

PROJECT PLAN

Project: DuelSys Tournament Management System



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Introduction

This document is the project plan for the Synthesis assignment of Semester 2, Fontys university of applied sciences. My name is Mertan Rasim, and I will carry out the plan in question.

Objective & motivation

According to the [reader](#), the assignment's objective is to create a software solution for DuelSys inc. to allow their customers (sport associations) to manage their sport tournaments.

The primary objective is to create such system for Badminton with a Round-Robin tournament system. Furthermore, the company also wants the solution to support different types of sport games and tournament systems.

For the scope of the assignment, I have chosen to extend the solution to support different tournament system types and to handle ties. Further information can be found in the reader.

Deliverables

The deadline for the delivery of the project is 10th of June 2022. By the end, the following items will be delivered:

- Web application for tournament registration and viewing
- Desktop application for tournament management
- Database
- Unit tests
- Project plan
- Test plan
- Test report
- [UML Class diagram](#)
- [URS](#)

Scope

The technology that is going to be used to develop the desktop application is Microsoft's .NET 6 Framework, specifically Windows Forms.

For the web application, ASP.NET Razor pages will be utilized to create the interface. Both the desktop and web application will use the same logic and data storing services.

Lastly, the MySQL database will be used to store the data, which will be shared between the two applications.

Tasks & responsibilities

Generic

G1: Implement an algorithm to generate a Round-Robin schedule

G2: Implement an algorithm to generate a Double Round-Robin schedule

G3: Integrate tournament data to the database

G4: Integrate user data to the database

G5: Add extensibility for different tournament system types

G6: Create unit tests

G7: Implement a solution to solve ties after a tournament has been concluded

Desktop application

D1: Create a generic interface in the desktop application to view tournaments

D2: Implement a solution to view:

D2.1: Schedule

D2.2: Results

D2.3: Scoreboard

D3: Create an interface to manage registered users

Web application

W1: Create an interface for user registration and authentication

W2: Create an interface for viewing generic information about tournaments

W3: Create an interface in the web application for viewing tournament results and scoreboard

Timeline

Tasks done before project plan (Week 11,12,13): G1, G4, D1, D2, D3, W1, W2

Delivery Week #	Task ID
Week 14	G5, W3
Week 15	G3, G2
Week 16	G6, G7