
Software Engineering & Project

Snapshot Week 3 of Group SMU6

Staff Management Utility

Jin Yin (a1761810)

Jingyi Cui (a1787453)

Ka Yiu Eric Ma (a1792052)

Qi Long (a1763385)

Xinquan Jiang (a1753115)

Yingyao Lu (a1784870)

Ying Li (a1776903)

Yucheng Geng (a1756633)

Zihe Wang (a1684198)

Product Backlog and Task Board:

The product backlog:

4 Product Backlog + ...

- As a user, I want to translate line items into a graphical organisational chart so that I'm able to know the people I work with. ...
Added by a1792052
- As a user, I want to search through the organizational chart to find the person who I am looking for. ...
Added by a1792052
- As a user/manager/admin, I want to generate reports about the information available in the system. ...
Added by a1792052
- As a user/Administrator/developer, I want to see updated documentation so that I know how the system operates. ...
Added by a1792052

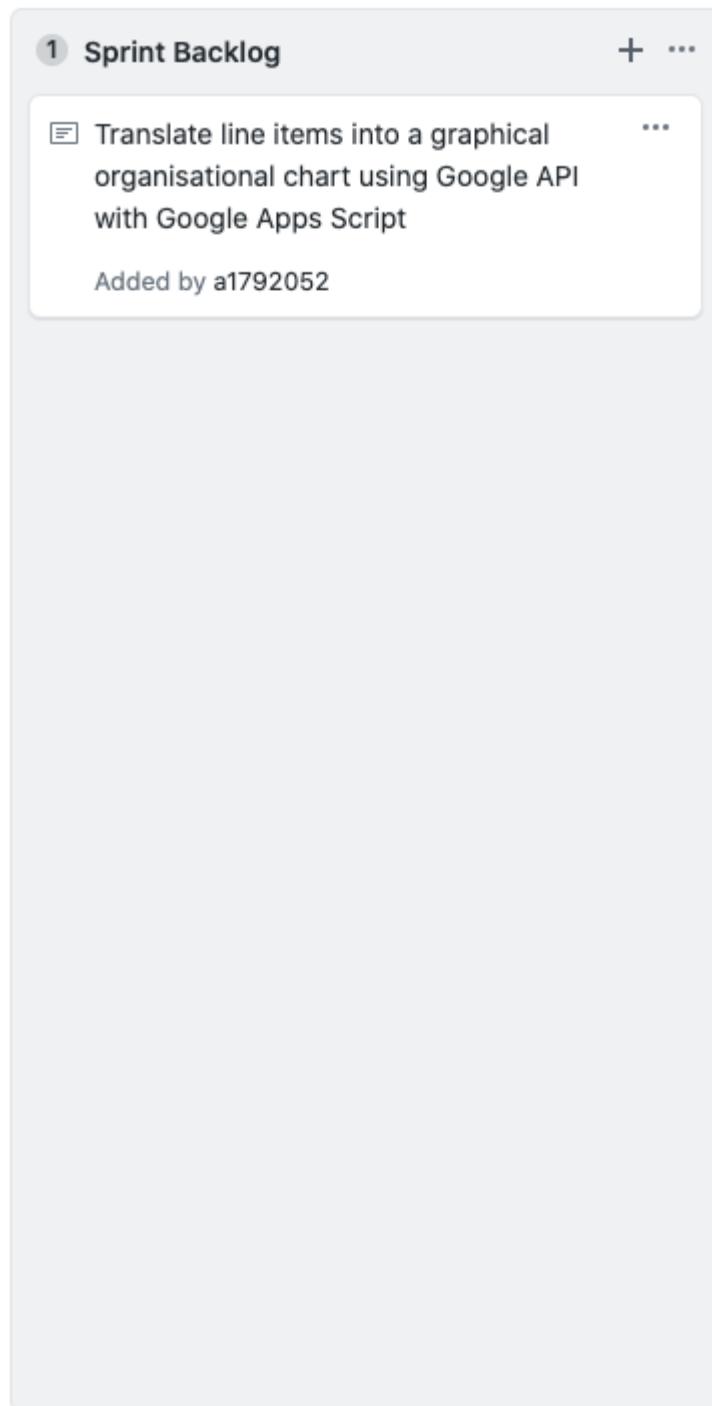
The task board:

5 To do + ...

- ❑ Fully testing the product to make sure all the functions in the required environments without any glitches
(1 point) @Yucheng Geng
Added by a1761810
- ❑ Editing the required documentations related to technical, user, maintenance.
(2 points) @Ying Li @Jingyi Cui
Added by a1761810
- ❑ Setup and document workflow for Google Apps Script development
(2 points) @Eric Ma
Added by a1792052
- ❑ Create a sample spreadsheet according to the requirement descriptions
Implement functions to read data from the sample spreadsheet
(3 points) @Jin Yin @Yingyao Lu
Added by a1792052
- ❑ Implement functions to display data into a graphical organizational chart
(5 points) @Zihe Wang @Qi Long
@Xinquan Jiang
Added by a1792052

Sprint Backlog and User Stories:

Sprint backlog:



Description of the user stories:

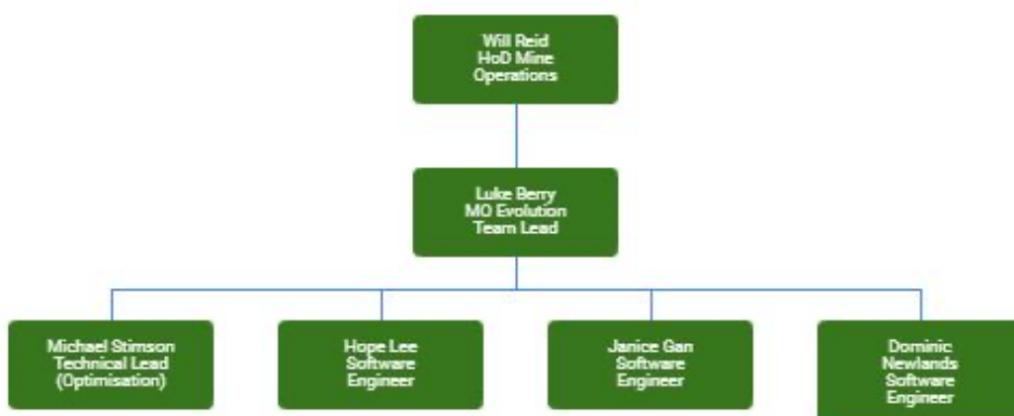
Users need to have a function that can show the spreadsheet content as a graphical organisational chart. In this chart, the company structure, departments, and personals can be shown directly. In addition, users are able to conveniently search information of staff who are from different departments or different locations, say by name, etc. Finally, administrators are able to generate reports in predefined formats,

Definition of Done

Line items can be translated into a graphical organisational chart. All the test information is based on the sample google spreadsheet.

MO Evolution	Luke Berry	MO Evolution Team Lead	Will Reid
	Michael Stimson	Technical Lead (Optimisation)	Luke Berry
	Hope Lee	Software Engineer	Luke Berry
	Janice Gan	Software Engineer	Luke Berry
	Dominic Newlands	Software Engineer	Luke Berry

- Complete Coding
- Peer reviewed
- Performance test is complete
 - Read line items (shown in the following figure) correctly.
 - Parse the staff information into correct attributes.
 - Show the graph correctly including the position, organization structure, staff information etc as follows.



- Technical documentation is complete
- The customer sign-off to confirm their requirement is satisfied.

Summary of Changes:

1. The team atmosphere changed. All of members learned a lot from each other. Group members can trust each other, since every member has contributed to the project.
2. Communication efficiency improved. As members getting familiar with each other, members can talk more openly. Another cause of the improvement is that communication tools and development tools have been decided and used.
3. The group start to use project management feature on GitHub. Instead assigning jobs to each member by the scrum master, members can choose their tasks by themselves. If the number of members on one task is too many, scrum master would adjust the number of each task to balance the average task points of each member.
4. The code development is in progress. Members have starting learning Google App Script, Java Script and other coding languages. The code architecture has been developed. Members and tasks of back-end and front-end teams have been assigned.

Snapshot Week 4 of Group SMU6

Staff Management Utility

Jin Yin (a1761810)

Jingyi Cui (a1787453)

Ka Yiu Eric Ma (a1792052)

Qi Long (a1763385)

Xinquan Jiang (a1753115)

Yingyao Lu (a1784870)

Ying Li (a1776903)

Yucheng Geng (a1756633)

Zihe Wang (a1684198)

Product Backlog and Task Board:

The product backlog:

4 Product Backlog

- As a user, I want to translate line items into a graphical organisational chart so that I'm able to know the people I work with. More
Added by a1792052
- As a user, I want to search through the organizational chart to find the person who I am looking for. More
Added by a1792052
- As a user/manager/admin, I want to generate reports about the information available in the system. More
Added by a1792052
- As a user/Administrator/developer, I want to see updated documentation so that I know how the system operates. More
Added by a1792052

The task board:

The task board interface displays a list of five tasks under the 'To do' category. Each task is represented by a light gray card with a list icon and a summary text. The tasks are:

- The chart of the root could use an absolute position.(1 point) @Zihe Wang**
Added by a1761810
- The structure should be related to the department, not the name(1 point)@Zihe Wang**
Added by a1761810
- Clients could get lost because they don't know how to operate the chart. So we can add a button such as a "+" meaning expand, and "-" meaning collapse. (2 points)**
Added by a1761810
- Fully testing the product to make sure all the functions in the required environments without any glitches (1 point) @Yucheng Geng**
Added by a1761810
- Editing the required documentations related to technical, user, maintenance. (2 points) @Ying Li @Jingyi Cui**
Added by a1761810

5 Doing

+ ...

- ☒ The second snapshot for Week 4 (1 point) ...
@Ying Li @Jingyi Cui

Added by a1787453

- ☒ When a user hover on a block of the chart, There needs to be a new window or pops-up to show the details of this personnel (2 points) @Zihe Wang @Eric Ma

Added by a1792052

- ❗ **When a user clicks a block of the chart, There needs to be a new window or pops-up to show the details of this personnel (2 points) @Zihe Wang @Eric Ma**

#1 opened by a1792052

- ☒ Create a sample spreadsheet according to the requirement descriptions
Implement functions to read data from the sample spreadsheet
(3 points) @Jin Yin @Yingyao Lu

Added by a1792052

- ☒ Implement functions to display data into a graphical organizational chart
(5 points) @Zihe Wang @Qi Long
@Xinquan Jiang

3 Done

+

...

Initial report and snapshot. ...

Added by a1761810

Setup and document workflow for Google ...

