# CITS3200 Team 15

# Minutes of Meeting 3 held on August 8, 2023

Present: Joshua, Jonathan, Genevie, Ryan

Apologies: Muslim

Absent: None

Meeting Started: 10:00am

1.1 Decide on Database Technology

Genevie shared her database research and recommended utilizing a graph database to display relationships between units. Neo4j software was suggested as a suitable tool for constructing the graph database. Joshua admitted unfamiliarity with graph databases, prompting Genevie to provide an explanation of word trees and their operation.

Everyone agreed to use a graph database.

1.2 Visualization of Prerequisites

Genevie discussed a possible way of visualizing the unit prerequisites: a tree like structure showing the relationships between units, if you click on the unit in question, you get a more detailed view. She noted that word trees could effectively visualize the branching effects of units, although limitations exist in accounting for points and multiple parent units.

Joshua expressed concern that it may be hard to follow due to the number of prerequisites and units. He suggested limiting the display to only show lines from related prerequisites to avoid confusion from excessive lines. He further suggested that color coding and unit highlighting could be used to enhance visual clarity.

Jonathan suggested that the study planner and prerequisite tree could be combined to make a more intuitive interface. First show the study planner as it is, and if the user clicks on a unit, it shows the prerequisite tree for that unit.

Genevie suggested experimentation with visualization, using either a tree or highlighting the units.

Joshua proposed a strategy of initially hard coding the units to assess functionality, expressing concerns about the potential difficulty in visualizing the tree due to the large number of units.

1.3 Recap of What was Done

Joshua briefly talked about the first version of the website and the study planner that was created last week.

1.4 Next Steps

Joshua talked about the next steps for the project namely:

* Table needs to add rows when unit dragged below table.
* Table needs take unit names as an input and generate the table based on the names and amount.
* Visualisation on study plan. Highlighting or/and tree.
* Graph Database.
* Client-side prerequisite checking, and possible final check by backend once submitted.
* Some way to visualise requirements on the table.
* Representation of units as JSON objects, decide on fields.

Joshua wanted to ask Muslim what he believed was left to do for the back end but he wasn’t present.

1.5 Discussion of Unit Prerequisites

Genevie expressed concern for representing the varying and confusing prerequisites for units in a graph database.

Joshua said that for now she should just ignore them and implement the simplest prerequisites graph, that way if the team doesn’t have time to implement all the other prerequisites relationships there will still be a working product to present to the client. Once the relationship between the simplest prerequisites can be represented on the graph, she can move towards implementing the complex relationships.

2.1 Work on Sprint 1

Ryan demonstrated the work he’s done so far for the first sprint. He completed a scope of work document and started the risk assessment document.

Jonathan offered to do the set of stories and the project acceptance tests. Jonathan stated anyone can add any other story they feel is appropriate to the document when he uploads it to the team chat.

Genevie reminded the team that the due date is next week Wednesday.

Joshua said the sprint items must be completed by the next meeting on Tuesday.

2.1 Role Allocation

Role allocation for the week:

* Ryan and Jonathan are documenters.
* Genevie, Muslim, and Joshua are coders.

2.2 Delegation of Extra Work

Jonathan offered to organize and upload the team documents to GitHub.

It was stated that we need to follow up the client about the excel spreadsheet that contains unit information. She also needs to be sent the requirements document, so she may approve it. It was agreed that this task is to be given to Muslim.

Genevie stated she needs to research more into graph databases and how to integrate it with Flask. Joshua said Muslim can help her with that.

Joshua said a prototype (class) needs to be created to represent unit information in JS, as prerequisite checking will be done client-side to make the application responsive. The task was given to Jonathan to complete.

3.1 Informal Peer Assessment

Joshua suggested doing an informal peer assessment so there’s no surprises in the peer review and to give members a chance to improve their standing in the team and so get a better peer score.

Everyone was happy with the progress the team is making, as well as the contributions from other members. Members present said Jonathan needs to take on more work and be more responsive on the team chat. Jonathan agreed to take on more work this week.

3.2 Team Member of the Week

Muslim was team member of the week.

4. Meeting Concluded

The meeting ended 10 minutes early, as all the items on the agenda were addressed.

The next team meeting is scheduled to take place during the 15th of August 2023 from 10:00am – 11:30am

Meeting Closed: 11:20am

Action Items:

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| All | * Complete booked hours. * Team members to contribute and collaborate on GitHub using separate branches. * Have work done by the next meeting, Tuesday 15th of August. |
| Muslim | * Send Ryan’s project requirements document to the client (ASAP). * Either investigate parsing the excel spreadsheet and PDF the client sent to retrieve unit information AND/OR investigate designing a staff login so they can update unit prerequisites. * Help Genevie if needed for integrating database with Flask. * Anything else he believes needs to be done for the back end. |
| Jonathan | * Set of stories. * Project acceptance tests. * Create a JS prototype to represent units and their information |
| Ryan | * Scope of work document. * Risk assessment document. |
| Genevie | * Follow up on Code of Conduct. * Start work on the graph database. * Research into integrating the database with Flask. |
| Josh | * Complete this week’s deliverables. * This meeting’s minutes. * Experiment with unit visualization (tree/highlighting). * Add new row when unit dragged below table. * Take unit names as input and generate units with those names. Growing the planner if necessary to fit the number of units. |