**Project Log**

We have currently completed about 80% of the minimum requirement for Orbital. We will be focusing on completing the application in the month of July and we are planning to invest time on the project each week. We will consistently motivate each other so that we will be able to satisfy Orbital’s minimum requirement of 130 hours.

**Spreadsheet:**

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| **S/N** | **Activity** | **Date** | **Wei Han** | **Yoga** | **Remarks** |
| 1 | Liftoff Day 1 | 9th May 2016 | 10 | 10 | Both of us attended Liftoff Day 1 for the full duration. |
| 2 | Install Git, Python, Ruby on Rails, XAMPP | 9th May 2016 | 3 | 3 | Done on the same day as Liftoff Day 1, back at home. |
| 3 | Liftoff Day 2 | 10th May 2016 | 10 | 10 | Both of us attended Liftoff Day 2 for the full duration. |
| 4 | Learn HTML | 11th May 2016 | 2 | 2 | Practised HTML exercises on Codecademy and explored more on w3schools. |
| 5 | Learn CSS | 11th May 2016 | 2.5 | 2.5 | Practised CSS exercises on Codecademy, explored more on w3schools and on other sites searched through Google. |
| 6 | Learn Javascript | 14th May 2016 | 5 | 5 | Practised Javascript exercises on Codecademy and explored more on w3schools. |
| 7 | Learn Bootstrap | 15th May 2016 | 1 | 1 | Explore and understand how bootstrap templates work from official website. |
| 8 | Learn Git | 16th May 2016 | 2 | 2 | Practised Git exercises on Codecademy. |
| 9 | Mission Control 1 (Twitter Bootstrap / jQuery @ The Hangar, I3 Building by Min) | 17th May 2016 | 2.5 | 2.5 | Both of us had personal commitments and were unable to attend live. Mission Control 1 was watched online on Youtube. |
| 10 | Learn Python API | 19th May 2016 | 1 | 1 | Practised Python API on Codecademy. |
| 11 | Review NUSmods API | 20th May 2016 | 2 | 2 | To find and analyse what information is available in the API for us to use for our application. |
| 12 | Discussion on the type of data structure to use, type of programming language to use | 20th May 2016 | 1 | 1 | Discussion on what algorithms we want to use in our application. |
| 13 | Build basic website template | 21st May 2016 | 2 | 2 | Developing the website from scratch with HTML/CSS. |
| 14 | Further development of web page – added functionality | 21st May 2016 | 3 | 0 | Added the interface for users to select their course. |
| 15 | Further development of web page – added layout | 21st May 2016 | 0 | 3 | Basic web layout was designed. Web pages and functionalities needed were identified and reflected on the website. |
| 16 | Mission Control 2 (Game Development by NUS Games Development Group @ Plug-In at Blk 71) | 24th May 2016 | 2 | 2 | Both of us had personal commitments and were unable to attend live. Mission Control 2 was watched online on Youtube. |
| 17 | Read up on creating snapping objects | 27th May 2016 | 1 | 1 | To learn how to incorporate drag-and-drop functionality into our application. |
| 18 | Discussed and developed project README and project log | 28th May 2016 | 2 | 2 | We discussed and completed the project README and project log via WhatsApp and Skype. |
| 19 | Mission Control 3 (Offensive Web Security by NUS Greyhats @ The Hangar, I3 Building) | 1st June 2016 | 4 | 4 | Mission Control 3 was watched online on Youtube. |
| 20 | Learn PHP | 2nd /3rd  June 2016 | 5 | 5 | Learned PHP server-side coding through Youtube. |
| 21 | Populate SQL database with modules for BZA | 4th June 2016 | 2 | 0 | Updated our database through phpmyadmin. |
| 22 | Populate SQL database with modules for CS | 5th June 2016 | 4 | 0 | Updated our database through phpmyadmin. |
| 23 | Learn AJAX | 5th June 2016 | 3 | 3 | Learn AJAX from tutorialspoint and w3schools. |
| 24 | Evaluated other teams’ projects on Skylab | 7th June 2016 | 3 | 3 | Read and discussed other teams’ projects for their evaluation and to aid them in their project. |
| 25 | Mission Control 4 (Machine Learning for Newbies by Various @ Plug-In at Blk 71) | 8th June 2016 | 2.5 | 2.5 | Mission Control 4 was watched online on Youtube. |
| 26 | Started on the design of the website | 10th June 2016 | 0 | 5 | Developed the drop-down table for the modules and implemented a drag-able CSS class which will be used for representing the modules. |