Apps Script development

(2 points) @Eric Ma

Added by a1792052

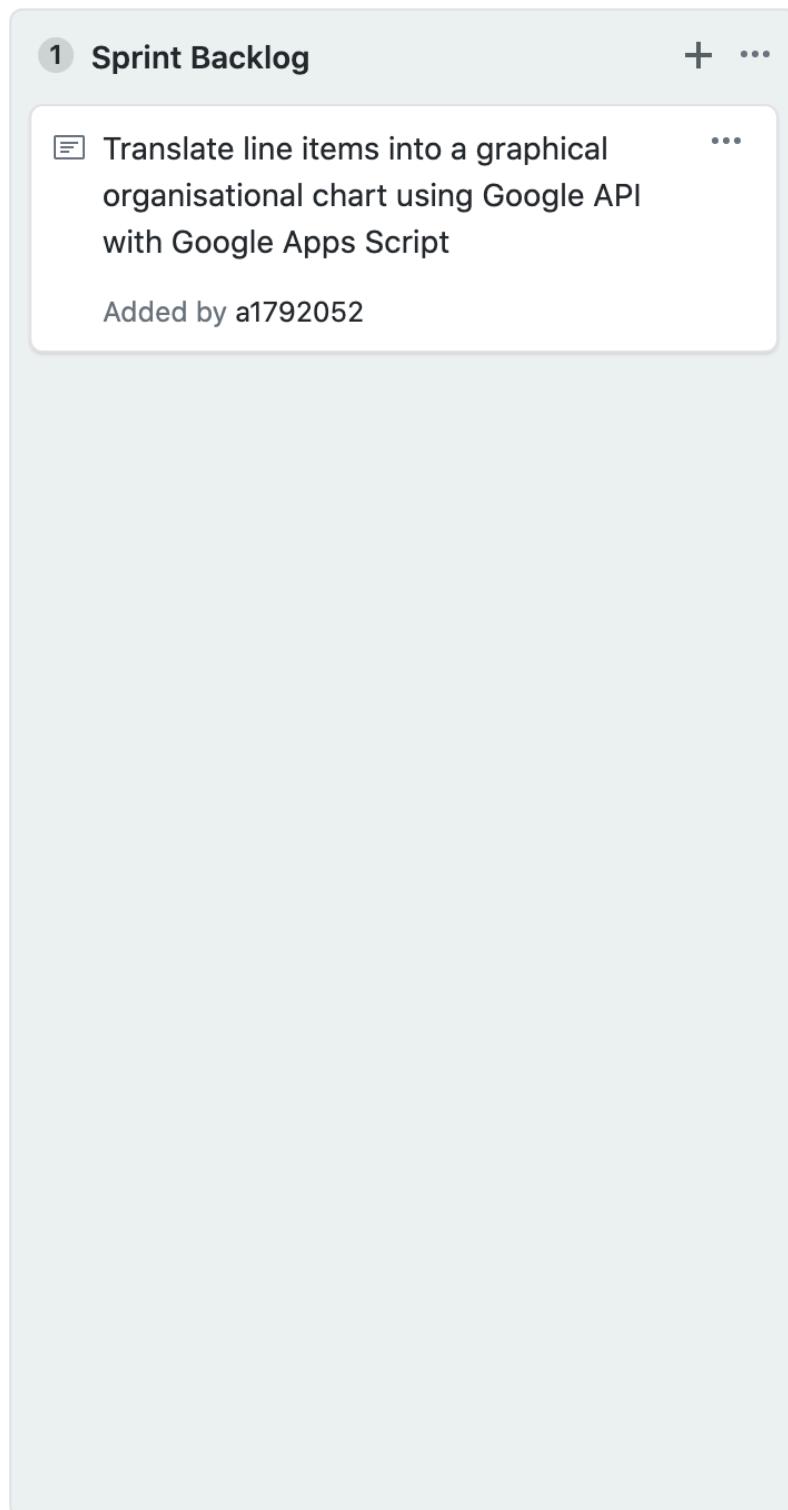
The birthday may be deleted.(1 point)

@Emily

Added by a1761810

Sprint Backlog and User Stories:

Sprint backlog:



Description of the user stories:

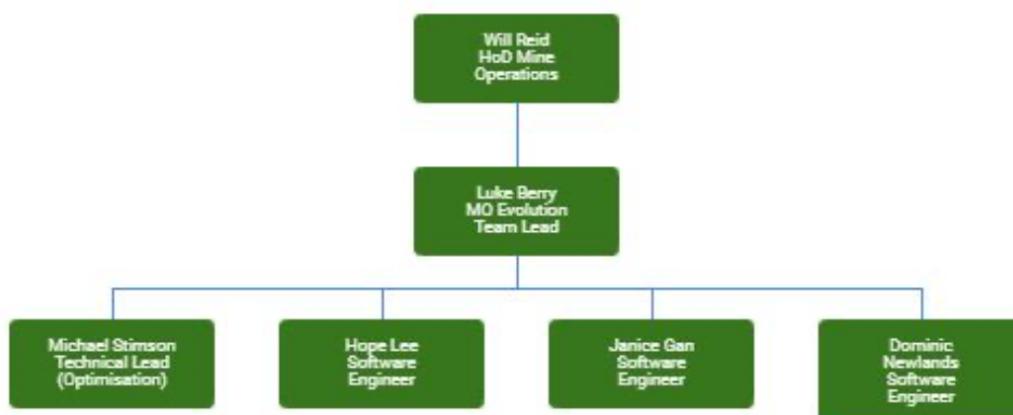
The user story in this snapshot is similar to the first snapshot. User want to translate spreadsheet content into a graphical organisational chart through our webpage. The organisation structure, departments, and other staff information should be shown in this chart. Users can know the people they work with through this chart.

Definition of Done

Line items can be translated into a graphical organisational chart. All the test information is based on the sample google spreadsheet.

MO Evolution	Luke Berry	MO Evolution Team Lead	Will Reid
	Michael Stimson	Technical Lead (Optimisation)	Luke Berry
	Hope Lee	Software Engineer	Luke Berry
	Janice Gan	Software Engineer	Luke Berry
	Dominic Newlands	Software Engineer	Luke Berry

- Complete Coding
- Peer reviewed
- Performance test is complete
 - Read line items (shown in the following figure) correctly.
 - Parse the staff information into correct attributes.
 - Show the graph correctly including the position, organization structure, staff information etc as follows.



- Technical documentation is complete
- The customer sign-off to confirm their requirement is satisfied.

Summary of Changes:

1. Setup work was completed. Team members finished the install work of developing tools of this project, which are Node.js and clasp.
2. The required functions have been finished. During this period, our group has finished reading data from a spreadsheet and translating the information in a spreadsheet into a graphical organisational chart. Additionally, we clarified the content of the chart including personnel's name, title, supervisor, email address and phone number.
3. The group atmosphere became more positive. During the period of developing the project, team members were increasingly familiar with each other. When we encountered problems, we discussed them with other team members. Additionally, when someone found useful resources, he/she would share it with others. Therefore, our work efficiency was improved significantly.
4. We have clarified the code standards especially for the comments standard. If a member wants to modify others' code, he/she has to communicate with that member and annotate the name of the original member and the edited member.

Software Engineering & Project

Snapshot Week 5 of Group SMU6

Staff Management Utility

Jin Yin (a1761810)

Jingyi Cui(a1787453)

Ka Yiu Eric Ma (a1792052)

Qi Long (a1763385)

Xinquan Jiang (a1753115)

Yingyao Lu (a1784870)

Ying Li (a1776903)

Yucheng Geng (a1756633)

Zihe Wang (a1684198)

Product Backlog and Task Board:

The product backlog:

4 Product Backlog

+

...

As a user, I want to translate line items into a graphical organisational chart so that I'm able to know the people I work with.

Added by a1792052

As a user, I want to search through the organizational chart to find the person who I am looking for.

Added by a1792052

As a user/manager/admin, I want to generate reports about the information available in the system.

Added by a1792052

As a user/Administrator/developer, I want to see updated documentation so that I know how the system operates.

Added by a1792052

The task board:

- To do:

The task board interface displays a list of four items under the 'To do' category. Each item is represented by a card with a title, description, and author information.

- Sprint 2 - Maintain and update Organisation Chart:**
Beautify the outlooking of Information window;
Pop up window to present detailed information from back end.
(1 points) @Qi Long
Added by a1684198
- Sprint2 - Optimise Organisation Chart:**
personnel relationship depend on ID instead of name.
(1 point) @Xinquan Jiang
Added by a1684198
- Sprint 2 - Maintain and update Organisation Chart:**
Optimize hover tooltip;
Display charts in different colours by teams or division;
(1 point) @Yucheng Geng
Added by a1684198
- Sprint 2 - Working on back end:**
Refactor code to distinguish basic and extra information;
Upload image to display;
Update the spreadsheet according to provided Maptek company structure;
(2 points) @Jingyi Cui @Ying Li
Added by a1684198

☒ Sprint 2 - Developing searching functions interface:
Developing JS function: receiving back end passing data and search the required staffs among the data.
(2 points) @Jin Yin @Eric

Added by a1684198

☒ Sprint 2 - Developing searching functions interface:
Setting out the html layout for searching interface.
(2 points) @Peter @Emily

Added by a1684198

- Doing:

1 Doing + ...

- The chart of the root could use an absolute position.(1 point) @Zihe Wang
Added by a1761810

- Done:

11 Done + ...

- Initial report and snapshot.
Added by a1761810
- Setup and document workflow for Google Apps Script development (2 points) @Eric Ma
Added by a1792052
- Create a sample spreadsheet according to the requirement descriptions Implement functions to read data from the sample spreadsheet (3 points) @Jin Yin @Yingyao Lu
Added by a1792052
- Fully testing the product to make sure all the functions in the required environments without any glitches (1 point) @Yucheng Geng
Added by a1761810
- The birthday may be deleted.(1 point) @Emily
Added by a1761810

- 11 Done + ...
- ❑ The second snapshot for Week 4 (1 point)
@Ying Li @Jingyi Cui
Added by a1787453
 - ❑ Editing the required documentations related to technical, user, maintenance in sprint one.
(2 points) @Ying Li @Jingyi Cui
Added by a1761810
 - ❑ Implement functions to display data into a graphical organizational chart
(5 points) @Zihe Wang @Qi Long
@Xinquan Jiang
Added by a1792052
 - ❑ Clients could get lost because they don't know how to operate the chart. So we can add a button such as a "+" meaning expand, and "-" meaning collapse. (2 points)
Added by a1761810
 - ➊ When a user clicks a block of the chart, There needs to be a new window or pops-up to show the details of this personnel (2 points)
@Zihe Wang @Eric Ma
#1 opened by a1792052
 - ❑ When a user hover on a block of the chart, There needs to be a new window or pops-up to show the details of this personnel (2 points) @Zihe Wang @Eric Ma
Added by a1792052

Sprint Backlog and User Stories:

Sprint backlog:

The screenshot shows a digital sprint backlog interface. At the top, it says "2 Sprint Backlog" with a plus sign and three dots for more options. Below this, there are two items in a list:

- As a user, I want to search through the organisational chart by first name, last name, department and location to find the person who I am looking for. ...
Added by a1792052
- Translate line items into a graphical organisational chart using Google API with Google Apps Script ...
Added by a1792052

Description of the user stories:

In this sprint, a new user story is added to the sprint backlog. The story is to implement searching functionality in our project. To be specific, given a user trying to search a staff's information, when he or she enters several searching keywords such as first name, last name, department or location, then the system shall display every relevant staff's information as a result output. There are 2 major tasks for this user story. The first task is to develop an interface that allows the user to enter different searching inputs including first name, last name, department and location, and display searching output. Another task is to develop a function that is able to receive the entering inputs from the interface, and search any relevant staff as an output result. This function should also be able to send the output to the interface.

Definition of Done

- Coding is done
 - Refactoring of code
 - Code style following coding standards
- Unit test passed
- Integrated test passed
- Performance test passed
 - User can enter searching keywords in 4 input boxes of different categories which are first name, last name, department and location
 - After search button clicked, the interface shall either display all relevant staff information or display no relevant results
- Peer reviewed
- The customer sign-off to confirm their requirement is satisfied.

