School of Computing  
CA326 Year 3 Project Proposal Form

**SECTION A**

Project Title: **MMA Fantasy League**

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Student 2 Name: **James Reilly**

ID Number: **19464192**

Staff Member Consulted: **Mark Roantree**

Project Description (2 pages max)

**Introduction**

*Describe the general area / problem covered by the project.*

Our proposed project is to develop a web-app that allows users to interact with each other and make selections based on their predictions of upcoming MMA events. The application will be based solely around the “UFC” as it is the most popular promotion, but could be expanded to any MMA promotion in the future. The application allows users to create private or join public “fantasy leagues” in which they will compete.

**Outline**

*Outline the proposed project*

Develop a web-app for MMA(mixed martial arts) enthusiasts to compete in a fantasy league against other users. The app will allow users to join multiple public or private “leagues”. The app will update before each sporting event of a particular MMA promotion. Users will be allowed to choose five total fighters before each event to add to their “fantasy team”, but users must adhere to certain criteria when selecting their team to prevent them from just picking all of the best fighters. The league will only allow the users to have two fighters that are ranked 1-5, two fighters ranked 6-15 and as many unranked fighters as they wish in their team. After each MMA event the app will apply/deduct certain points for the outcome of each fight based on the fighter’s performance during the fight, the result, any point deductions that occur during the fight (Illegal techniques or rule breaking declared by the fight’s referee) and the method of victory. After the event the points for each user’s team will be added up and they will be placed in a leader-board for easy comparison. User’s will then be able to track their performance and compare against other members based on their monthly/quarterly/annual performance.

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**Background**

*Where did the ideas come from?*

The idea came from our love of Mixed Martial Arts and sport in general. We both partake in fantasy leagues for other sports such as Football and Basketball for which there are multiple applications available but we realized that there is no such option on the market for the sport of Mixed Martial Arts, so we concluded that developing an application for it would be perfect for our project as we are both massively interested in it.

**Goals**

*What will the project aim to achieve?*

We aim to provide an interactive application where users can compete against each other and test their knowledge of MMA by choosing fighters who will win them the most points. Due to the nature of the sport and the unpredictability of each fight we think it will provide an exciting platform for an extra level of engagement with the sport which will never get stale.

*Why/when/where/how will it be useful?*

It will hopefully add to the enjoyment of UFC events for sporting enthusiasts as the users are no longer just watching the fights happen but  are now competing against other users for bragging rights.

**Programming language(s) and tools**

*List the proposed language(s) you plan to use and any other software tools you might use.*

* Python django
* Html, CSS, JS
* Sql
* Firebase hosting for cloud storage and data

**Breakdown of work**

*Clearly identify who will undertake which parts of the project.*

*It must be clear from the explanation of this breakdown of work both that each student is responsible for separate, clearly-defined tasks, and that those responsibilities substantially cover all of the work required for the project.*

**Student 1**

*Student 1 should complete this section.*

Paul will complete front end-tasks. The implementation of cloud services will be shared.

**Student 2**

*Student 2 should complete this section.*

James will complete backend-tasks and the databases. The implementation of cloud services will be shared.