



UNIVERSITI MALAYA

Managerial Report

WIX1002

Fundamental of Programming Assignment

Semester 1 2020/2021

Project 6: Donald Duck's Digital Data Duct

Donald Duck decides he's going to take up the coolest job of the decade, Data Scientist (debatable, chicken rice sellers are pretty much elite class in the UM hierarchy). But he is new to programming so he can't do it from scratch. He needs a library. And you'll be the ones to build it for him. You are required to develop a library to help Donald on his Data Science journey.

Tutorial & Lab Group: 1

Lecturer: Assoc. Prof. Dr. Ang Tan Fong

Prepared by:

Name	Matric No.
YAU DE MIN	U2005347/1
KONG JING YUAAN	U2005395/1
HONG ZHAO CHENG	U2005280/1
CHIEW ZHE WEI	U2005368/1
LOK JIA HUI	U2005425/1

Team Formation

Our group is formed in a partially random way among all the students who are taking the course, Fundamental of Programming (FOP) in the same tutorial group 1 tutored by Dr Ang Tan Fong via Java Program which is generated by Prof Dr Ang. Our group was formed on 15th October 2020.

Due to the pandemic COVID-19, we could not meet up with each other physically. Hence, we have created a whatsapp group to discuss the questions in the assignment. Subsequently, we can easily work on this assignment together as a group. Furthermore, our main intention is to learn together on all the questions of the assignment so we can enhance our understanding in programming.

Role Delegation

We were using google docs to write our report. The main reason we would use google docs is because it allows users to create and edit files online, at the same time collaborating with other users in real-time. Besides that, edits can be tracked by users with a revision history presenting changes.

Apart from that, coding was done using a code repository platform, namely GitHub. GitHub is a code hosting platform for version control and collaboration which allows us to work together on this project easily. A private repository was created for this project. With this setup, everyone in the group is able to contribute to this project seamlessly.

Members	Role	Responsibilities
YAU DE MIN U2005347/1	<ul style="list-style-type: none"> • Coding • Debugging • Testing • Implement extra feature 	Emphasise on compilation <ul style="list-style-type: none"> • Combine and compile coding for different part to ease usage
KONG JING YUAAN U2005395/1	<ul style="list-style-type: none"> • Coding • Debugging • Technical Reporting • Testing • Implement extra feature 	Emphasise on reporting <ul style="list-style-type: none"> • Maintain organised and up to date reporting • Ensure all features required implemented
HONG ZHAO CHENG U2005280/1	<ul style="list-style-type: none"> • Coding • Debugging • Managerial Reporting • Testing • Implement extra feature 	Emphasise on debugging <ul style="list-style-type: none"> • Search and test for compilation and runtime errors • Bugs checking
CHIEW ZHE WEI U2005368/1	<ul style="list-style-type: none"> • Coding • Debugging • Testing • Implement extra feature 	Emphasise on extra features <ul style="list-style-type: none"> • Plan and code for suitable extra features
LOK JIA HUI U2005425/1	<ul style="list-style-type: none"> • Coding • Debugging • Technical Reporting • Testing • Implement extra feature 	Emphasise on coding <ul style="list-style-type: none"> • Plan and code for the main features

Project Timeline

Date	Agenda
15th October 2020	Team formation
7th November 2020	Start writing Managerial Report
15th November 2020	Start to discuss about the assignment
20th November 2020	Role assignment
21st November 2020	Start to write code
15th December 2020	Test case and debugging
18th December 2020	Fix bug
2nd December 2020	Start writing Technical report
8th December 2020	Finalised all extra features
8th January 2021	Finalize reports

Problems Faced

Date	Problems	Solution
15th October 2020	Formation of team	Due to covid-19, it is hard to see each other.
10th November 2020	Time management	Strict compliance to reasonable and achievable deadlines.
15th November 2020	Unable to meet up physically for discussion	Meet up with each other via Microsoft Team.
18th November 2020	Question understanding and algorithm designing	Seek advice from seniors and other group with same questions
21st November 2020	Codes sharing difficulty due to large coding	Use GitHub so everyone can paste and update their coding seamlessly
18th December 2020	Found several bugs and limitations	Discuss about the solutions to fix the bugs via Microsoft Team.