Summary of Changes:

1. The basic functions of the first user story have been completed, and the demo has been presented to the client. The client has provided some feedback on it and will optimize the system based on the feedback provided.
2. The development of the second user story has started. After discussion with the client, the overview of the user story becomes clearer. Moreover, the group has developed a basic design for the new functionality.
3. After practising during the last sprint, group members became familiar with the development tools and languages, which leads to an improvement in the working efficiency of the project.
4. The initial report has been completed. Now all the group members have a basic understanding of the project including coding style, project management process and software architecture.
5. As most of the documentation has been completed, more members can take part in coding development this sprint, which

allows the group to implement more functionalities in these 2 weeks.

Software Engineering & Project

Snapshot Week 6 of Group SMU6

Staff Management Utility

Jin Yin (a1761810)

Jingyi Cui(a1787453)

Ka Yiu Eric Ma (a1792052)

Qi Long (a1763385)

Xinquan Jiang (a1753115)

Yingyao Lu (a1784870)

Ying Li (a1776903)

Yucheng Geng (a1756633)

Zihe Wang (a1684198)

Product Backlog and Task Board:

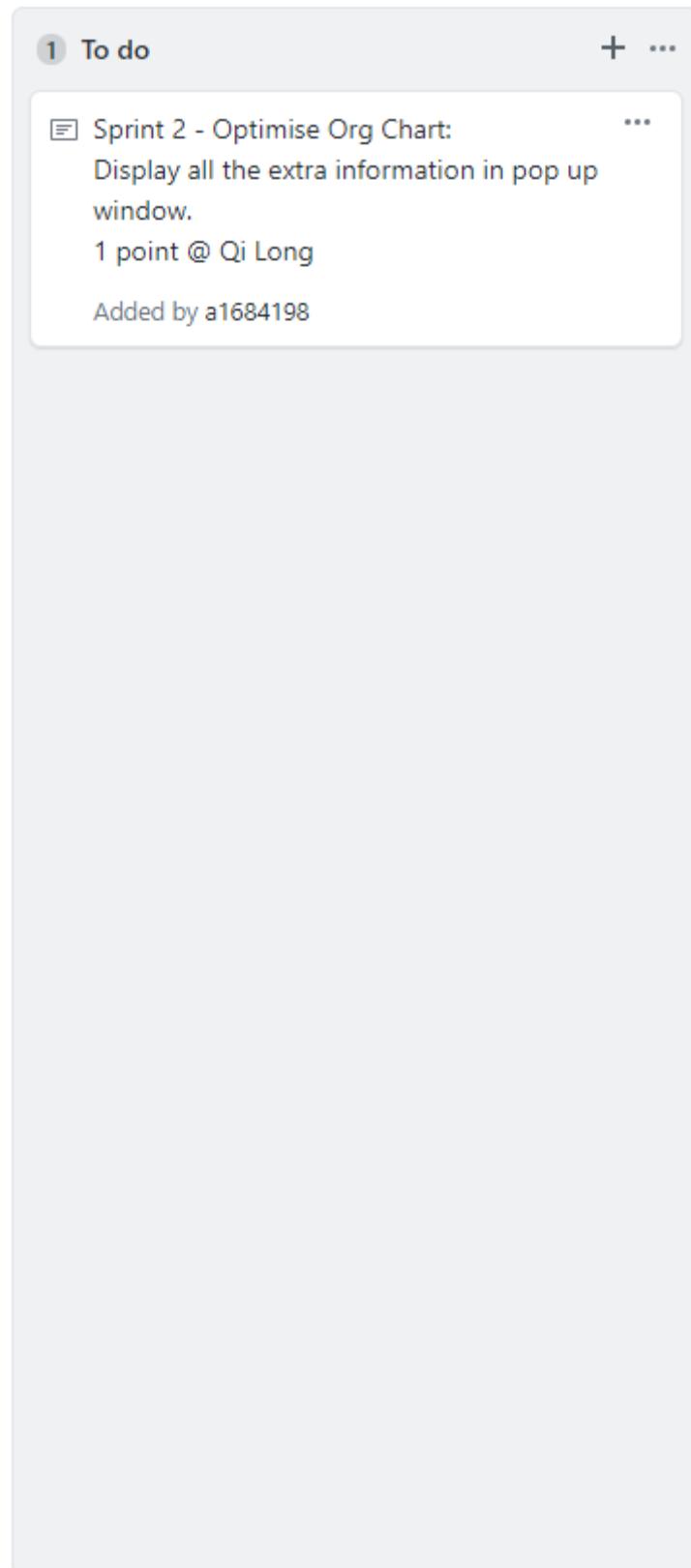
The product backlog:

4 Product Backlog + ...

- As a user, I want to translate line items into a graphical organisational chart so that I'm able to know the people I work with. ...
Added by a1792052
- As a user, I want to search through the organizational chart to find the person who I am looking for. ...
Added by a1792052
- As a user/manager/admin, I want to generate reports about the information available in the system. ...
Added by a1792052
- As a user/Administrator/developer, I want to see updated documentation so that I know how the system operates. ...
Added by a1792052

The task board:

- To do:



- Doing:

7 Doing + ...

- The chart of the root could use an absolute position.(1 point) @Zihe Wang

Added by [a1761810](#)
- Sprint 2 - Maintain and update Organisation Chart:
Beautify the outlook of Information window;
Pop up window to present detailed information from back end.
(1 points) @Qi Long

Added by [a1684198](#)
- Sprint2 - Optimise Organisation Chart: personnel relationship depend on ID instead of name.
(1 point) @Xinquan Jiang

Added by [a1684198](#)
- Sprint 2 - Maintain and update Organisation Chart:
Optimize hover tooltip;
Display charts in different colours by teams or division;
(1 point) @Yucheng Geng

Added by [a1684198](#)

☒ Sprint 2 - Working on back end: ...

Upload and display picture, and link the logo to the company website;
Refactor code to distinguish basic and extra information;
Update the spreadsheet according to provided Maptek company structure;
(2 points) @Jingyi Cui @Ying Li

Added by a1684198

☒ Sprint 2 - Developing searching functions interface: ...

Setting out the html layout for searching interface.
(2 points) @Peter @Emily

Added by a1684198

☒ Sprint 2 - Developing searching functions interface: ...

Developing JS function: receiving back end passing data and search the required staffs among the data.
(2 points) @Jin Yin @Eric

Added by a1684198

- Done:

12 Done + ...

- Unique ID for each staff and his/her manager applied, staff with potentially identical full names are now allowed to add to the google sheet. (1 point) @Xinquan Jiang
Added by a1753115
- Initial report and snapshot.
Added by a1761810
- Setup and document workflow for Google Apps Script development (2 points) @Eric Ma
Added by a1792052
- Create a sample spreadsheet according to the requirement descriptions Implement functions to read data from the sample spreadsheet (3 points) @Jin Yin @Yingyao Lu
Added by a1792052
- Fully testing the product to make sure all the functions in the required environments without any glitches (1 point) @Yucheng Geng
Added by a1761810
- The birthday may be deleted.(1 point) @Emily
Added by a1761810

☒ The second snapshot for Week 4 (1 point)

@Ying Li @Jingyi Cui

Added by a1787453

...

☒ Editing the required documentations

related to technical, user, maintenance in sprint one.

(2 points) @Ying Li @Jingyi Cui

Added by a1761810

...

☒ Implement functions to display data into

a graphical organizational chart

(5 points) @Zihe Wang @Qi Long

@Xinquan Jiang

Added by a1792052

...

☒ Clients could get lost because they don't

know how to operate the chart. So we can add a button such as a "+" meaning expand, and "-" meaning collapse. (2 points)

Added by a1761810

...

⚠ When a user clicks a block of the

chart, There needs to be a new window or pops-up to show the details of this personnel (2 points)

@Zihe Wang @Eric Ma

#1 opened by a1792052

...

☒ When a user hover on a block of the

chart, There needs to be a new window or pops-up to show the details of this personnel (2 points) @Zihe Wang @Eric Ma

Added by a1792052

...

Sprint Backlog and User Stories:

Sprint backlog:

The screenshot shows a digital sprint backlog interface. At the top left, it says "2 Sprint Backlog". On the right, there are "+" and "..." buttons. Below this, two user stories are listed in boxes:

- User Story 1:** As a user, I want to search through the organisational chart by first name, last name, department and location to find the person who I am looking for.
Added by a1792052
- User Story 2:** Translate line items into a graphical organisational chart using Google API with Google Apps Script
Added by a1792052

Description of the user stories:

In this sprint, a new user story is added to the sprint backlog. The story is to implement searching functionality in our project. To be specific, given a user trying to search a staff's information, when he or she enters several searching keywords such as first name, last name, department or location, then the system shall display every relevant staff's information as a result output. There are 2 major tasks for this user story. The first task is to develop an interface that allows the user to enter different searching inputs including first name, last name, department and location, and display searching output. Another task is to develop a function that is able to receive the entering inputs from the interface and search any relevant staff as an output result. This function should also be able to send the output to the interface.

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- Coding is done
 - Refactoring of code
 - Code style following coding standards
- Unit test passed
- Integrated test passed
- Performance test passed
 - User can enter searching keywords in 4 input boxes of different categories which are first name, last name, department and location
 - After search button clicked, the interface shall either display all relevant staff information or display no relevant results
- Peer reviewed
- The customer sign-off to confirm their requirement is satisfied.

Summary of Changes:

1. The basic functions of the second user story have been completed, and we are ready to present a demonstration to the client. A well-designed searching interface shall be presented.
2. As we increase the scale of the organization chart, it becomes too large and nearly unreadable. Although this issue has not been solved, we have come up with multiple possible solutions which shall be implemented in the following week and see which can achieve the best outcomes.
3. The style of the organization chart has been optimized. The new user interface is following the interface design we provided in the last client meeting.
4. We can now display images by passing external URL in our interfaces. But due to google safety policy, we can not display the images shared on google drive. To solve this issue, we might have to do more research.

5. All members take part in the development actively. Each member has been assigned with a development task and finished as scheduled. Moreover, those members who finished their own tasks before deadline are always willing to help others and try to work on additional functions.

Software Engineering & Project

Snapshot Week 7 of Group SMU6

Staff Management Utility

Jin Yin (a1761810)

Jingyi Cui(a1787453)

Ka Yiu Eric Ma (a1792052)

Qi Long (a1763385)

Xinquan Jiang (a1753115)

Yingyao Lu (a1784870)

Ying Li (a1776903)

Yucheng Geng (a1756633)

Zihe Wang (a1684198)

Product Backlog and Task Board:

The product backlog:

4 Product Backlog

- As a user, I want to translate line items into a graphical organisational chart so that I'm able to know the people I work with.
Added by a1792052
- As a user, I want to search through the organisational chart by first name, last name, department and location to find the person who I am looking for.
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- As a user/manager/admin, I want to generate reports about the information available in the system.
Added by a1792052
- As a user/Administrator/developer, I want to see updated documentation so that I know how the system operates.
Added by a1792052

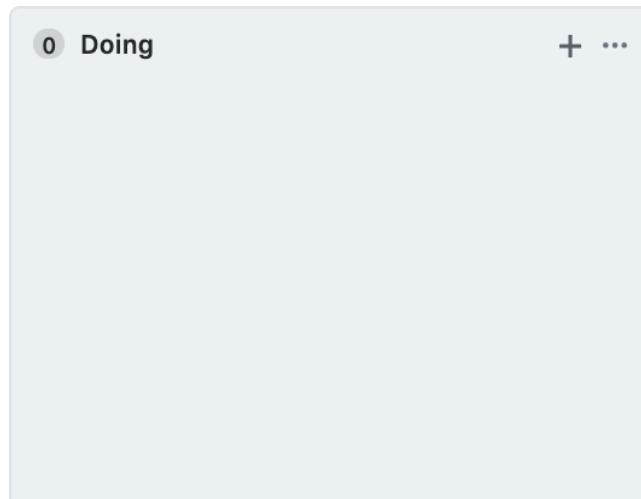
The task board:

- To do:

The task board displays a list of six tasks under the 'To do' category. Each task is represented by a card with a title, a detailed description, and the name of the person who added it.

