  v

FACULTY OF INFORMATICS

**COURSEWORK COVERSHEET**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **SUBJECT’S INFORMATION:** | | | | | | | | |
| Subject: | | CSCI318 Software Engineering Practices & Principles | | | | | | |
| Session: | | July 2021 | | | | | | |
| Programme / Section: | | Computer Science/ Information Technology | | | | | | |
| Lecturer: | | **Faizal** | | | | | | |
| Coursework Type  *(Tick appropriate box)* | | * Individual  **Group** | | | | | | |
| Coursework Title: | | Group Project 1 | | | Coursework Percentage: | | 10% | |
| Hand-out Date: | | Week 1 | | | Received By :  (signature) | |  | |
| Due Date: | | Week 6 | | | Received Date : | |  | |
| **STUDENT’S INFORMATION:** | | | | | | | | |
| Student’s Name & ID: | | **1**  **Muhammad Adam Bin Md Yazid** | | **2**  **Cheah Shao Qi** | | **3**  **Jacky Su Leh Hong** | | **4** |
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| **STUDENT’S DECLARATION** | | | | | | | | |
| By signing this, I / We declare that:   1. This assignment meets all the requirements for the subject as detailed in the relevant Subject Outline, which I/ we have read. 2. It is my / our own work, and I / we did not collaborate with or copy from others. 3. I / we have read and understand my responsibilities under the University of Wollongong’s policy on plagiarism. 4. I / we have not plagiarized from published work (including the internet). Where I have used the work from others, I / we have referenced it in the text and provided a reference list at the end of the assignment.   I am / we are aware that late submission without an authorized extension from the subject co-ordinator may incur a penalty.  *(See your subject outline for further information).* | | | | | | | | |
| Signature: | **1** | | **2** | | | **3** | | **4** | **5** |

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# PROJECT OVERVIEW

The system proposed is a Health Domain Web Application. The Web Application will be built using data sources gathered from reputable sites. The format of the data will be extracted from a file format called CSV. Our Health domain Web application will be focus mainly on Data concerning breast cancer and mammogram screening. We aim to analyse the frequency and trends of the breast cancer to extract useful information for doctors or general public to view. These extracted data will come visual data formats such as bar charts, pie charts, line charts, map hotspots and table. As mentioned previously, our target audience for the system will mainly be (insert something here). Our aim is to identify symptoms of early breast cancer and the regions where breast cancer mainly develops.

# GROUP STRUCUTE, ROLES AND RESPONSIBILITIES

|  |  |
| --- | --- |
| Name: | Muhammad Adam Bin Md Yazid |
| Role: | Project Leader & Final Program Tester |
| Responsibilities: | * Documentation Compilation * Manage Team(Role Delegation) * Interface Design * Program Final Phase Testing |

|  |  |
| --- | --- |
| Name: | Cheah Shao Qi |
| Role: | Main Programmer |
| Responsibilities: | * Determine Project technical Requirement * Create working Web App * Implement all functions requested by client * Maintain and update Database Management System |

|  |  |
| --- | --- |
| Name: | Jacky Su Leh Hong |
| Role: | Secondary Programmer & Interface Designer & Direct Feedback Tester |
| Responsibilities: | * Helps Main programmer implement functions * Gives immediate feedback on functions implemented during development phase * Creates flow of navigation and design interface |

# TOOLS USED

## 3.1 Gannt Chart

# TOOLS USED IN PROJECT

Programming:

1.PHP

2.XAMPP

Documentation:

Google Docs

Snipping Tool

Taiga.io

Microsoft Project

UMLET

## 4.1 Microsoft Visio

Microsoft Visio is a tools that helps visualize data in an understandable way. It helps link data into outputs that are clearly visualized and presentable to developers and clients. Visio can do a multitude of visualized data formats such as flow chart, line and dot graph, pie-charts and so on. We have used this Tool to create the Conceptual diagram shown later to visualize the flow of our system as well as the data retrieved from the database through GWT Services.

