

Project Plan

Synthesis Assignment

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## Client

The company *DuelSys inc.* wants a software solution to allow their customers (sport associations) to manage their sport tournaments.

## Team

We are N.E.R.T.Z software solutions, a group of 12 software engineers. We consider ourselves a modern small business, so we are all equal representatives of the company. Our clients are free to contact us using email or MS Teams on the designated group chat.

* Contact info: [contact@NERTZ.com](mailto:contact@NERTZ.com)
* Mon – Fri: 09:00 – 17:00

## Current situation

As of now DuelSys Inc does not have a software system to manage their tournaments. N.E.R.T.Z software solutions agreed to work with DuelSys in order to build a system that will be able to manage tournaments, register users to compete in tournaments and show the leaderboards with all players results.

## Problem description

DuelSys Inc. requires a desktop and website application to manage sport tournaments. Initially the software should support round-robin badminton tournaments but should be extendable to other sports and systems. The desktop solution will take the form of a C# Windows Forms application, while the website will be an ASP.NET Razor Pages application. These are the key components of the project.

The applications will be tackled iteratively as outlined in the Milestones chapter of this document. Each week the aim is to deliver a new component, including documentation. Week 16 will be the end of the project timeline, at which time a well-documented and tested application should be ready.

## Project goal

The chief goal of the project is to handle the creation (and control) of tournaments in the desktop application, while the website will handle interactions with players and other interested parties for Duelsys Inc.

## Project Components

### Deliverables

1. User requirements document.
2. Project plan document.
3. Database design diagram.
4. Application UML diagram.
5. Test plan document.
6. Test results document.
7. Desktop application.
8. Website application.
9. Database.

### Non-Deliverables

1. No hardware components will be provided.

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### Constraints

1. No real test data is available beyond the assignment document. Test data will be generated for the project.
2. User experience is to function as expected from modern applications.
3. The desktop application must be written in C# and use Windows Forms as its UI component.
4. The website must be ASP.NET Core Razor Pages and may not use an ORM.
5. The database must be MySQL.
6. Source code will be on the Fontys GitLab.

## Phasing

|  |  |  |
| --- | --- | --- |
| **Week** | **Dates** | **Components to be completed** |
| 12 | May 9 – May 15 | * User requirements document. * Project plan document. * Database diagram. * UML class diagram. |
| 13 | May 16 – May 22 | * Implement core requirements * Website login. * Website registration. * Website shared HTML. * Receive feedback. |
| 14 | May 23 – May 29 | * Process feedback. * Website CSS. * Implement major requirement - multiple sport types * Implement minor requirement - leader board * Unit tests for logic and models. * Receive feedback. |
| 15 | May 30 – June 6 | * Finish Unit tests * Implement second major/minor requirement * Process feedback. |
| 16 | June 6 – June 10 | * Overflow from previous weeks. * Deployment. * Test plan. * Test results. |