- Sprint 3 - Generate report pdf (2 points) @Eric Ma**
Added by a1792052
- Sprint 3 invoke the functions to generate the required information from the database(2 points). @Jin Yin**
Added by a1761810
- Sprint 3 - Design generate report pages ... and show required information in the correct format, download PDF button (2 points) @Yingyao Lu**
Added by a1784870
- Sprint 3 add chart button in search page: when click the button, there should be a pop up window that presenting the org chart of the search results; (3 points) @Zihe Wang @Qi Long**
Added by a1684198
- Sprint 3 - Adding optional columns and present them on main page pop up window (3 points) @Yucheng Geng @Xinquan Jiang**
Added by a1756633
- Sprint 3 - Generate report text based on the report template. (4 points) @Jinyi Cui @Ying Li**
Added by a1761810

- Doing:



- Done:

21 Done + ...

- Sprint 2 - Developing searching functions interface: Developing JS function: receiving back end passing data and search the required staffs among the data. (2 points) @Jin Yin @Eric
Added by a1684198
- Sprint 2 - Maintain and update Organisation Chart: Optimize hover tooltip; Display charts in different colours by teams or division; (1 point) @Yucheng Geng
Added by a1684198
- Sprint2 - Optimise Organisation Chart: personnel relationship depend on ID instead of name. (1 point) @Xinquan Jiang
Added by a1684198

Sprint 2 - Maintain and update Organisation Chart:
 Beautify the outlook of Information window;
 Pop up window to present detailed information from back end.
(1 points) @Qi Long

Added by a1684198

Sprint 2 - Developing searching functions interface:
 Setting out the html layout for searching interface.
(2 points) @Peter @Emily

Added by a1684198

Sprint 2 - Optimise Org Chart:
 Display all the extra information in pop up window.
 1 point @ Qi Long

Added by a1684198

Sprint 2 - Optimise Org Chart: Add zoom in and zoom out feature for the display of org chart (1 point) @ Eric

Added by a1792052

Sprint 2 - Bug fixing: Fix the url linking of all existing buttons (1 point) @ Eric

Added by a1792052

Unique ID for each staff and his/her manager applied, staff with potentially identical full names are now allowed to add to the google sheet. (1 point) @Xinquan Jiang

Added by a1753115

☒ Sprint 2 - Working on back end: ...
Upload and display picture, and link the logo to the company website;
Refactor code to distinguish basic and extra information ;
Update the spreadsheet according to provided Maptek company structure;
(2 points) @Jingyi Cui @Ying Li

Added by a1684198

☒ Initial report and snapshot. ...

Added by a1761810

☒ Setup and document workflow for Google Apps Script development ...
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☒ Create a sample spreadsheet according ...
to the requirement descriptions
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the sample spreadsheet
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☒ Fully testing the product to make sure ...
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☒ The birthday may be deleted.(1 point) ...
@Emily

Added by a1761810

☒ The second snapshot for Week 4 (1 point)
@Ying Li @Jingyi Cui

Added by a1787453

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(2 points) @Ying Li @Jingyi Cui

Added by a1761810

Implement functions to display data into a graphical organizational chart
(5 points) @Zihe Wang @Qi Long
@Xinquan Jiang

Added by a1792052

Clients could get lost because they don't know how to operate the chart. So we can add a button such as a "+" meaning expand, and "-" meaning collapse. (2 points)

Added by a1761810

When a user clicks a block of the chart, There needs to be a new window or pops-up to show the details of this personnel (2 points)
@Zihe Wang @Eric Ma

#1 opened by a1792052

When a user hover on a block of the chart, There needs to be a new window or pops-up to show the details of this personnel (2 points) @Zihe Wang @Eric Ma

Added by a1792052

Sprint Backlog and User Stories:

Sprint backlog:

The screenshot shows a digital sprint backlog interface with a light gray header bar containing the text "3 Sprint Backlog" and a plus sign icon. Below the header are three separate story cards, each with a small icon, the story title, a "..." button, and an "Added by" field.

- Story 1:** Translate line items into a graphical organisational chart using Google API with Google Apps Script. Added by a1792052
- Story 2:** As a user, I want to search through the organisational chart by first name, last name, department and location to find the person who I am looking for. Added by a1792052
- Story 3:** Generate reports about the information available in the system and export the reports as PDF files. Added by a1792052

Description of the user stories:

In sprint 3, a new user story is added to the sprint backlog. The story is to generate reports about the available information on the system. In particular, the user wants to select and present different reports on the system according to the requirements provided. The user also wants to export reports as pdf files.

There are 4 tasks for this user story:

- Create functions at the backend to retrieve the required information from the spreadsheet
- Transform the format of data retrieved from the backend to the format for front-end rendering
- Design the layout of report page to present the required report information and the “Download PDF” button appropriately
- Generate PDF file when users click the “Download PDF” button

Definition of Done

- Coding is done
 - Refactoring of code
 - Code style following coding standards
- Unit test passed
- Integrated test passed
- Performance test passed
 - User can add or remove columns after the column “birthday” on the spreadsheet. The information of these columns, if present, should be presented on the pop-up window showing details of the selected staff on the page of organisation chart
 - On the search page, users can filter staff by job titles. This search field shall be called “Reports to”
 - On the search page, users can output an organization chart of filtered data
 - User can select and view reports according to the requirements provided
 - User can download any report as a PDF file
- Peer reviewed
- The customer sign-off to confirm their requirement is satisfied.

Summary of Changes:

1. Further optimising the page of organization chart:
 - Linked the company logo to the company website (<https://www.maptek.com/>)
 - Added zoom-in and zoom-out functionalities for the organization chart
 - Presented all information on the updated spreadsheet to the pop-up window showing details of the selected staff
 - Beatified the page
2. Bug fixing:
 - Fixed the problem of buttons. All buttons can now link to another page in the current app script project.

3. According to the user requirement, we added an extra column of data on the spreadsheet representing the hex colour of each component in the organization chart. We had also modified the organization chart to colour the chart components according to this column of data.
4. Before the changes, the options of department and location on the search page was hard-coded. We had added functions in the backend to return a list of department and location names from the spreadsheet. We had also modified the search page so now the options of department and location on the search page was retrieved from the spreadsheet.

Software Engineering & Project

Snapshot Week 8 of Group SMU6

Staff Management Utility

Jin Yin (a1761810)

Jingyi Cui(a1787453)

Ka Yiu Eric Ma (a1792052)

Qi Long (a1763385)

Xinquan Jiang (a1753115)

Yingyao Lu (a1784870)

Ying Li (a1776903)

Yucheng Geng (a1756633)

Zihe Wang (a1684198)

Product Backlog and Task Board:

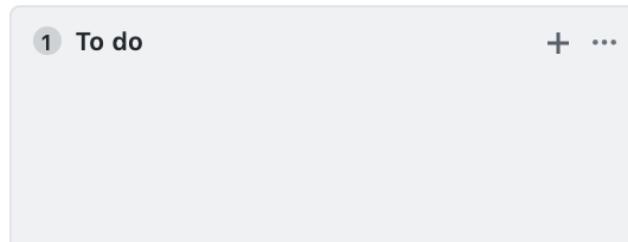
The product backlog:

4 Product Backlog + ...

- As a user, I want to translate line items into a graphical organisational chart so that I'm able to know the people I work with.
Added by a1792052
- As a user, I want to search through the organisational chart by first name, last name, department and location to find the person who I am looking for.
Added by a1792052
- As a user/manager/admin, I want to generate reports about the information available in the system.
Added by a1792052
- As a user/Administrator/developer, I want to see updated documentation so that I know how the system operates.
Added by a1792052

The task board:

- To do:



- Doing:

A screenshot of a task board interface. The top bar shows the number '4' and the text 'Doing'. Below the bar are five cards, each representing a task:

- Sprint 3 - Generate report pdf (2 points) @Eric Ma**
Added by a1792052
- Sprint 3 add chart button in search page:
when click the button, there should be
a pop up window that presenting the
org chart of the search results;
(3 points) @Zihe Wang @Qi Long**
Added by a1684198
- Sprint 3 invoke the functions to
generate the required information from
the database(2 points). @Jin Yin**
Added by a1761810
- Sprint 3 - Design generate report pages ...
and show required information in the
correct format, download PDF button (2
points) @Yingyao Lu**
Added by a1784870
- Sprint 3 - Generate report text based ...
on the report template.
(4 points) @Jinyi Cui @Ying Li**
Added by a1761810

- Done:

- 25 Done + ...
- Sprint 3 - Place the close button of pop up window to the right up corner (0.5 point) @Zihe Wang
Added by a1684198
 - Sprint 3 - Implemented "Reports to" searching criteria in search page (1 point) @ Eric Ma
Added by a1792052
 - Sprint 3 - Optimize back end data fetch function:
Instead of only fetching first 26 cols (A - Z), fetch all valid data (1 point) @Zihe Wang
Added by a1684198
 - Sprint 3 - Adding optional columns and present them on main page pop up window (3 points) @Yucheng Geng @Xinquan Jiang
Added by a1756633
 - Sprint 2 - Developing searching functions interface:
Developing JS function: receiving back end passing data and search the required staffs among the data. (2 points) @Jin Yin @Eric
Added by a1684198
 - Sprint 2 - Maintain and update Organisation Chart:
Optimize hover tooltip;
Display charts in different colours by teams or division; (1 point) @Yucheng Geng
Added by a1684198
 - Sprint2 - Optimise Organisation Chart: personnel relationship depend on ID instead of name. (1 point) @Xinquan Jiang
Added by a1684198

Sprint 2 - Maintain and update Organisation Chart:
 Beautify the outlook of Information window;
 Pop up window to present detailed information from back end.
(1 points) @Qi Long

Added by a1684198

Sprint 2 - Developing searching functions interface:
 Setting out the html layout for searching interface.
(2 points) @Peter @Emily

Added by a1684198

Sprint 2 - Optimise Org Chart:
 Display all the extra information in pop up window.
 1 point @ Qi Long

Added by a1684198

Sprint 2 - Optimise Org Chart: Add zoom in and zoom out feature for the display of org chart (1 point) @ Eric

Added by a1792052

Sprint 2 - Bug fixing: Fix the url linking of all existing buttons (1 point) @ Eric

Added by a1792052

Unique ID for each staff and his/her manager applied, staff with potentially identical full names are now allowed to add to the google sheet. (1 point) @Xinquan Jiang

Added by a1753115

☒ Sprint 2 - Working on back end: ...
Upload and display picture, and link the logo to the company website;
Refactor code to distinguish basic and extra information ;
Update the spreadsheet according to provided Maptek company structure;
(2 points) @Jingyi Cui @Ying Li

Added by a1684198

☒ Initial report and snapshot. ...

