Project plan

Synthesis Assignment

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# **Introduction**

This is the Project Management Plan for the Synthesis Assignment. The final product will be a web application paired with a desktop application, which will communicate through a database.

The client is the sports company DuelSys Inc. They want a software solution to allow their customers to manage their sports tournaments. The software is expected to support a special type of a tournament system for badminton. Moreover, the company expects the software to have the potential to support other types of tournaments as well as other sports.

Finally, this document will present the way of approaching the problem, the delivery estimates and the external dependencies.

# **Problem Description**

DuelSys Inc. wants software to automate their work, which in return will bring the company more clientele and thus improving the company’s reputation and earnings.

For the staff of the company the software should be able to manage ‘’round-robin’’ badminton tournaments for now with the potential for expansion in the future. It is expected that the employees should be able to perform CRUD operations (Create, Add, Update and Delete) on tournaments.

Moreover, information about the tournaments like participants, schedule, match and player statistics and final classification be able to be added to the software and kept in a database.

Users of the web application are expected to see information about tournaments and enroll in one if they want.

# **Deliverables**

Listed below are the deliverables expected at the end of Week 16:

* Database to store all information about tournaments (start/end date, schedule, participants, match and player results, final classification)
* Desktop application for the employees to perform CRUD operations to tournaments
* Website application for the users to see available tournaments and the possibility to choose to participate in them if they want
* Documentation:
  + URS Document
  + Test plan
  + Test report
  + UML Class Diagram
  + Database Design

# **Website Address**

[https://i477927.luna.fhict.nl](https://i477927.luna.fhict.nl/)

# **GitLab repository link**

<https://git.fhict.nl/I477927/lachezar-mitov-synthesis-assignment>

# **Constrains**

## UX

The design should follow the rules of the modern application. The look of the applications should be friendly to the user and have consistency. Moreover, the design should be easy to use and very accessible. Sensitive data should be hidden for the benefit of the user.

## Technologies

The programming language will be C#. The application will be developed in a Visual Studio environment. Desktop application will be created using the WinForms architecture. On the other hand, the web application will be developed using the ASP.NET Core with the help of Razor Pages. A layout framework, such as Bootstrap, can be used in the website.

## Website

The website should run on the Luna Server.

## Database

The Database should be a MYSQL database. Moreover, it should run on the Hera Server.

# **Delivery estimates**

## Week 11 (25th April – 29th April)

* Start working on Project plan
* Completed version of Project plan
* Start working on URS Document

## Week 12 (9th May – 13th May)

* Start working on Test Plan
* Completed version of URS Document
* Completed version of Test Plan

## Week 13 (16th May – 20th May)

* Start working on UML Diagram
* Conversation with the tutor about the implementation of the application

## Week 14 (23rd May – 27th May)

* Completed version of UML Diagram
* Start implementation of the features

## Week 15 (30th May – 3rd June)

* Further implementation of the required features

## Week 16 (6th June – 10th June)

* Deliver final version of the Project