**Team 25**

**Client: NTT Data**

**Project Abstract: A Virtual Reality Simulation of riding in a Self-Driving Car**

**Bi-weekly report Dated: 06/12/2019**

1. **Overview of the last two weeks:**

Over the last two weeks, our team made significant progress on the project. On the first week, we further modified the MosCow list to make it more specific. Simultaneously, we have completed user persona which helps us better understand the users and also drew up part of the sketches to explore ideas on how our VR environment looks like.For the assets, we manage to borrow an oculus quest headset from UCL for the testing of our prototype before getting the gloves.

1. **Completed tasks:**
   1. User case diagram
   2. Sketches of car selection and homepage
   3. Personas
   4. An embryonic form of 3D prototype within all fundamental functions except self-driving
2. **Project Status**:

We made huge progress on this project over the last two weeks and we will try to connect the Oculus with prototype and in the next two weeks.

1. **By the end of the next two weeks, we should have completed:**
2. For the project itself:

* Achieve the connection between the VR headset and camera in the VR environment.
* Able track the hand motions of users using Leap motion
* Create 2d UI in 3d VR environment where user can interact with.
* Create a very basic environment for the driving simulation part(i.e. a straight road with no turning)

1. Draw system architecture diagram
2. Draw sketches on the Car simulation part
3. **Plan for the next two weeks:**
4. During the lab session next Tuesday, our team will:
5. Discuss about the components that the 2d UI inside car simulation part need to have (i.e. what buttons can be included for the users to interact with)
6. Distributing the coding work for the first prototype.
7. Sharing some ideas of how to implement different aspects of the project, compare them with other similar projects.
8. Distributing the assets for each team member to take home during Christmas holiday.

* During the second week:

1. Keep contact with team through Skype meeting
2. Evaluate the work each team member has done
3. Discuss about encountered problems

* Meanwhile every team member should do the following things on their own:

1. Investigate the api provided by both Oculus quest and Leap motion
2. Continue learning Unity and C#