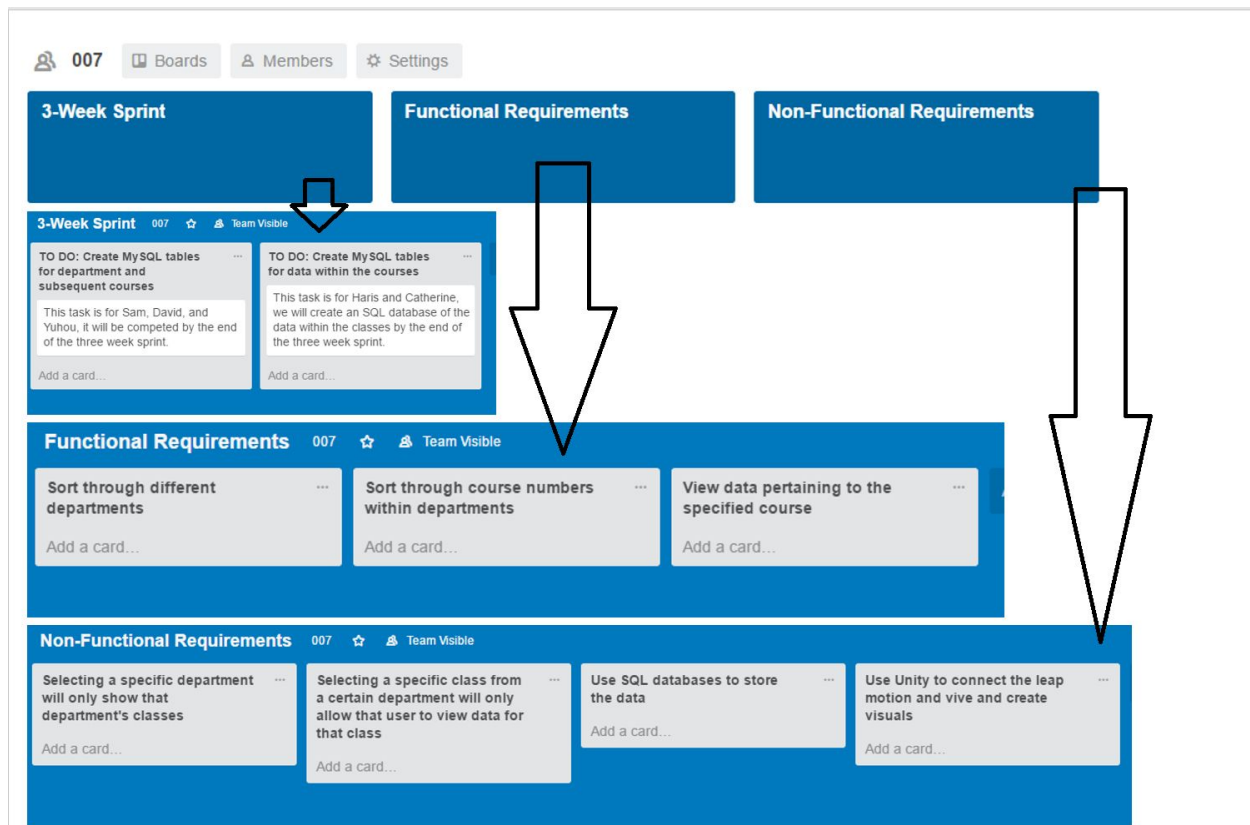# Milestone #7

Project Name: VR Data Visualization
Team Members: Haris Khan, Catherine Diaz, Samuel Reed, Menglong Dai, Yuhou Wang
Project Tracker: Trello (https://trello.com/b/NFNruEVA)

Project Demonstration(Videos): See attached videos on milestone #6 power point located in the google drive that is shared on github. The videos can also be viewed in the Videos->Final Videos folder on the google drive. These videos demonstrate the functionality of our project.

Version Control System(VCS): https://github.com/samdreed21/CSCI3308Group6
- The source code for our project is not stored in github. Unity packages are too big to store in github so it is stored in our google drive. The link to google drive is on the github in the README.
- Because our test cases were done with leap motion, our videos represent our test cases. We checked in with Alan and he said this was okay in the following email:

Unit Testing Milestone 5   📁   Inbox x

Catherine E Diaz <Catherine.Diaz@colorado.edu>   Apr 17 (1 day ago)
to alan.paradise

Hi Alan,

Our group is having trouble thinking of how to do test cases. Our project is an interactive data visualization using the HTC Vive (Virtual Reality Headset) and Leap Motion (Controller that senses your hands). In order to perform tests we need our hands, so that the leap motion can sense them, there is a video attached of what I mean. What we could do is give you the script of all the cases for the UI, and attach of video of us doing those test cases to confirm that everything is working. Let me know if this works for Milestone 5.

Thank you,
Catherine Diaz

Alan Paradise   8:17 PM (19 hours ago)
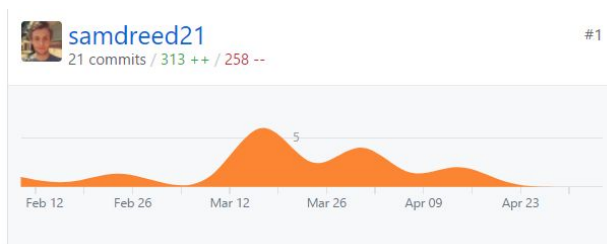to Catherine

Yes, this approach sounds good to me. The scripts plus the video provide good evidence that you have conducted the tests.

From: Catherine E Diaz <Catherine.Diaz@colorado.edu>
Sent: Monday, April 17, 2017 12:28:44 PM
To: Alan Paradise
Subject: Unit Testing Milestone 5

- To view our test cases watch the videos on our project 5 milestone
- Commit History: While the following images represent some of the work done, we often worked in groups or with google docs as our repository so not everyone's work is properly displayed by just the number of github commits.
- Also because we used Google Drive as our primary storage, there is activity in the Project Versions folder that can be viewed which also shows contributions.

Setting up the mySQL server:

- Our project GitHub contains all the necessary files to set up the server. Save the ExcelFormat.csv and Excel_Integration.sql files in the same folder (this is necessary)
- Create a mySQL Database for this specific server then use the command "source Excel_Integration.csv;"

How to run the project:

- In order to run this project you would need a HTC Vive and a Leap Motion. The HTC Vive enables you to look around and the Leap Motion enables you to select buttons from the UI.
- If you are unable to run this project, we have pushed a folder titled "Scripts" on github. This folder contains all of the code that was written to run this project. It controls the UI and all of its buttons along with all of the objects and events that go along with pressing a button. It also contains the code that connects the database to unity.
- Download the latest version of Unity
- Download the Unity package in the latest version in the Version 11 folder in Project Versions. This is a very big project because it is VR and the environment was made from scratch so every element in the forest is its own separate object.
- Once the Unity package is downloaded, double click on it to import all of the objects within the package into Unity, again this may take a bit of time.
- Once all the objects are imported double click on the scene titled DataVisual, this will open the scene and all of contents.
- Press the play button at the top of the screen to run it