

Progress Report

Project Details

Team name	Team Knuth
Reporting period	08/02/19 – 13/05/19
Report compiled by	Ryan Pickering
Deadline	13/05/19

Activities and Outputs

Skills Audit

Status	Completed
Activity Owner	All Team Members
Objective	The group should each create their own skills audit, identifying which qualities they are confident in and which qualities they would like to improve.
Activity dates	Planned: 04 – 22 February 2019 Actual: 04 – 21 February 2019
Progress	The activity has been initiated, with the group agreeing on the group aspects for the skills audit. Each team member now has their own skills audit to complete and it should be completed by the next team meeting.
Outputs created	The team each completed their own skills audit and submitted it to the project leader to submit on behalf of the other team members.

Project Proposal

Status	Completed
Activity Owner	Ryan Pickering
Objective	Create a project proposal that will outline what the product will do and how it will meet the specification. Also include a final version of who has been assigned each mission.
Activity dates	Planned: 04 – 22 February 2019 Actual: 04 – 21 February 2019
Progress	The team has begun to think about who will be best suited to completing each individual mission. Each group member is also currently completing their skills audit, so this will help assist with who should be allocated each mission.
Outputs created	The team concluded who will complete each mission, and which missions will be completed as a group. The project leader completed the project proposal and submitted it along with the skills audits.

Code of Conduct

Status	Completed
Activity Owner	Ryan Pickering
Objective	To create a code of conduct that accurately and professionally sets rules that should be followed while completing the project
Activity dates	Planned: 11 th February – 3 rd March Actual: 11 th February – 31 st March
Progress	A basic list of conduct has been created. The list needs to be formatted and all group members need to agree and sign to the code of conduct.
Outputs created	A formatted code of conduct has been created and signed by all group members.

Risk Analysis

Status	Completed
Activity Owner	Ryan Pickering
Objective	Generate a risk assessment that accurately depicts all of the risks associated with the project.
Activity dates	Planned: 11 th February – 3 rd March Actual: 11 th February – 31 st March
Progress	A template has been created, with displays risk events, the likelihood of those risks occurring, the impact of the risk and the risk value. The assessment also shows how to manage the risk, along with who the risk owners will be. The risk assessment needs to display what to do if the actual risk happened and what could be done to minimise the impacts.
Outputs created	A detailed and accurate risk assessment was created, that has been signed by all group members.

Quality Manual

Status	Completed
Activity Owner	Ryan Pickering
Objective	Create a list of qualities that all team members must abide by when completing work for the project.
Activity dates	Planned: 11 th February – 3 rd March Actual: 11 th February – 31 st March
Progress	A template for the quality manual has been created, with a brief outline of basic qualities for the assignment. The quality manual needs to be formatted to a higher standard.
Outputs created	An agreed quality manual has been created that has been contributed to by all members of the team. This has now been signed by all team members.

Gantt Chart

Status	Completed
Activity Owner	Ryan Pickering
Objective	Create and update a Gantt chart that will visually display each task. Each team member will have access to the Gantt chart to see which tasks are being completed by who, and when they are scheduled to be completed by. The Gantt chart will be regularly updated and adjusted for each change in schedule.
Activity dates	Planned: 04 February – 19 th May 2019 Actual: 04 February – 19 th May 2019
Progress	Gantt Chart Version 1 has been created. Gantt Chart Version 2 has been created. Gantt Chart Version 2 has been modified. Gantt Chart Version 3 has been created.
Outputs created	Gantt charts for each stage of the program has been created.

System Purpose Statement

Status	Completed
Activity Owner	Ethan Roe
Objective	Create a statement that outlines the purpose of the system.
Activity dates	Planned: 11 th February – 3 rd March Actual: 11 th February – 08 th March
Progress	Ethan has begun to draft the system statement. A final version has now been created.
Outputs created	Ethan Roe has created a system purpose statement that outlines the purpose of the system and what it does.

