Dublin City University - School of Computing

BSc in Enterprise Computing

4th year project proposal (CA472)

Idea Proposal

2018/2019

*Updated October 2018*

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| **Student name** | Student Number |
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**Project Title:**

**Date:**

**Project Summary (1 page):**

Include a brief summary of the overall idea and describe why you chose this project? Plesae provide enough detail so that a reader can understand your concept without needing additional explanation.

**Expected Technical Delivery (1 page):**

**Application Platform:** Our application will be built as a web-app but we will modify the front-end to be mobile friendly. We believe there is no need to develop a mobile application for our software as the main functionality is for admin work which is not suitable to be carried out on a smart phone but we believe it is nesscessary for it to be compatible on smart phones for our features such as pitch rental and club shops.

**Project Management Application:** In order to manage our project we decided to use Trello a web-based project management application. It is a collaboration tool which incorporates a scrum framework which will inturn help our project move along as productively as possible. We will use the dashboard to plan our iterations and tasks.

**Database:** MySQL is the database of our choice as it is faster, more reliable and cheaper than other database options out there. There is also a lot of documentation online to support our database needs. MySQL works well with many programming languages which is important and includes all the necessary features we need to develop our application system.

**Git Respository:** GitLab is our web-based git-repostitory of choice. GitLab allows us to collaborate on code, to help safely create and edit code on our project. It is free and open-source.

**Back-End:** Python is our preferred object orientated programming language which we have experiencing using. Using python we will build our back-end functionality and API’s. Using Django Rest as our framework of choice.

**Front-End:** To develop the front-end of our applcaition we’ve decided to use Angular 6 as our framework over reactjs due to it’s faster compliation, detailed documentation, two-way data binding that enables singular behaviour for apps and the MVVM (Model-View-View-Model) architecture that allows for separate work to be carried out by both of us on the same app section using the same set of data.

**Testing Tools:** Using Postman to test our API’s and JUnit to test our python code functionality.

**Logging:** Depending on time we will hope to incorporate ELK(Elasticsearch, Logstash, Kibana) stack to handle our logging. With the help of Kibana dashboard we can visualise our log data clearly and identify errors.

**Market Rationale (1 page):**

Include a brief summary of the market for the idea. Who are the potential users? Suggest how you intend to validate this market by your primary and secondary research.

**Proposed Timeline (1 page max):**

Please provide a basic timeline plan for the project from now, until the end of semester 2. What are the tasks that need to be addressed and who will take responsibility for them?

**Workload Distribution (for teams with 2 or more members):**

How will the workload be distributed? Technical and Commercial components? Bullet point listing is adequate.

**Staff Consulted:**

Who did you consult in the preparation of this document? If any staff member agreed to act as the project advisor, please add their name here.