Added by a1761810

☒ Setup and document workflow for Google Apps Script development ...
(2 points) @Eric Ma

Added by a1792052

☒ Create a sample spreadsheet according ...
to the requirement descriptions
Implement functions to read data from
the sample spreadsheet
(3 points) @Jin Yin @Yingyao Lu

Added by a1792052

☒ Fully testing the product to make sure ...
all the functions in the required environments without any glitches
(1 point) @Yucheng Geng

Added by a1761810

☒ The birthday may be deleted.(1 point) ...
@Emily

Added by a1761810

☒ The second snapshot for Week 4 (1 point)
@Ying Li @Jingyi Cui

Added by a1787453

Editing the required documentations related to technical, user, maintenance in sprint one.
(2 points) @Ying Li @Jingyi Cui

Added by a1761810

Implement functions to display data into a graphical organizational chart
(5 points) @Zihe Wang @Qi Long
@Xinquan Jiang

Added by a1792052

Clients could get lost because they don't know how to operate the chart. So we can add a button such as a "+" meaning expand, and "-" meaning collapse. (2 points)

Added by a1761810

When a user clicks a block of the chart, There needs to be a new window or pops-up to show the details of this personnel (2 points)
@Zihe Wang @Eric Ma

#1 opened by a1792052

When a user hover on a block of the chart, There needs to be a new window or pops-up to show the details of this personnel (2 points) @Zihe Wang @Eric Ma

Added by a1792052

Sprint Backlog and User Stories:

Sprint backlog:

The screenshot shows a digital sprint backlog interface with a light gray header bar containing the text "3 Sprint Backlog" and a plus sign icon. Below the header are three separate story cards, each with a small icon, the story title, a "More options" button, and the "Added by" information.

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- Story 2:** As a user, I want to search through the organisational chart by first name, last name, department and location to find the person who I am looking for. Added by a1792052
- Story 3:** Generate reports about the information available in the system and export the reports as PDF files. Added by a1792052

Description of the user stories:

In sprint 3, a new user story is added to the sprint backlog. The story is to generate reports about the available information on the system. In particular, the user wants to select and present different reports on the system according to the requirements provided. The user also wants to export reports as pdf files.

There are 4 tasks for this user story:

- Create functions at the backend to retrieve the required information from the spreadsheet
- Transform the format of data retrieved from the backend to the format for front-end rendering
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- Generate PDF file when users click the “Download PDF” button

Definition of Done

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- Unit test passed
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 - User can add or remove columns after the column “birthday” on the spreadsheet. The information of these columns, if present, should be presented on the pop-up window showing details of the selected staff on the page of organisation chart
 - On the search page, users can filter staff by job titles. This search field shall be called “Reports to”
 - On the search page, users can output an organization chart of filtered data
 - User can select and view reports according to the requirements provided
 - User can download any report as a PDF file
- Peer reviewed
- The customer sign-off to confirm their requirement is satisfied.

Summary of Changes:

1. Modified the layout of chart.html:
 - The “Add New Staff” and “Generate Report” buttons are now visible without scrolling down the page.
 - The close button on the pop-up window is now positioned at the top-right hand corner
2. On chart.html, the pop-up window was modified to show information of a selected staff including optional columns after “birthday”. If a cell in an optional column is empty, it will not appear on the pop-up window for the corresponding selected staff.

3. Added the new search field called “Reports to”. After users choose a job title in “Reports to”, all the filtered staff reports to the supervisor with the selected job title.
4. Added a new button on search page called “chart”. After a user clicks this button, an organization chart for the filtered staff will be shown on a pop-up window.
5. Bug fixed: Now the system can filter staff by name with uppercase letter.

Software Engineering & Project

Snapshot Week 9 of Group SMU6

Staff Management Utility

Jin Yin (a1761810)

Jingyi Cui(a1787453)

Ka Yiu Eric Ma (a1792052)

Qi Long (a1763385)

Xinquan Jiang (a1753115)

Yingyao Lu (a1784870)

Ying Li (a1776903)

Yucheng Geng (a1756633)

Zihe Wang (a1684198)

Product Backlog and Task Board:

The product backlog:

4 Product Backlog + ...

- As a user, I want to translate line items into a graphical organisational chart so that I'm able to know the people I work with.
Added by a1792052
- As a user, I want to search through the organisational chart by first name, last name, department and location to find the person who I am looking for.
Added by a1792052
- As a user/manager/admin, I want to generate reports about the information available in the system.
Added by a1792052
- As a user/Administrator/developer, I want to see updated documentation so that I know how the system operates.
Added by a1792052

The task board:

- To do:

The task board interface displays three tasks under the 'To do' column:

- Sprint 4**
Review the final version of the user manual documentation and test according to the instructions.
(2 points)
@Yucheng Geng
Added by a1684198
- Sprint 4**
Edit the spreadsheet description of the administration documentation (Detailed illustrate how to edit the spreadsheet. For example: add, delete or change staff information).
(4 points)
@Jingyi Cui @Ying Li
Added by a1684198
- Sprint 4**
Edit the instruction of Installation section - installation + deployment on how to use our easy-to-use management platform.
(4 points)
@Qi Long @Zihe Wang
Added by a1684198

☒ Sprint 4

...

Reading parameters from the configuration file and making the management platform suitable for Maptek environment.

(2 points)

@Eric Ma

Added by a1684198

☒ Sprint 4

...

User manual - report page
Edit the instruction of report function in the user manual on how to generate, display and download reports.

(2 points)

@Yingyao Lu

Added by a1684198

☒ Sprint 4

...

User manual - search page
Edit the detailed description of search function in the user manual, and edit the instruction of generating the chart according to the search result.

(2 points)

@Jin Yin

Added by a1684198

☒ Sprint 4

...

User manual - main page
Edit the instruction of generating the
organisation chart in the user manual and
describe how to display the staff
information in the organisation chart.
(2 points)

@Xinquan Jiang

Added by a1684198

● Doing:

0 Doing

+ ...

- Done:

The screenshot shows a mobile application interface with a header '31 Done' and a plus sign for adding new items. Below the header is a list of five tasks, each in its own card:

- Sprint 3 - Design generate report pages** (2 points) @Yingyao Lu
Added by a1784870
- Sprint 3 - Generate report text based on the report template.** #4 opened by a1761810
- Sprint 3 invoke the functions to generate** (2 points). @Jin Yin
Added by a1761810
- Sprint 3 - Generate report text based on** (4 points) @Jingyi Cui @Ying Li
Added by a1787453
- Sprint 3 add chart button in search page:** (3 points) @Zihe Wang @Qi Long
Added by a1684198

☒ Sprint 3 - Generate report pdf (2 points) ...
@Eric Ma

Added by a1792052

☒ Sprint 3 - Place the close button of pop up window to the right up corner (0.5 point) @Zihe Wang

Added by a1684198

☒ Sprint 3 - Implemented "Reports to" searching criteria in search page (1 point)
@ Eric Ma

Added by a1792052

☒ Sprint 3 - Optimize back end data fetch function:
Instead of only fetching first 26 cols (A - Z), fetch all valid data
(1 point) @Zihe Wang

Added by a1684198

☒ Sprint 3 - Adding optional columns and present them on main page pop up window (3 points) @Yucheng Geng
@Xinquan Jiang

Added by a1756633

☒ Sprint 2 - Developing searching functions ...
interface:

Developing JS function: receiving back
end passing data and search the required
staffs among the data.

(2 points) @Jin Yin @Eric

Added by a1684198

☒ Sprint 2 - Maintain and update ...
Organisation Chart:

Optimize hover tooltip;
Display charts in different colours by
teams or division;

(1 point) @Yucheng Geng

Added by a1684198

☒ Sprint2 - Optimise Organisation Chart: ...
personnel relationship depend on ID

instead of name.

(1 point) @Xinquan Jiang

Added by a1684198

☒ Sprint 2 - Maintain and update ...
Organisation Chart:

Beautify the outlooking of Information
window;
Pop up window to present detailed
information from back end.

(1 points) @Qi Long

Added by a1684198

☒ Sprint 2 - Developing searching functions ...
interface:

Setting out the html layout for searching
interface.

(2 points) @Peter @Emily

Added by a1684198

☒ Sprint 2 - Optimise Org Chart: ...

Display all the extra information in pop up
window.

1 point @ Qi Long

Added by a1684198

☒ Sprint 2 - Optimise Org Chart: Add zoom ...
in and zoom out feature for the display of
org chart (1 point) @ Eric

Added by a1792052

☒ Sprint 2 - Bug fixing: Fix the url linking of ...
all existing buttons (1 point) @ Eric

Added by a1792052

☒ Unique ID for each staff and his/her ...
manager applied, staff with potentially
identical full names are now allowed to
add to the google sheet. (1 point)
@Xinquan Jiang

Added by a1753115

☒ Sprint 2 - Working on back end: ...

Upload and display picture, and link the logo to the company website;

Refactor code to distinguish basic and extra information;

Update the spreadsheet according to provided Maptek company structure;

(2 points) @Jingyi Cui @Ying Li

Added by a1684198

☒ Initial report and snapshot. ...

Added by a1761810

☒ Setup and document workflow for Google ...

Apps Script development

(2 points) @Eric Ma

Added by a1792052

☒ Create a sample spreadsheet according ...

to the requirement descriptions

Implement functions to read data from the sample spreadsheet

(3 points) @Jin Yin @Yingyao Lu

Added by a1792052

☒ Fully testing the product to make sure all ...
the functions in the required
environments without any glitches
(1 point) @Yucheng Geng

Added by a1761810

☒ The birthday may be deleted.(1 point) ...
@Emily

Added by a1761810

☒ The second snapshot for Week 4 (1 point) ...
@Ying Li @Jingyi Cui

Added by a1787453

☒ Editing the required documentations ...
related to technical, user, maintenance in
sprint one.
(2 points) @Ying Li @Jingyi Cui

Added by a1761810

☒ Implement functions to display data into a ...
graphical organizational chart
(5 points) @Zihe Wang @Qi Long
@Xinquan Jiang

Added by a1792052

☒ Clients could get lost because they don't ...
know how to operate the chart. So we
can add a button such as a "+" meaning
expand, and "-" meaning collapse. (2
points)

Added by a1761810

❗ **When a user clicks a block of the chart, There needs to be a new window or pops-up to show the details of this personnel (2 points) @Zihe Wang @Eric Ma** ...

#1 opened by a1792052

☒ When a user hover on a block of the chart, There needs to be a new window or pops-up to show the details of this personnel (2 points) @Zihe Wang @Eric Ma ...

Added by a1792052

Sprint Backlog and User Stories:

Sprint backlog:

The screenshot shows a digital sprint backlog interface with a light gray background. At the top left, it says "4 Sprint Backlog". To the right are a "+" button and a three-dot menu icon. Below this, there are four vertical rectangular boxes, each representing a user story. Each box has a small icon at the top left, followed by the story title and description, and ends with a three-dot menu icon at the top right. At the bottom of each box, it says "Added by a1792052" or "a1787453".

- Translate line items into a graphical organisational chart using Google API with Google Apps Script
- As a user, I want to search through the organisational chart by first name, last name, department and location to find the person who I am looking for.
- Generate reports about the information available in the system and export the reports as PDF files
- Write updated documentation so that the users and administrators know how the system operates.

Description of the user stories:

In sprint 4, a new user story is added to the sprint backlog. The story is to write updated documentation so that the users and Administrators can know how the system operates. Specifically speaking, we will prepare an administration documentation that contains all technical aspects of our system, such as configuration, deployment and update instructions, so that the administrators can make development/changes easier when updates are required. Additionally, we will provide a user manual to allow easy use of our system.