## 4.2 Microsoft Project

Microsoft Project is a management software use by our group to help arrange and establish a timeline and end goal for our project. Made 37 years ago, Microsoft Project can due a range of functions such as, scheduling, resource tracking, budget management and analysing workloads.

## 4.3 PHP

This is a server-side language used alongside a design language. In this instance, both PHP and html is being used. PHP is a language that is more than 25 years old and used to be a widespread main language for many main websites. The reason we used PHP is because it is open source and free. So no payment barriers or legal actions can be taken for this development. Furthermore, PHP is a simple language that has straightforward syntax functions. Besides that, PHP has good integration with databases. This allows more flexibility in choosing different types of database depending on the system requirements. Lastly is because since PHP is so widely popular, they are numerous guides and website where a developer can seek help and/or learn new PHP implementation methods to further improve a System Development.

## 4.4 XAMMP

XAMPP is a tool used to help us create and test system on a local webserver. It is a tool developed by Apache Company. It consists of multiple functions such as Apache, Perl, MariaDB, PhpMyAdmin, Open SSL and Xammpp Main Control Panel.

## 4.5 Snipping Tool

Snipping tools is a tool provided by Microsoft. It is used to take snapshots of work/items on a user’s computer screen. The use can then use the snapshot taken to save or share based on the users demands. The snipping tools have numerous functions such as Free-form, rectangular, window and full screen snip. This tool is mainly used by us to help take snapshots of our software to be used in our documentation.

## 4.6 Google Docs

Google Docs is an online word processor that is provided by Google. It is a web-based Editor that not only functions as a word processor but also includes function such as Google Sheets, Slides, Drawing and Forms. The reason for use of this tool is to allow numerous users to edit/view a 24/7 live update of a word document without the hassle of constant of saving and exporting the file.

## 4.7 Taiga.io

Taiga.io is an open-source project management system that is used for simple start-ups, agile developers and designers. It supports numerous templates such as Kanban and Scrum. There is also a backlog to show a running list of all features and user stories in a single project.

## 4.8 UMLET

This tools are basically a fast and simple way of creating UML type diagrams. The UML nodes can easily be modified and easily tailored based on the user’s demands. This tool is mainly used in this project to help create the UML diagram and also the state chart diagram.

# 5.0 System Architecture

## 5.1 Conceptual Diagram with explanation

# 6.0 Overall Description

## 6.1 Product Perspective

The website is mainly catered around a type of cancer that affects the breast area. It will be a website that will be hosted online with the intent of spreading awareness, documenting trends, showcasing visual data of breast cancer. The website uses a dynamic dataset to make sure all the data showcased is up-to-date and relevant.

## 6.2 User Characteristics

|  |  |
| --- | --- |
| User | Description |
| Medical Students | Final Year Medical Students can access our Website when they are interested in creating thesis regarding Mammogram Scanning or Breast Cancer in general. They can directly benefit from the data insights gained from the website. |
| Normal User | Casual Website Visitors that can access the Website to help expand their horizon of understanding on the subject Breast Cancer |
| IT Technician | The IT Technician will be in charge of maintenance and updates on the system. Furthermore, the IT technician will handle the implementation of feedback and a 24/7 on hand Technician will be on standby in case of a server shutdown or failure. |
| Admin Staff | Admin Staff will be in charge of logistic of the System and managing the server uptime and usability. Furthermore Admin Staff will handle outside feedback and channel it to appropriate IT Technician to handle the feedback problem. |
| Health Researcher | Able to use the website as a reliable source to reference for any Paper Publication or Newspaper articles updates that main topic involve Breast cancer or/and Mammogram Screening |

## 6.3 Constraints

* Web Design needs to be able to fit both mobile and desktop views
* New sources of datasets need to be manually processed at the backend by admins of the system before it can be added to the system for end-user use.
* If dynamic dataset used in system decides to stop update indefinitely, the data insights made will be rendered obsolete

## 6.4 Assumptions

* This application is made with English in mind, so we assume that the main users of this system fully understand the language English
* We assume that users of this system are fairly proficient in online technology and is able to correctly navigate around our system with little guidance.

