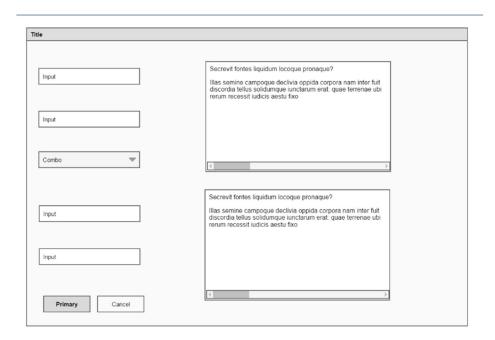


App frames

Login



add Tournament



Register results