For a user, he or she can know how to use our in-document staff management system with our user manual. The user manual is basically divided into three parts:

- Main page

Edit the instruction of how to generate the organisation chart.

Describe how to denote the staff information.

- Search page

Edit the detailed description of how to use search functionality.

Edit the instruction of generating the chart and navigating through the organisational chart according to the search result.

- Report page

Edit the instruction of report function.

Describe how to generate, display and download detailed reports about individual business groups.

Definition of Done

- Coding is done
 - Refactoring of code
 - Code style following coding standards
- Documentation completed
 - User manual completed. Users can use our management system with our user manual. Users can easily use organisational chart functionality, search functionality and report functionality with the user manual.
 - Administration documentation completed. The administrators can know how to deploy our management system in Maptek environment. Administrators can update the system easily by following the instructions in the documentation.
- Integrated test passed
- System test passed
- Peer reviewed
- The customer sign-off to confirm their requirement is satisfied.

Summary of Changes:

1. Create Pivot tables

We calculated and recorded the required data using the pivot table in the spreadsheet. In the backend, we read the required data from the pivot table and transfer data to the front-end.

2. Generate and display the report

According to the user requirement, we designed the report page and implemented the report generation. The user can choose from different options, including buildings and departments. The generated report can show the required information in the correct format.

3. Download or print the report

Added a new button on the report page called “Print / Download as PDF”. After a user clicks this button, the user is given the option to print or download this report pdf file that generated in the current webpage.

4. Design and beauty the user interface of report page

In the report page, we added the company logo and “Maptek Staff Management Utility Report” on the top of the page, which is consistent with the main page and the search page design. Additionally, we adjusted the format of the “Report by department” and “Report by location”, which made the filters clear.

5. Added a new button on report page called “return”. When users click the button, it will return to the main page (organisation chart page).

6. Optimize the content of the employees’ detailed information. Now all optional information shall be displayed.

Software Engineering & Project

Snapshot Week 10 of Group SMU6

Staff Management Utility

Jin Yin (a1761810)

Jingyi Cui(a1787453)

Ka Yiu Eric Ma (a1792052)

Qi Long (a1763385)

Xinquan Jiang (a1753115)

Yingyao Lu (a1784870)

Ying Li (a1776903)

Yucheng Geng (a1756633)

Zihe Wang (a1684198)

Product Backlog and Task Board:

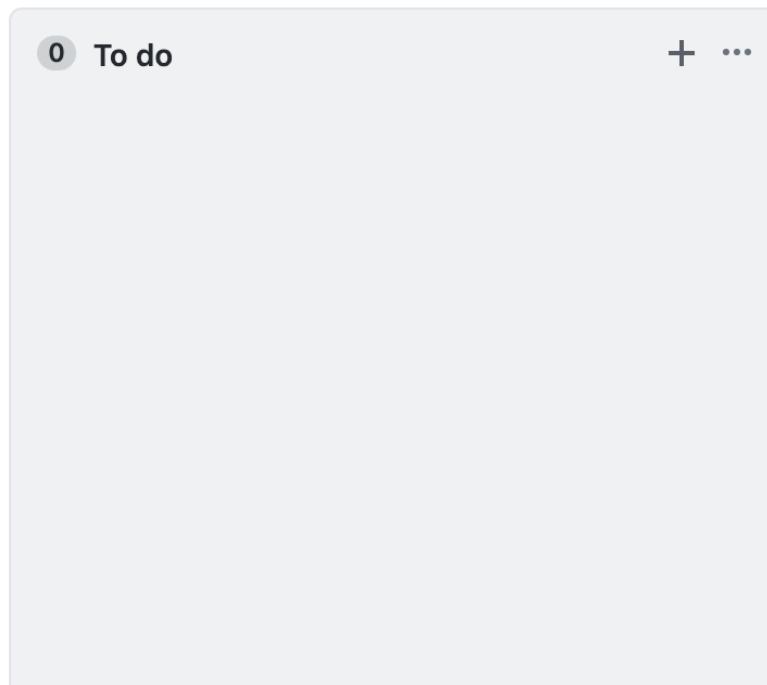
The product backlog:

4 Product Backlog + ...

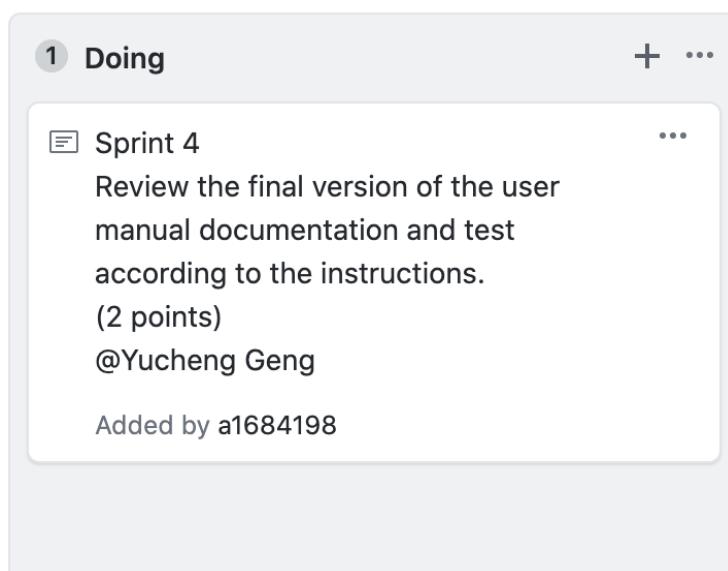
- As a user, I want to translate line items into a graphical organisational chart so that I'm able to know the people I work with.
Added by a1792052
- As a user, I want to search through the organisational chart by first name, last name, department and location to find the person who I am looking for.
Added by a1792052
- As a user/manager/admin, I want to generate reports about the information available in the system.
Added by a1792052
- As a user/Administrator/developer, I want to see updated documentation so that I know how the system operates.
Added by a1792052

The task board:

- To do:



- Doing:



- Done:

The image shows three cards from a digital workspace, likely a project management tool like Trello or Asana. Each card represents a task completed in Sprint 4.

- Sprint 4**
 - Edit the instruction of Installation section
 - installation + deployment on how to use our easy-to-use management platform.
 - (4 points)
- @Qi Long @Zihe Wang**
- Added by a1684198

- Sprint 4**
 - Reading parameters from the configuration file and making the management platform suitable for Maptek environment.
 - (2 points)
- @Eric Ma**
- Added by a1684198

- Sprint 4**
 - User manual - main page
 - Edit the instruction of generating the organisation chart in the user manual and describe how to display the staff information in the organisation chart.
 - (2 points)
- @Xinquan Jiang**
- Added by a1684198

☒ Sprint 4

...

User manual - report page

<https://1drv.ms/w/s!AqBPKcNbLILlhS2r6dBBmh4jmufu>

Edit the instruction of report function in the user manual on how to generate, display and download reports.

(2 points)

@Yingyao Lu

Added by a1684198

☒ Sprint 4

...

Edit the spreadsheet description of the administration documentation (Detailed illustrate how to edit the spreadsheet. For example: add, delete or change staff information).

(4 points)

@Jingyi Cui @Ying Li

Added by a1684198

☒ Sprint 4 ...

User manual - search page
Edit the detailed description of search function in the user manual, and edit the instruction of generating the chart according to the search result.

(2 points)

@Jin Yin

Added by a1684198

☒ Sprint 4 ...

Add a navigation bar and change open link method to self

(1 points) @Yingyao Lu

Added by a1784870

☒ Sprint 3 - Design generate report pages ...

and show required information in the correct format, download PDF button (2 points) @Yingyao Lu

Added by a1784870

 **Sprint 3 - Generate report text based on the report template.** ...

#4 opened by a1761810

 Sprint 3 invoke the functions to generate ...
the required information from the
database(2 points). @Jin Yin

Added by a1761810

 Sprint 3 - Generate report text based on
the report template.(4 points) @Jingyi
Cui @Ying Li

Added by a1787453

 Sprint 3 add chart button in search page: ...
when click the button, there should be a
pop up window that presenting the org
chart of the search results;
(3 points) @Zihe Wang @Qi Long

Added by a1684198

☒ Sprint 3 - Generate report pdf (2 points) ...
@Eric Ma

Added by a1792052

☒ Sprint 3 - Place the close button of pop up window to the right up corner (0.5 point) @Zihe Wang

Added by a1684198

☒ Sprint 3 - Implemented "Reports to" searching criteria in search page (1 point)
@ Eric Ma

Added by a1792052

☒ Sprint 3 - Optimize back end data fetch function:
Instead of only fetching first 26 cols (A - Z), fetch all valid data
(1 point) @Zihe Wang

Added by a1684198

☒ Sprint 3 - Adding optional columns and present them on main page pop up window (3 points) @Yucheng Geng
@Xinquan Jiang

Added by a1756633

☒ Sprint 2 - Developing searching functions ...
interface:

Developing JS function: receiving back
end passing data and search the required
staffs among the data.

(2 points) @Jin Yin @Eric

Added by a1684198

☒ Sprint 2 - Maintain and update ...
Organisation Chart:

Optimize hover tooltip;
Display charts in different colours by
teams or division;

(1 point) @Yucheng Geng

Added by a1684198

☒ Sprint2 - Optimise Organisation Chart: ...
personnel relationship depend on ID

instead of name.

(1 point) @Xinquan Jiang

Added by a1684198

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Beautify the outlooking of Information
window;
Pop up window to present detailed
information from back end.

(1 points) @Qi Long

Added by a1684198

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interface.

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Added by a1684198

☒ Sprint 2 - Optimise Org Chart: ...

Display all the extra information in pop up
window.

1 point @ Qi Long

Added by a1684198

☒ Sprint 2 - Optimise Org Chart: Add zoom ...
in and zoom out feature for the display of
org chart (1 point) @ Eric

Added by a1792052

☒ Sprint 2 - Bug fixing: Fix the url linking of ...
all existing buttons (1 point) @ Eric

Added by a1792052

☒ Unique ID for each staff and his/her ...
manager applied, staff with potentially
identical full names are now allowed to
add to the google sheet. (1 point)
@Xinquan Jiang

Added by a1753115

☒ Sprint 2 - Working on back end: ...

Upload and display picture, and link the logo to the company website;

Refactor code to distinguish basic and extra information;

Update the spreadsheet according to provided Maptek company structure;

(2 points) @Jingyi Cui @Ying Li

Added by a1684198

☒ Initial report and snapshot. ...

Added by a1761810

☒ Setup and document workflow for Google ...

Apps Script development

(2 points) @Eric Ma

Added by a1792052

☒ Create a sample spreadsheet according ...

to the requirement descriptions

Implement functions to read data from the sample spreadsheet

(3 points) @Jin Yin @Yingyao Lu

Added by a1792052

☒ Fully testing the product to make sure all ...
the functions in the required
environments without any glitches
(1 point) @Yucheng Geng

Added by a1761810

☒ The birthday may be deleted.(1 point) ...
@Emily

Added by a1761810

☒ The second snapshot for Week 4 (1 point) ...
@Ying Li @Jingyi Cui

Added by a1787453

☒ Editing the required documentations ...
related to technical, user, maintenance in
sprint one.
(2 points) @Ying Li @Jingyi Cui

Added by a1761810

☒ Implement functions to display data into a ...
graphical organizational chart
(5 points) @Zihe Wang @Qi Long
@Xinquan Jiang

Added by a1792052

☒ Clients could get lost because they don't ...
know how to operate the chart. So we
can add a button such as a "+" meaning
expand, and "-" meaning collapse. (2
points)

Added by a1761810

❗ **When a user clicks a block of the chart, There needs to be a new window or pops-up to show the details of this personnel (2 points) @Zihe Wang @Eric Ma** ...