## 6.5 Dependencies

* Data visualization will be shown to the end user using any sort of Web Application. Data retrieved for the datasets will be sourced by the dynamic or non-dynamic(csv) file. If either of those files are deleted on the server side, the data chart will be dynamically changed to show no results or NULL values.

# 7.0 User Stories and Taiga.io

## 7.1 Scrum Roles

**System Client(Stakeholder)**

The client of the system will provide the developers with specifications for the system in forms of User Stories. These user stories will detail the requirements, constraints and dependencies of the system that the Client wishes to develop. The Client expects the system to finish and reach the end of development on the provided deadline.

**Scrum Leader(Main Scrum User)**

This role will be the one that is in charge of overseeing both the project and the development team work. The Scrum Leader will add task to the scrum backlog for the development team to view and understand their roles and work delegation each week. Furthermore, the scrum leader can call of weekly progress meetings to confirm and check on the development team progress. Lastly, scrum leader can ensure a smooth workflow by providing additional support to the development team when faced with challenges.

**Development Team**

Basically the combination of workers that will be in charge of developing the system based on the client requirements. They are manged by the Scrum Leader.

## 7.2 User Stories

#41 Filtering of Data in Charts/Table

#68 Add Filter by Category System

#34 Dataset Visualization

#67 Crate Bar Chart data Visualizer

#69 Create Pie Chart data Visualizer

#4 Dynamic Data

#83 Find Data that is updated in intervals

#38 Adequate Navigation Bar

#71 Create Back Button function

#73 Create Navigation Bar

#72 Create Scrolling Function

#32 Mobile web App Integration

#74 Web Application with Mobile Integration

#33 Related Information On Dataset

#77 How Breast Cancer occurs information

#78 Symptoms of Breast Cancer

#79 How to prevent Breast Cancer

#35 About Page for Developer

#62 Include Data for about us

#36 Include Exception Handling

#61 Code Handling Exception Handling

#37 Include Software Qualities Concept

#63 Create Security Qualities

#64 Create Reliability Qualities

#65 Create Performance Efficiency Qualities

#39 Implement 2 colour Theme

#82 Using Blue and White as Theme

#40 Design of Team Logo

#80 Team Logo Creation

#81 Team Logo Design

#41 Filtering of Data in Charts/Table

#68 Add Filter by Category System

## 7.3 Taiga.io Sprint & Task

7.3.1 Week 3

Graphical user interface, application

Description automatically generated

#20 Review Software Specification

#22 Software Specification Analysis

#19 Discuss Project Requirement

#23 Project Requirement

#17 Discuss Project Scope

#24 Project Scope

7.3.2 Week 4

A screenshot of a computer

Description automatically generated

#21 Draft Preliminary Software/Hardware Research

#25 Software Specification Analysis

#18 Conduct Project Analysis

#26 Project Health Analysis

7.3.3 Week 5

Graphical user interface, application, Teams

Description automatically generated

#9 Interview Session(Client)

#28 Client Requirements

#8 Web App Requirements

#97 Web App Requirement List

#6 UI Design

#27 Prototype UI

#1 Filtering Criteria for Database

#2 Identifying Criteria to be used

#3 Dataset Views

7.3.4 Week 6

Graphical user interface, application

Description automatically generated

#10 Project Report(Week 6)