UML Use Case Diagram

Status	Completed
Activity Owner	Ethan Roe
Objective	Create a use case diagram of how a user may interact with the program.
Activity dates	Planned: 11 th February – 3 rd March Actual: 11 th February – 31 st March
Progress	A set of different use cases have been drafted out. Diagrams have been created for each use case description.
Outputs created	A successful and accurate use case diagram has been created for each use case.

Use Case Descriptions

Status	Completed
Activity Owner	Ethan Roe
Objective	To create use case descriptions for each individual use case for the program.
Activity dates	Planned: 11 February – 3 rd March Actual: 11 February – 31 st March
Progress	Identified use cases Created table template with the relative titles Identified actors in primary scenarios
Outputs created	A Use case descriptions have been generated for each use case.

Class Diagram

Status	Complete
Activity Owner	Matthew Pritchard
Objective	Create a class diagram including each class' methods and variables for the project.
Activity dates	Planned: 11 th February – 3 rd March Actual: 11 th February - Present
Progress	Initially, the class diagram was to be completed by the 3 rd of march. However, after analysing the situation, it was decided that the class diagram would have multiple versions. The initial class diagram would have the base line for the whole system, while new revisions would be created as the project is created.
Outputs created	A final class diagram has been created, including all methods and variables for each class in the project.

State Machine Diagram

Status	Complete
Activity Owner	Matthew Pritchard
Objective	Create 2 state machine diagrams for the application
Activity dates	Planned: 10 – 25 March 2014 and 10-25 September 2014 Actual: 15 – 30 April 2014 and 10-25 September 2014
Progress	Created state machine diagram for returning a motor Created state machine diagram for logging into the program
Outputs created	2 state machine diagrams have been created that display how the system works in an interesting state.

Sequence Diagram

Status	Complete
Activity Owner	Matthew Pritchard
Objective	Create system diagrams to display the dynamic behaviour of the program
Activity dates	Planned: 11 th February 2019 – 3 rd March 2019 Actual: 11 th February 2019 – 17 th March 2019
Progress	<p>This activity has now started after a slight delay.</p> <p>The sequence diagram for alerting users has been created.</p> <p>The sequence diagram for changing job and task status has been started</p> <p>The sequence diagram for using the job controller has been created</p> <p>The sequence diagram for task allocation has been completed.</p> <p>The sequence diagram for filtering tasks has been completed.</p> <p>The sequence diagram for logging in has been started.</p> <p>The sequence diagram for logging in has been finished.</p> <p>The sequence diagram for user account controller has been completed.</p>
Outputs created	Sequence diagrams have been created to show the behaviour of the system in the cases of creating and modifying a job, changing a job and task status, logging in, filtering tasks and alerting users.

Database Creation

Status	Completed
Activity Owner	All team members
Objective	Create a database with the relevant tables that can be used universally for each requirement of the project
Activity dates	Planned: 11 th February 2019 – 3 rd March 2019 Actual: 11 th February 2019 – 10 th March 2019
Progress	<p>An initial database has been created.</p> <p>The database provider has been changed to remotemysql.com</p> <p>Jobs, tasks, user accounts and user types tables have been created.</p> <p>Tables have been created for the statistics component.</p> <p>Unused tables have been removed.</p> <p>Sample data has been entered</p> <p>A ERD has been created.</p>
Outputs created	A database has been created that stores data for all of the required features of the application. This database allows the user to store features such as tasks and jobs, while also recording different statistics for the jobs. An ERD has also been created to show the structure of the database.

Gui Design

Status	Complete
Activity Owner	All Team Members
Objective	Create template designs for each interface.
Activity dates	Planned: : 11 th February 2019 – 17 th February 2019 Actual: 11 th February 2019 – 17 th February 2019
Progress	Ryan Pickering has made a first version template for the job card interface. Ethan roe has made a first version template for the job delay component.
Outputs created	Initial version GUI designs have been created for the job card and the job delay interfaces.