| 27 | Developed the 4 year planner table on our website | 11th June 2016 | 0 | 3 | Created the 4 year planner table and allowed the drag-able module CSS class to be dragged and dropped into the table. |
| 28 | Meeting with mentor | 15th June 2016 | 3 | 3 | Discussion with our mentor on the way forward for the implementation of our project. Decided to try using frameworks to help us on the implementation of our project. |
| 29 | Learn Joomla basics | 17th June 2016 | 0 | 3 | Decided on using the joomla framework to help us implement our project. |
| 30 | Read peer evaluations on Skylab | 17th June 2016 | 1.5 | 1.5 | Read and discussed suggestions made by our evaluators and advisor. |
| 31 | Rebuilt our application on Joomla | 18th June 2016 | 0 | 5 | Found and used a web host which supports Joomla and rebuilt what we have done, so far, into the website. |
| 32 | Explored Joomla extensions | 18th June 2016 | 0 | 3 | Went to search for extensions to help with the functionality of our website. Realised that there is no suitable extension on Joomla which would help us build our drag and drop table. Decided to switch back to using HTML/PHP for our application instead. |
| 33 | Populate SQL database with modules for ISYS/CEG | 18th June 2016 | 3 | 0 | Updated our database through phpmyadmin. |
| 34 | Populate SQL database with modules for ISEC | 19th June 2016 | 2 | 0 | Updated our database through phpmyadmin. |
| 35 | Modify SQL database to suit our project needs | 22nd June 2016 | 2 | 4 | Added core/elective column so that we will be able to load the appropriate modules in their respective columns. |
| 36 | Allowed database retrieval, for our application, for all SoC majors | 22nd June 2016 | 4 | 0 | Used PHP to load the appropriate modules when a user selects their course on our application. |
| 37 | Further modification of database | 23rd June 2016 | 1 | 4 | Added more details to our database. |
| 38 | Added tooltip functionality | 24th June 2016 | 3 | 0 | To show details when a user hovers above a module. |
| 39 | Electives are now showing for all SoC majors | 24th June 2016 | 2 | 0 | Tidy up the module electives shown on our application. |
| 40 | Fixed the tooltip | 24th June 2016 | 2 | 0 | Fixed tooltip functionality. Was unable to show all details previously. |
| 41 | Read up on migration from local to online using digital ocean | 25th June 2016 | 2 | 0 | To learn how to make the website go live on the internet. |
| 42 | Discussed and developed project README, project video and project log for milestone 2 | 26th June 2016 | 3 | 3 | We discussed and completed the stated tasks via WhatsApp and Skype. |
| 43 | Read up on saving state of web application | 27th June 2016 | 1 | 0 | To learn how to save the state of the website so that information will remain on the site when it is refreshed. |
| 44 | Additional PHP learning to learn object orientated PHP | 29th June 2016 | 0 | 4 | Learnt on Codecademy. |
| 45 | Started on handling the pre-requisites for modules | 30th June 2016 | 0 | 1 | Made modules with any prerequisites unable to be dragged through introducing a new CSS class. |
| 46 | Implemented object orientated PHP | 1st July 2016 | 0 | 4 | Such as arrays and passing information across multiple PHP files. To set up for the handling of pre-requisites for modules. |
| 47 | Evaluated other teams’ projects on Skylab | 2nd July 2016 | 2 | 2 | Read and discussed other teams’ projects for their evaluation and to aid them in their project. |
| 48 | Implemented AJAX | 2nd July 2016 | 0 | 7 | Attempted to incorporate AJAX functionality to handle the pre-requisites for modules. |
| 49 | Debugging AJAX functionalities | 3rd July 2016 | 0 | 11 | Debugged issues relating to the AJAX functionality and edited the database to suit the AJAX calls. Modules can now be dragged once their pre-requisites have been met. |
| 50 | Adding information page | 5th July 2016 | 0 | 3 | Done the information page for our application using Bootstrap’s carousel. |
| 51 | Added functionality to handle preclusions | 6th July 2016 | 0 | 4 | Used AJAX to handle the preclusion for modules. |
| **Total Hours** | | | **107** | **140** |  |