#1 opened by a1792052

☒ When a user hover on a block of the chart, There needs to be a new window or pops-up to show the details of this personnel (2 points) @Zihe Wang @Eric Ma ...

Added by a1792052

Sprint Backlog and User Stories:

Sprint backlog:

The screenshot shows a digital sprint backlog interface with a light gray background. At the top left, it says "4 Sprint Backlog". To the right are a "+" button and a three-dot menu icon. Below this, there are four white rectangular cards, each representing a user story. Each card has a small icon at the top left, followed by the story title and description, and ends with a three-dot menu icon at the top right. Below the title/description is a line of text starting with "Added by".

- Translate line items into a graphical organisational chart using Google API with Google Apps Script
Added by a1792052
- As a user, I want to search through the organisational chart by first name, last name, department and location to find the person who I am looking for.
Added by a1792052
- Generate reports about the information available in the system and export the reports as PDF files
Added by a1792052
- Write updated documentation so that the users and administrators know how the system operates.
Added by a1787453

Description of the user stories:

In sprint 4, a new user story is added to the sprint backlog. The story is to write updated documentation so that the users and Administrators can know how the system operates. Specifically speaking, we will prepare an administration documentation that contains all technical aspects of our system, such as configuration, deployment and update instructions, so that the administrators can make development/changes easier when updates are required. Additionally, we will provide a user manual to allow easy use of our system.

For a user, he or she can know how to use our in-document staff management system with our user manual. The user manual is basically divided into three parts:

- Main page

Edit the instruction of how to generate the organisation chart.

Describe how to denote the staff information.

- Search page

Edit the detailed description of how to use search functionality.

Edit the instruction of generating the chart and navigating through the organisational chart according to the search result.

- Report page

Edit the instruction of report function.

Describe how to generate, display and download detailed reports about individual business groups.

Definition of Done

- Coding is done
 - Refactoring of code
 - Code style following coding standards
- Documentation completed
 - User manual completed. Users can use our management system with our user manual. Users can easily use organisational chart functionality, search functionality and report functionality with the user manual.
 - Administration documentation completed. The administrators can know how to deploy our management system in Maptek environment. Administrators can update the system easily by following the instructions in the documentation.
- Integrated test passed
- System test passed
- Peer reviewed
- The customer sign-off to confirm their requirement is satisfied.

Summary of Changes:

1. Complete set up manual – administration documentation

We wrote a set up manual that instructs the administrators to deploy our management system in Maptek environment. The set-up manual also instructs the administrators how to update our system easily.

2. Complete User manual

We wrote a user manual that instructs users to use our management system. Users can easily use organisational chart functionality, search functionality and report functionality with the user manual.

3. Added a navigation bar in the main page. Users can click the functionality buttons (Organizational Chart, Search Staff Information, and Generate Report) on the navigation bar and jump to the corresponding functionality page.

4. Changed the generate report function

Display the prompt on the screen if a user does not select any filter before generating reports. That is, if a user did not select any department, a prompt of “Error: Please select at least one department.” will be displayed. Similarly, if a user did not select any building, a prompt of “Error: Please select at least one location.” will be displayed.

Snapshot Week 11 of Group SMU6

Staff Management Utility

Jin Yin (a1761810)
Jingyi Cui (a1787453)
Ka Yiu Eric Ma (a1792052)
Qi Long (a1763385)
Xinquan Jiang (a1753115)
Yingyao Lu (a1784870)
Yucheng Geng (a1756633)
Ying Li (a1776903)
Zihe Wang (a1684198)

Product Backlog and Task Board:

The product backlog:

5 Product Backlog + ...

- As a user, I want to translate line items into a graphical organisational chart so that I'm able to know the people I work with. ...
Added by a1792052
- As a user, I want to search through the organisational chart by first name, last name, department and location to find the person who I am looking for. ...
Added by a1792052
- As a user/manager/admin, I want to generate reports about the information available in the system. ...
Added by a1792052
- As a user/Administrator/developer, I want to see updated documentation so that I know how the system operates. ...
Added by a1792052
- Delivering the final presentation to show me the progress of the project and the processes of creating the software. ...
Added by a1763385

The task board:

- To do

The task board displays a list of six tasks:

- To do** (6 items)
- prepare the slides for the future steps of ...
the project
@Yucheng Geng 1 point
Added by a1763385
- Final video presentation(part 1) and user ...
stories.
3 points
@Jlngyi Cui @Ying Li
Added by a1776903
- Video presentation recording
part 1 @ Xingquan Jiang
Part 2 @Zihe Wang
Part 3&4 @ Eric Ma
Added by a1763385
- Explain a typical user case and 5 user ...
stories
4 points
@Zihe Wang @Qi Long @Yin Jin
@Xingquan Jiang
Added by a1763385
- User and user stories(final report)
2 points
@Yingyao Lu
Added by a1776903
- Improve exporting report functionality
(3 points)
@Eric Ma
Added by a1792052

SMU 6

- Done

39 Done + ...

☰ Sprint 4 ...
Review the final version of the user manual documentation and test according to the instructions.
(2 points)
@Yucheng Geng
Added by a1684198

☰ Sprint 4 ...
Edit the instruction of Installation section - installation + deployment on how to use our easy-to-use management platform.
(4 points)
@Qi Long @Zihe Wang
Added by a1684198

☰ Sprint 4 ...
Reading parameters from the configuration file and making the management platform suitable for Maptek environment.
(2 points)
@Eric Ma
Added by a1684198

☒ Sprint 4 ...

User manual - main page

Edit the instruction of generating the organisation chart in the user manual and describe how to display the staff information in the organisation chart.

(2 points)

@Xinquan Jiang

Added by a1684198

☒ Sprint 4 ...

User manual - report page

<https://1drv.ms/w/s!AqBPKcNbLILhS2r6dBmh4jmufu>

Edit the instruction of report function in the user manual on how to generate, display and download reports.

(2 points)

@Yingyao Lu

Added by a1684198

☒ Sprint 4 ...

Edit the spreadsheet description of the administration documentation (Detailed illustrate how to edit the spreadsheet. For example: add, delete or change staff information).

(4 points)

@Jingyi Cui @Ying Li

Added by a1684198

- ☒ Sprint 4 ...
User manual - search page
Edit the detailed description of search
function in the user manual, and edit the
instruction of generating the chart
according to the search result.
(2 points)
@Jin Yin

Added by a1684198
- ☒ Sprint 4 ...
Add a navigation bar and change open
link method to self
(1 points) @Yingyao Lu

Added by a1784870
- ☒ Sprint 3 - Design generate report pages ...
and show required information in the
correct format, download PDF button (2
points) @Yingyao Lu

Added by a1784870
- ⌚ **Sprint 3 - Generate report text based
on the report template.** ...
#4 opened by a1761810
- ☒ Sprint 3 invoke the functions to ...
generate the required information from
the database(2 points). @Jin Yin

Added by a1761810

SMU 6

☒ Sprint 3 - Generate report text based on ***
the report template.(4 points) @Jingyi
Cui @Ying Li

Added by a1787453

☒ Sprint 3 add chart button in search ***
page:
when click the button, there should be a
pop up window that presenting the org
chart of the search results;
(3 points) @Zihe Wang @Qi Long

Added by a1684198

☒ Sprint 3 - Generate report pdf (2 points) ***
@Eric Ma

Added by a1792052

☒ Sprint 3 - Place the close button of pop ***
up window to the right up corner
(0.5 point) @Zihe Wang

Added by a1684198

☒ Sprint 3 - Implemented "Reports to" ***
searching criteria in search page (1
point) @ Eric Ma

Added by a1792052

SMU 6

☒ Sprint 3 - Optimize back end data fetch ...
function:
Instead of only fetching first 26 cols (A - Z), fetch all valid data
(1 point) @Zihe Wang

Added by a1684198

☒ Sprint 3 - Adding optional columns and ...
present them on main page pop up
window (3 points) @Yucheng Geng
@Xinquan Jiang

Added by a1756633

☒ Sprint 2 - Developing searching ...
functions interface:
Developing JS function: receiving back
end passing data and search the
required staffs among the data.
(2 points) @Jin Yin @Eric

Added by a1684198

☒ Sprint 2 - Maintain and update ...
Organisation Chart:
Optimize hover tooltip;
Display charts in different colours by
teams or division;
(1 point) @Yucheng Geng

Added by a1684198

☒ Sprint2 - Optimise Organisation Chart: ...
personnel relationship depend on ID
instead of name.
(1 point) @Xinquan Jiang

Added by a1684198

☒ Sprint 2 - Maintain and update
Organisation Chart: ...
Beautify the outlookng of Information
window;
Pop up window to present detailed
information from back end.
(1 points) @Qi Long

Added by a1684198

☒ Sprint 2 - Developing searching
functions interface: ...
Setting out the html layout for searching
interface.
(2 points) @Peter @Emily

Added by a1684198

☒ Sprint 2 - Optimise Org Chart: ...
Display all the extra information in pop
up window.
1 point @ Qi Long

Added by a1684198

SMU 6

- ☒ Sprint 2 - Optimise Org Chart: Add zoom in and zoom out feature for the display of org chart (1 point) @ Eric

Added by a1792052
- ☒ Sprint 2 - Bug fixing: Fix the url linking of all existing buttons (1 point) @ Eric

Added by a1792052
- ☒ Unique ID for each staff and his/her manager applied, staff with potentially identical full names are now allowed to add to the google sheet. (1 point) @Xinquan Jiang

Added by a1753115
- ☒ Sprint 2 - Working on back end: Upload and display picture, and link the logo to the company website; Refactor code to distinguish basic and extra information; Update the spreadsheet according to provided Maptek company structure; (2 points) @Jingyi Cui @Ying Li

Added by a1684198
- ☒ Initial report and snapshot.

Added by a1761810

SMU 6

- Setup and document workflow for Google Apps Script development (2 points) @Eric Ma

Added by a1792052
- Create a sample spreadsheet according to the requirement descriptions Implement functions to read data from the sample spreadsheet (3 points) @Jin Yin @Yingyao Lu

Added by a1792052
- Fully testing the product to make sure all the functions in the required environments without any glitches (1 point) @Yucheng Geng

Added by a1761810
- The birthday may be deleted.(1 point) @Emily

Added by a1761810
- The second snapshot for Week 4 (1 point) @Ying Li @Jingyi Cui

Added by a1787453

Editing the required documentations related to technical, user, maintenance in sprint one.
...
(2 points) @Ying Li @Jingyi Cui

Added by a1761810

Implement functions to display data into ... a graphical organizational chart
(5 points) @Zihe Wang @Qi Long
@Xinquan Jiang

Added by a1792052

Clients could get lost because they don't know how to operate the chart. So we can add a button such as a "+" meaning expand, and "-" meaning collapse. (2 points)
...

Added by a1761810

! When a user clicks a block of the chart, There needs to be a new window or pops-up to show the details of this personnel (2 points)
@Zihe Wang @Eric Ma
#1 opened by a1792052

When a user hover on a block of the chart, There needs to be a new window or pops-up to show the details of this personnel (2 points) @Zihe Wang @Eric Ma
...