#29 Mid Semester Project Deliverable

#15 Documentation Creation

#30 Document Checked and Submitted

#7 UX Design

#31 UX Discussion

7.3.5 Week 7

A screenshot of a computer

Description automatically generated

#87 Weekly Progress check

#88 Check Website Progress

#90 Check Data Articles

#Check Report Progress

7.3.6 Week 8

A picture containing table

Description automatically generated

#4 Dynamic Data

#83 Find Data that is updated in intervals

7.3.7 Week 9

Graphical user interface, application, table

Description automatically generated

#40 Design of Team Logo

#80 Team Logo Creation

#81 Team Logo Design

#39 Implement 2 colour Theme

#82 Using Blue and White as Theme

7.3.8 Week 10

Graphical user interface, text

Description automatically generated

#33 Related Information On Dataset

#77 How Breast Cancer occurs information

#78 Symptoms of Breast Cancer

#79 How to prevent Breast Cancer

7.3.9 Week 11

Graphical user interface, application, website

Description automatically generated

#38 Adequate Navigation Bar

#71 Create Back Button function

#73 Create Navigation Bar

#72 Create Scrolling Function

#32 Mobile web App Integration

#74 Web Application with Mobile Integration

7.3.10 Week 12

Graphical user interface, website

Description automatically generated

#41 Filtering of Data in Charts/Table

#68 Add Filter by Category System

#34 Dataset Visualization

#67 Crate Bar Chart data Visualizer

#69 Create Pie Chart data Visualizer

7.3.11 Week 13

A screenshot of a computer

Description automatically generated

#37 Include Software Qualities Concept

#63 Create Security Qualities

#64 Create Reliability Qualities

#65 Create Performance Efficiency Qualities

7.3.12 Week 14

Graphical user interface, application

Description automatically generated

#35 About Page for Developer

#62 Include Data for about us

#36 Include Exception Handling

#61 Code Handling Exception Handling

7.3.13 Week 15

Graphical user interface, application

Description automatically generated

#42 Video Presentation

#56 Video Editing  
 #98 Video Recording

#11 Final Report + Deliverable (Week 15)

#57 Final Report Creation

#58 Final Report Compilation

# 8.0 Design and Implementation

## 8.1 Class Diagram

Diagram, schematic

Description automatically generated

## 8.2 Use Case Diagram

# Diagram Description automatically generated

## 8.3 Use Case Description

## Use Case 1: View Home Page

|  |  |
| --- | --- |
| Actors | User |
| Stakeholder and Needs | None |
| Precondition | None |
| Postcondition | None |
| Trigger | Click Home page button |
| Basic Flow | 1. User browsing to the web application page 2. User Click on Home button 3. System browse user to the home page. |
| Extensions | None |

## 

## Use Case 2: View Analytics Page

|  |  |
| --- | --- |
| Actors | User |
| Stakeholder and Needs | User – Require user login to continue browsing the Analytics page. |
| Precondition | None |
| Postcondition | None |
| Trigger | Click on Analytics page button on navigation bar. |
| Basic Flow | 1. User entering the web application URL link 2. User requires to login. 3. User clicks on the Analytics page button. 4. Browser will bring user to the Analytics Page. |
| Extensions | None |

## Use Case 3: Filtering Data

|  |  |
| --- | --- |
| Actors | User |
| Stakeholder and Needs | User – Require user browsing to the Analytics page to filtering data. |
| Precondition | None |
| Postcondition | None |
| Trigger | Enter Search data or Select data in input field. |
| Basic Flow | 1. User requires to login. 2. User browses to the Analytics page. 3. User using search bar to filter data. 4. System displays the filter data on the analytics chart. |
| Extensions | None |

## Use Case 4: View Article Page

|  |  |
| --- | --- |
| Actors | User |
| Stakeholder and Needs | User – Require user login to continue browsing the Article Page. |
| Precondition | None |
| Postcondition | None |
| Trigger | Click Articles button and select article on navigation bar. |
| Basic Flow | 1. User entering the web application URL link 2. User requires to login. 3. User clicks on the Article page button. 4. Browser will bring user to the Article Page. |
| Extensions | None |

## Use Case 5: View Profile

|  |  |
| --- | --- |
| Actors | User |
| Stakeholder and Needs | User – Require user login to continue browsing the Profile Page. |
| Precondition | None |
| Postcondition | None |
| Trigger | Click User icon on the navigation bar and click Profile button. |
| Basic Flow | 1. User entering the web application URL link 2. User requires to login. 3. User clicks on the user icon and click Profile button. 4. Browser will bring user to the Profile page. |
| Extensions | None |

