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| **DuelSys inc. Software Solution** |
| Project Plan Document |
| The company DuelSys inc. wants a software solution to allow their customers (sport associations) to  manage their sport tournaments. This solution handle with multiple sport types and can be reach via different platforms(Web or desktop apps) |
| * Çelik, Servet can S.C. |

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# Client and situation description

DuelSys inc. is setting up a tournament and they need a software solution for this organization. The software must support a round-robin tournament system for multiple sport types. They also ask a leader board. Another thing they need is a leaderboard where everyone can see the current rankings of the players.

Below are the current needs for the client, that they expect to tackle with the new solution:

## Technical requirements

* **Secure software**

Only authorized people may make use of the system and can only access data they are

authorized for. Passwords and user input must also be handled appropriately.

* **Bug free system**
* **Maintainable and extendable**

## Functional requirements

* **Manage Tournament**

Staff must be able to manage the tournaments

* **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.

* **Support generating tournament schedule**

Staff must be able to generate the tournament’s schedule.

* **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.

* **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.

## Other Requirements

* **Support multiple sport types**

It should be possible, for a staff member, to specify which sport type when creating new tournament.

* **Support 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.

* **Support multiple tournament systems**

A staff member should be able to specify which type of tournament system to choose when creating a new tournament.

# Project stakeholders’ analysis

**DuelSys inc. Staff**

* End users
* They have access to manipulate data.

**Players**

* End users
* not too technical people.

**Developer**

* In charge of the design, development and launch of app.
* In charge of presenting final solution to client.

# App features/Deliverables

* Create account and Login function as Staff and Player
* This software solution will be used by sport association staff to creates a tournament by specifying the following information;
  + Sport type
  + Description information
  + Duration information
  + The minimum and maximum number of players
  + Location information
  + Tournament system information
    - Round robin
    - Double round robin
* Players should access the tournaments via the website and following functions must be fulfilled by them;
  + Participate in a tournament if it is still applicable
  + Check all applicable, canceled, started, and finished tournament and see the details.
  + See all the result of matches and position of players in a tournament
* Staff must be able to generate the tournament’s schedule
* Staff must be able to register the result of the matches
* Any interested part can retrieve the list of players, ordered based in their current rank

## Deliverables

* Project plan
* URS
* Test plan and test report
* UML Class diagram
* Software solution
  + Source code
  + Unit Test
  + Database

# Phasing

## Week 11

Activities:

* Kick off meeting with WKS teacher
* Start working on Project Plan, URS, Test Plan

Deliverables:

* None

## Week 12

Activities:

* Q&A/Feedback with WKS teacher
* Working on Project Plan, URS, Test Plan

Deliverables:

* None

## Week 13

Activities:

* Get feedback on PP, URS & Test plan
* Start designing the UML Class Diagram

Deliverables:

* None

## Week 14

Activities:

* Get feedback on your design
* Start implementation of system

Deliverables:

* None

## Week 15

Activities:

* Continue implementation of system
* Start implementation of Unit Test

Deliverables:

* None

## Week 16

Activities:

* Finish implementation & unit tests
* create test report
* Polish all deliverables

Deliverables:

* Submission all the documentation and Software solution before 10th of June, Friday 16.00