

Project plan

Synthesis Assignment



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# 1. Case description

The company DuelSys Inc. wants a software solution to allow their customers (sport associations) to manage their sport tournaments. For now, the software must support a round-robin[[1]](#footnote-1) tournament system for badminton[[2]](#footnote-2), but DuelSys Inc. also wants the software to have the potential to support other types of tournament systems and sports.

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.

# 2. Project Overview

## 2.1 Project goal

This project will have to start from scratch and be built upon from there to achieve our goal:  
To present an administrative software system which can add, remove or change data related to the tournaments and a web application that will allow users to register and take parts in tournaments in a user-friendly manner.

## 2.2 Deliverables

The client wants the following deliverables:

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

## 2.3 Limitations

### 2.3.1 Constraints

|  |  |
| --- | --- |
|  | *Description* |
| *Mocking Data* | The case is simulated and there is no real data. |
| *UX* | The software solution is as expected for modern application, e.g. proper UX, user feedback, common practices (for example, hide sensitive data such as password), etc. |
| *Technologies* | C# with Windows Forms and ASP.Net Core Razor Pages; for a web application you may use a layout framework, such as Bootstrap, but not an ORM. The database must be a MySQL database. |
| *Meetings* | Weekly meetings with tutor are mandatory. |
| *Deadline* | Friday 10th of June 2022 before 16.00. |
| *Source control* | FHICT GitLab (https://git.fhict.nl). Make sure you invite your OOD, WAD & WKS teachers with the appropriate access (i.e. at least Reporter access). |
| *Website* | The website should run on Luna server. |
| *Database* | The database should run on Hera server. |
| *Submission* | Final submission with all deliverables must be submitted on Canvas before deadline |

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# 3. Phasing

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| **Week** | **Activities** | **Deliverables** |
| **Week 12:**  Project Plan  URS | In the first week the focus will be on starting the documentation:   * Creating Project plan * Creating URS * Creating UML | Deadline:  15.05.2022, 19:00   * First drafts of Project plan, URS, UML |
| **Week 13:**  Updating documentation and start of Implementation | This week the documentation will be updated based on feedback and implementation of the software application will be started.   * Updating URS * Updating Project plan * Updating UML * Creating Database * Starting the implementation of the Desktop application * Starting the implementation of the web application | Deadline:  22.05.2022, 19:00   * Updated URS, project plan, UML * Created Database |
| **Week 14:**  Updating documentation and continuing of Implementation | Updating documentation based on feedback and continuing of the implementation of the software application.   * Updating URS * Updating Project plan * Updating UML * Continuing the implementation of the Desktop application * Continuing the implementation of the web application | Deadline:  29.05.2022, 19:00   * Updated URS, project plan, UML |
| **Week 15:**  Finishing documentation and Implementation.  Creating Test plan. | Finishing touches to the documentation and finalizing software application. Creating test report.   * Finishing URS * Finishing Project plan * Finishing UML diagram * Finalizing desktop application * Finalizing web application * Creating Test plan | Deadline:  05.06.2022, 19:00   * Final version of URS, project plan, UML * Finalized desktop and web application * Created Test plan |
| **Week 16:**  Software presentation | In the final week everything will be submitted and ready for presentation.   * Presenting the project | Deadline:  10.06.2022, 16:00   * Final version of the applications |

1. Round-robin is an all-play-all type of tournament system; see https://en.wikipedia.org/wiki/Roundrobin\_tournament [↑](#footnote-ref-1)
2. Badminton is a racquet sport played using racquets to hit a shuttlecock across a net; see https://en.wikipedia.org/wiki/Badminton [↑](#footnote-ref-2)