## Use Case 6: Change Password

|  |  |
| --- | --- |
| Actors | User |
| Stakeholder and Needs | User – Require user browse to the profile page to use change password function. |
| Precondition | None |
| Postcondition | None |
| Trigger | Click change password button. |
| Basic Flow | 1. User requires to login. 2. User browses to the profile page by click Profile button on the navigation bar. 3. User click change password button. 4. User enters new password and click change password button. 5. System sent user change password request to admin. |
| Extensions | None |

## Use Case 7: Edit Article

|  |  |
| --- | --- |
| Actors | Admin |
| Stakeholder and Needs | Admin – Require admin login to edit article |
| Precondition | None |
| Postcondition | None |
| Trigger | Click on update button Article List page. |
| Basic Flow | 1. Admin entering the web application URL link 2. Admin requires to login. 3. Admin clicks on the Article List button. 4. Browser will bring admin to the Article List Page. 5. Admin click on update to edit specific article. |
| Extensions | None |

## Use Case 8: Add User

|  |  |
| --- | --- |
| Actors | Admin |
| Stakeholder and Needs | Admin – Require admin login to add user |
| Precondition | None |
| Postcondition | None |
| Trigger | Click on add user button in User List page. |
| Basic Flow | 1. Admin entering the web application URL link 2. Admin requires to login. 3. Admin clicks on the User List button on navigation bar. 4. Browser will bring admin to the User List Page. 5. Admin click on Add User button to add new user or admin. |
| Extensions | None |

## Use Case 9: Edit User Info

|  |  |
| --- | --- |
| Actors | Admin |
| Stakeholder and Needs | Admin – Require admin login to edit user info |
| Precondition | None |
| Postcondition | None |
| Trigger | Click on update button in User List page. |
| Basic Flow | 1. Admin entering the web application URL link 2. Admin requires to login. 3. Admin clicks on the User List button on navigation bar. 4. Browser will bring admin to the User List Page. 5. Admin click on update button to edit user or other admin information. |
| Extensions | None |

## Use Case 10: Add Article

|  |  |
| --- | --- |
| Actors | Admin |
| Stakeholder and Needs | Admin – Require admin login to add article |
| Precondition | None |
| Postcondition | None |
| Trigger | Click on Add Article button in Article List page. |
| Basic Flow | 1. Admin entering the web application URL link 2. Admin requires to login. 3. Admin clicks on the Article List button on navigation bar. 4. Browser will bring admin to the Article List Page. 5. Admin click on Add Article button to add new article. |
| Extensions | None |

## 8.4 Sequence Diagram

Diagram

Description automatically generated

## 8.5 Data Persistence Diagram

Graphical user interface, application

Description automatically generated

## 8.6 Entity Relationship Diagram

# 9.0 System Showcase

## 11.1 System Menu

## 11.2 System Report

## 

# 10.0 UNIT TESTING

# 11.0 Project Issues Faced

# 12.0 Conclusion

In conclusion, based on our current standing in the project, we are making good progress as we have been able to meet our expected outcome at the end of week 6 which was to get our dataset to output on a web application. Since we have already done the preliminary research, all that is needed to do is develop the web application for commercial use. AS mentioned above, we plan to switch from GWT to PHP and Ajax. This is because the PHP-Ajax combination gives us more flexibility in terms of design and also is easier to develop since we are more accustomed to the aforementioned language. We hope to finish this project by the given deadline with all the requirements functions finished and ready.