Added by a1792052

Sprint Backlog and User Stories:

Sprint backlog:

The screenshot shows a digital sprint backlog interface with the following details:

- 5 Sprint Backlog**: The title of the backlog.
- + ...**: Buttons for adding new items or more options.
- User Story 1:** "Translate line items into a graphical organisational chart using Google API with Google Apps Script".
 - Added by a1792052
 - Three-dot menu icon
- User Story 2:** "Working on the search function to help users search through the organisational chart by first name, last name, department and location to find a certain person."
 - Added by a1792052
 - Three-dot menu icon
- User Story 3:** "Generate reports about the information available in the system and export the reports as PDF files"
 - Added by a1792052
 - Three-dot menu icon
- User Story 4:** "Write updated documentation so that the users and administrators know how the system operates."
 - Added by a1787453
 - Three-dot menu icon
- User Story 5:** "Preparing the final presentation to show the progress of the project and the processes of creating the software"
 - Added by a1763385
 - Three-dot menu icon

Description of the user stories:

In sprint 5, a new user story is added to the sprint backlog. In this sprint, The main task for SMU6 is to prepare a video presentation to show the progress of the project and a process presentation to illustrate the processes of creating the software. Functionality of the software, the target user, typical user case, five major user stories fundamental to the effectiveness of this software and future steps of the project will be contained in the video presentation. Sections including scrum, requirements, definition of done, tools, testing, progress analytics, documentation, Software Analytics as well as final reflection will be covered in the process presentation. Apart from that, individual final reports will also be delivered during the sprint.

Definition of Done

- Coding is done
 - Refactoring the code
 - Coding style following the coding standard
- Video presentation is completed
 - Functionality of the software
 - The target user
 - Typical user case
 - Five major user stories fundamental to the effectiveness of this software
 - Future steps of the project
- Process presentation is complete
 - Sections including scrum requirements, definition of done, tools, testing, progress analytics, documentation, software analytics and final reflection are contained
 - Relevant questions are addressed
- Peer reviewed
- The customer sign-off to confirm their requirement is satisfied.

Summary of Changes:

1. Finalize the set up manual (administration documentation)

Illustrate the process of deploying and updating configurations of the staff management utility in details.

2. Complete the user manual

A user manual contains all essential information for the user to make full use of the management system. This manual includes a descriptions of the system functions and capabilities and operation. In addition, step-by-step procedures for the system access and use are also covered by using graphics where possible in this manual.

3. Integrate the set up manual and user manual into system

Complete set up manual and user manual can be access in the Amptek staff management utility to allow users to operate the system and look up the usage of it in a more convenient way.

Snapshot Week 12 of Group SMU6

Staff Management Utility

Jin Yin (a1761810)
Jingyi Cui (a1787453)
Ka Yiu Eric Ma (a1792052)
Qi Long (a1763385)
Xinquan Jiang (a1753115)
Yingyao Lu (a1784870)
Yucheng Geng (a1756633)
Ying Li (a1776903)
Zihe Wang (a1684198)

Product Backlog and Task Board:

The product backlog:

5 Product Backlog + ...

- As a user, I want to translate line items into a graphical organisational chart so that I'm able to know the people I work with. ...
Added by a1792052
- As a user, I want to search through the organisational chart by first name, last name, department and location to find the person who I am looking for. ...
Added by a1792052
- As a user/manager/admin, I want to generate reports about the information available in the system. ...
Added by a1792052
- As a user/Administrator/developer, I want to see updated documentation so that I know how the system operates. ...
Added by a1792052
- Delivering the final presentation to show me the progress of the project and the processes of creating the software. ...
Added by a1763385

The task board:

- Doing

6 Doing

- Video presentation recording**
part 1 @ Xingquan Jiang
Part 2 @Zihe Wang
Part 3&4 @ Eric Ma
Added by a1763385
- Explain a typical user case and 5 user stories**
4 points
@Zihe Wang @Qi Long @Yin Jin
@Xingquan Jiang
Added by a1763385
- Improve exporting report functionality**
(3 points)
@Eric Ma
Added by a1792052
- prepare the slides for the future steps of the project**
@Yucheng Geng 1 point
Added by a1763385
- User and user stories(final report)**
2 points
@Yingyao Lu
Added by a1776903

SMU 6

Final video presentation(part 1) and user stories.
3 points
@JIngyi Cui @Ying Li

Added by a1776903

- Done

39 Done + ...

Sprint 4
Review the final version of the user manual documentation and test according to the instructions.
(2 points)
@Yucheng Geng

Added by a1684198

Sprint 4
Edit the instruction of Installation section - installation + deployment on how to use our easy-to-use management platform.
(4 points)
@Qi Long @Zihe Wang

Added by a1684198

Sprint 4
Reading parameters from the configuration file and making the management platform suitable for Maptek environment.
(2 points)
@Eric Ma

Added by a1684198

- ☒ Sprint 4 ...

User manual - main page
Edit the instruction of generating the organisation chart in the user manual and describe how to display the staff information in the organisation chart.
(2 points)

@Xinquan Jiang

Added by a1684198
- ☒ Sprint 4 ...

User manual - report page
<https://1drv.ms/w/s!AqBPKcNbLILhS2r6dBmh4jmufu>
Edit the instruction of report function in the user manual on how to generate, display and download reports.
(2 points)

@Yingyao Lu

Added by a1684198
- ☒ Sprint 4 ...

Edit the spreadsheet description of the administration documentation (Detailed illustrate how to edit the spreadsheet. For example: add, delete or change staff information).
(4 points)

@Jingyi Cui @Ying Li

Added by a1684198

☒ Sprint 4 ...

User manual - search page
Edit the detailed description of search function in the user manual, and edit the instruction of generating the chart according to the search result.
(2 points)
@Jin Yin

Added by a1684198

☒ Sprint 4 ...

Add a navigation bar and change open link method to self
(1 points) @Yingyao Lu

Added by a1784870

☒ Sprint 3 - Design generate report pages ...
and show required information in the correct format, download PDF button (2 points) @Yingyao Lu

Added by a1784870

⌚ Sprint 3 - Generate report text based on the report template. ...
#4 opened by a1761810

☒ Sprint 3 invoke the functions to ...
generate the required information from the database(2 points). @Jin Yin

Added by a1761810

☒ Sprint 3 - Generate report text based on ...
the report template.(4 points) @Jingyi
Cui @Ying Li

Added by a1787453

☒ Sprint 3 add chart button in search ...
page:
when click the button, there should be a
pop up window that presenting the org
chart of the search results;
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Added by a1684198

☒ Sprint 3 - Generate report pdf (2 points) ...
@Eric Ma

Added by a1792052

☒ Sprint 3 - Place the close button of pop ...
up window to the right up corner
(0.5 point) @Zihe Wang

Added by a1684198

☒ Sprint 3 - Implemented "Reports to" ...
searching criteria in search page (1
point) @ Eric Ma

Added by a1792052

SMU 6

☒ Sprint 3 - Optimize back end data fetch ...
function:
Instead of only fetching first 26 cols (A - Z), fetch all valid data
(1 point) @Zihe Wang

Added by a1684198

☒ Sprint 3 - Adding optional columns and ...
present them on main page pop up
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Developing JS function: receiving back
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required staffs among the data.
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Added by a1684198

☒ Sprint 2 - Maintain and update ...
Organisation Chart:
Optimize hover tooltip;
Display charts in different colours by
teams or division;
(1 point) @Yucheng Geng

Added by a1684198

☒ Sprint2 - Optimise Organisation Chart: ...
personnel relationship depend on ID
instead of name.
(1 point) @Xinquan Jiang

Added by a1684198

☒ Sprint 2 - Maintain and update
Organisation Chart: ...
Beautify the outlookng of Information
window;
Pop up window to present detailed
information from back end.
(1 points) @Qi Long

Added by a1684198

☒ Sprint 2 - Developing searching
functions interface: ...
Setting out the html layout for searching
interface.
(2 points) @Peter @Emily

Added by a1684198

☒ Sprint 2 - Optimise Org Chart: ...
Display all the extra information in pop
up window.
1 point @ Qi Long

Added by a1684198

SMU 6

- ☒ Sprint 2 - Optimise Org Chart: Add zoom in and zoom out feature for the display of org chart (1 point) @ Eric

Added by a1792052
- ☒ Sprint 2 - Bug fixing: Fix the url linking of all existing buttons (1 point) @ Eric

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Added by a1753115
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Added by a1684198
- ☒ Initial report and snapshot.

Added by a1761810

SMU 6

- Setup and document workflow for Google Apps Script development (2 points) @Eric Ma

Added by a1792052
- Create a sample spreadsheet according to the requirement descriptions Implement functions to read data from the sample spreadsheet (3 points) @Jin Yin @Yingyao Lu

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Added by a1761810
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Added by a1761810
- The second snapshot for Week 4 (1 point) @Ying Li @Jingyi Cui

Added by a1787453

Editing the required documentations related to technical, user, maintenance in sprint one.
(2 points) @Ying Li @Jingyi Cui

Added by a1761810

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(5 points) @Zihe Wang @Qi Long
@Xinquan Jiang

Added by a1792052

Clients could get lost because they don't know how to operate the chart. So we can add a button such as a "+" meaning expand, and "-" meaning collapse. (2 points)

Added by a1761810

When a user clicks a block of the chart, There needs to be a new window or pops-up to show the details of this personnel (2 points)
@Zihe Wang @Eric Ma

#1 opened by a1792052

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Added by a1792052

Sprint Backlog and User Stories:

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The screenshot shows a digital sprint backlog interface with the following details:

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 - Three-dot menu icon
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 - Three-dot menu icon
- User Story 4:** "Write updated documentation so that the users and administrators know how the system operates."
 - Added by a1787453
 - Three-dot menu icon
- User Story 5:** "Preparing the final presentation to show the progress of the project and the processes of creating the software"
 - Added by a1763385
 - Three-dot menu icon

Description of the user stories:

In sprint 5, a new user story is added to the sprint backlog. In this sprint, The main task for SMU6 is to prepare a video presentation to show the progress of the project and a process presentation to illustrate the processes of creating the software. Functionality of the software, the target user, typical user case, five major user stories fundamental to the effectiveness of this software and future steps of the project will be contained in the video presentation. Sections including scrum, requirements, definition of done, tools, testing, progress analytics, documentation, Software Analytics as well as final reflection will be covered in the process presentation. Apart from that, individual final reports will also be delivered during the sprint.

Definition of Done

- Coding is done
 - Refactoring the code
 - Coding style following the coding standard
- Video presentation is completed
 - Functionality of the software
 - The target user
 - Typical user case
 - Five major user stories fundamental to the effectiveness of this software
 - Future steps of the project
- Process presentation is complete
 - Sections including scrum requirements, definition of done, tools, testing, progress analytics, documentation, software analytics and final reflection are contained
 - Relevant questions are addressed
- Peer reviewed
- The customer sign-off to confirm their requirement is satisfied.

Summary of Changes:

1. PowerPoint slides of video presentation are completed

It will demonstrate what group SUM6 have completed over the course of this project, including the functionality of the staff management utility, target users of it, typical user case, five major user stories fundamental to the effectiveness of this software as well as the future step of the project.

2. PowerPoint slides of process presentation will be finalized

The slides will illustrate sections including scrum requirements, definition of done, tools, testing, progress analytics, documentation, software analytics and final reflection. In addition, questions related to the process of developing the software will also be addressed.