Job Progress Component

Status	Complete
Activity Owner	Ryan Pickering
Objective	Create an interface that will allow a user to be able to view and edit details of a job.
Activity dates	Planned: 4 th March – 31 st March Actual: 18 th March – 6 th May
Progress	<p>A wireframe has been created for a basic template of what the job progress component should look like.</p> <p>This template has now been created using a GUI creator (Scenebuilder).</p> <p>SQL queries have been created to allow the user to save and update jobs from the database.</p> <p>The program now successfully loads jobs, saves jobs and creates new jobs.</p> <p>ISSUE: Saving a job creates a new job rather than overwriting the existing job</p> <p>Existing jobs are now updated if a job with the same job number exists</p> <p>Tasks have been added to the jobs.</p> <p>ISSUE: Cannot load more than 1 task into the interface</p> <p>Tasks now load successfully corresponding to the job number</p> <p>The job cards values can now be exported into a text document</p>
Outputs created	A presentable and ergonomic interface has been created. This interface allows the user to search for a job, update the job, create a new job and view all of the relevant details, while being able to output job details to a text file.

Task Allocation Component

Status	Complete
Activity Owner	Matthew Pritchard
Objective	Create an interface that will allow the user to allocate tasks to specific technicians.
Activity dates	Planned: 4 th March 2019 – 31 st March 2019 Actual: 18 th March 2019 – 12 th May 2019
Progress	An initial interface has been created Tasks can be filtered Tasks display overdue tasks Tasks display task urgency
Outputs created	An ergonomic interface has been created that allows the user to allocate tasks and view which tasks are allocated to each user. Tasks can be filtered based on preference.

User Account Component

Status	Complete
Activity Owner	Matthew Randle
Objective	Create a system that will allow a user to login and allow new users to be created. Users should be able to be edited and logged in users should only see data relevant to them.
Activity dates	Planned: 4 th March 2019 – 31 st March 2019 Actual: 18 th March 2019 – 6 th May 2019
Progress	A system has been created for a user to login Different user accounts have been created based on user type HR users can now create and modify user accounts Users can logout Users cannot login if the password is invalid or if the user does not exist
Outputs created	A secure and useable system has been created that allows a user to login. This system provides the relevant information if a user enters incorrect information.

Job Delay Component

Status	Complete
Activity Owner	Ethan Roe
Objective	Create a system that allows the user to delay a job.
Activity dates	Planned: 4 th March 2019 – 31 st March 2019 Actual: 18 th March 2019 – 12 th May 2019
Progress	The user can enter a job number and set its status to active or suspended. The user can now alert the relevant user if tasks are overdue or If a job has taken longer than expected. ISSUE: The user must search for a task based on the task ID rather than task names Added tooltips
Outputs created	An interface has been created which allows the user to set jobs as overdue and to alert users.

Statistics Component

Status	Complete
Activity Owner	All team members
Objective	Create a statistics interface that will display statistics to the relevant user displaying job duration vs estimated task duration, estimated task duration vs actual task duration, frequency of unexpected delays based on inspection failure and having to order parts
Activity dates	Planned: 25 th March – 21 st April 2019 Actual: 1 st April 2019 – 12 th May 2019
Progress	Decided on using bar charts as the specific way of displaying data. Created bar chart using local data Created queries to get job data and task duration data Populated bar chart Created remaining barcharts Made further queries to get manufacturer, task duration and frequency data from the database. Populated remaining tables. Formatted interface.
Outputs created	An interface has been created that displays 4 different barcharts displaying relevant information to finance users or managers.

Testing

Status	Complete
Activity Owner	Matthew Randle
Objective	Create tests for each component displaying expected outcome, actual outcome and whether the test passes or fails
Activity dates	Planned: 15 th April – 12 th May 2019 Actual: 22 nd April – 15 th May 2019
Progress	Created template for testing Created tests for Job progress component Created tests for task allocation Created tests for user account Created tests for job delay Created test for user dashboard Completed tests
Outputs created	Test cases have been created for each component, providing rigorous testing to each feature. Pass or fail results have been passed onto the developers to help rectify issues.