# 13.0 APPENDICES

## 13.1 Appendix A Weekly Meeting Reports

|  |  |
| --- | --- |
| **Group Meeting – Week 3** | |
| Date: | 20 August 2021 / 6:00 PM |
| Member Present: | 1. Jacky Su Leh Hong 2. Muhammad Adam Bin Md Yazid 3. Cheah Shao Qi |
| Member Absent: | No one |
| Location: | WhatsApp Chat System |
| Details Discussed: | This meeting was to established roles of the group members. The role delegation is listed as below.  **1. Roles**  Project Manager: Muhammad Adam Bin Md Yazid  Lead Programmer: Cheah Shao Qi  Lend Designer: Jack Su Leh Hong  Program Tester: Jacky Su Leh Hong, Cheah Shao Qi  Documentation: Muhammad Adam bin Md Yazid, Cheah Shao Qi  **2. Taiga.io**  The Taiga.io is created with the name:  CSIT318-AUG2021-RainbowSixStudy-Health.  Added the initial user stories and the backlogs up to week 13. |

|  |  |
| --- | --- |
| **Group Meeting – Week 4** | |
| Date: | 27 August 2021 / 6:00 PM |
| Member Present: | 1. Jacky Su Leh Hong 2. Muhammad Adam Bin Md Yazid 3. Cheah Shao Qi |
| Member Absent: | No one |
| Location: | WhatsApp Chat System |
| Details Discussed: | **1. Delegation of Specific Task**  Muhammad Adam Bin Md Yazid – Gannt Chart and Database Research  Cheah Shao Qi – Create initial webpage backbone  Jacky Su Leh Hong – Create Design Prototype and Use Case Diagram |

|  |  |
| --- | --- |
| **Group Meeting – Week 5** | |
| Date: | 3 September 2021 / 6:00 PM |
| Member Present: | 1. Jacky Su Leh Hong 2. Muhammad Adam Bin Md Yazid 3. Cheah Shao Qi |
| Member Absent: | No one |
| Location: | WhatsApp Chat System |
| Details Discussed: | **1. Weekly Progress Check**  Check on progress of members work.  Update Taiga IO with specific task.  Rea-firm project specification and requirements. |

|  |  |
| --- | --- |
| **Group Meeting – Week 6** | |
| Date: | 10 September 2021 / 6:00 PM |
| Member Present: | 1. Jacky Su Leh Hong 2. Muhammad Adam Bin Md Yazid 3. Cheah Shao Qi |
| Member Absent: | No one |
| Location: | WhatsApp Chat System |
| Details Discussed: | **1. Mid Deliverable Progress Report**  Compile Work for progress report:  Working Prototype  Use Case Diagram  Gantt Chart  Start on Progress Report Specifications:  Group structure  Introduction  Project Overview  Issues Faced |

|  |  |
| --- | --- |
| **Group Meeting – Week 7** | |
| Date: | 17 September 2021 / 6:00 PM |
| Member Present: | 1. Jacky Su Leh Hong 2. Muhammad Adam Bin Md Yazid 3. Cheah Shao Qi |
| Member Absent: | No one |
| Location: | WhatsApp Chat System |
| Details Discussed: | **1. Video Demo Creation**  Take the working prototype and start to create a Video Demo based on the existing functions that are working.  **1. Update Taiga.IO**  Update Taiga IO Weekly Backlogs with new Work |

|  |  |
| --- | --- |
| **Group Meeting – Week 8** | |
| Date: | 24 September 2021 / 6:00 PM |
| Member Present: | 1. Jacky Su Leh Hong 2. Muhammad Adam Bin Md Yazid 3. Cheah Shao Qi |
| Member Absent: | No one |
| Location: | WhatsApp Chat System |
| Details Discussed: | **1. Video Demo Creation**  Take the working prototype and start to create a Video Demo based on the existing functions that are working.  **1. Update Taiga.IO**  Update Taiga IO Weekly Backlogs with new Work |

|  |  |
| --- | --- |
| **Group Meeting – Week 10** | |
| Date: | 8 October 2021 / 6:00 PM |
| Member Present: | 1. Jacky Su Leh Hong 2. Muhammad Adam Bin Md Yazid 3. Cheah Shao Qi |
| Member Absent: | No one |
| Location: | WhatsApp Chat System |
| Details Discussed: | **1. New User Stories**  Discuss and log the new user stories provided.  **1. Update Taiga.IO**  Update Taiga IO Weekly Backlogs with new Work  Update Taiga IO with the new User Stories |

|  |  |
| --- | --- |
| **Group Meeting – Week 11** | |
| Date: | 15 October 2021 / 6:00 PM |
| Member Present: | 1. Jacky Su Leh Hong 2. Muhammad Adam Bin Md Yazid 3. Cheah Shao Qi |
| Member Absent: | No one |
| Location: | WhatsApp Chat System |
| Details Discussed: | **1. Delegate task of new user stories**  Assign Cheah Shao Qi too Change Web App to be able to support mobile application  Assign Muhammad to Find extra information on Health Domain Topic |

|  |  |
| --- | --- |
| **Group Meeting – Week 12** | |
| Date: | 22 October 2021 / 6:00 PM |
| Member Present: | 1. Jacky Su Leh Hong 2. Muhammad Adam Bin Md Yazid 3. Cheah Shao Qi |
| Member Absent: | No one |
| Location: | WhatsApp Chat System |
| Details Discussed: | **1. Discuss Data Visualization Method**  Discuss which method is best to show our data.  We decided on pie and bar chart. |

|  |  |
| --- | --- |
| **Group Meeting – Week 14** | |
| Date: | 5 November 2021 / 6:00 PM |
| Member Present: | 1. Jacky Su Leh Hong 2. Muhammad Adam Bin Md Yazid 3. Cheah Shao Qi |
| Member Absent: | No one |
| Location: | WhatsApp Chat System |
| Details Discussed: | **1. Finalizing Final Report**  Muhammad Adam will Compile all work and Take screenshot of Complete System.  Jacky Su Leh Hong will create and finalize State Chart  Muhammad Adam will Take Screenshot of User Stories and log Taiga.io Backlog |

|  |  |
| --- | --- |
| **Group Meeting – Week 15** | |
| Date: | 12 November 2021 / 6:00 PM |
| Member Present: | 1. Jacky Su Leh Hong 2. Muhammad Adam Bin Md Yazid 3. Cheah Shao Qi |
| Member Absent: | No one |
| Location: | WhatsApp Chat System |
| Details Discussed: | **1. Create final Demo video**  Discuss how to create demo video.  Adam will create script.  Cheah will do the recording and explanation. |

## 13.2 Appendix A Member Contribution Form

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| **CSCI318- Software Engineering Practices & Principles**  **Group Members Contribution Form** | | | | |
| Name: Muhammad Adam Bin Md Yazid | **Contribution Scope** | | | |
| <Member’s 1 name here> | **Planning & Management**  **(Gantt Chart & Taiga.io entries)** | **Preparation of any diagrams & document** | **Group Meeting**  **Attendance** | **System Development** |
| Evaluation of other members: | | | | |
| 2. Cheah Shao Qi | 5 | 5 | 5 | 5 |
| 3.Jacky Su Leh Hong | 5 | 5 | 5 | 5 |
|  |  |  |  |  |
|  | | | | |
| Name: Cheah Shao Qi | **Contribution Scope** | | | |
| <Member’s 2 name here> | **Planning & Management**  **(Gantt Chart & Taiga.io entries)** | **Preparation of any diagrams & document** | **Group Meeting**  **Attendance** | **System Development** |
| Evaluation of other members: | | | | |
| 1. Muhammad Adam Bin Md Yazid | 5 | 5 | 5 | 5 |
| 3. Jacky Su Leh Hong | 5 | 5 | 5 | 5 |
|  |  |  |  |  |
|  | | | | |
| Name: Jacky Su Leh Hong | **Contribution Scope** | | | |
| <Member’s 3 name here> | **Planning & Management**  **(Gantt Chart & Taiga.io entries)** | **Preparation of any diagrams & document** | **Group Meeting**  **Attendance** | **System Development** |
| Evaluation of other members: | | | | |
| 1. Muhamad Adam Bin Md Yazid | 5 | 5 | 5 | 5 |
| 2.Cheah Shao Qi | 5 | 5 | 5 | 5 |
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