Meeting Minutes Template (Copy this each week!)

Date & Time: xx/12/22 | x.xxPM – x.xxPM

Location: A32x PSQ Building

Participants: Gregory Kua, Nathan Everett, Xinyao Huang, Noah Keedle-Isack, Alvaro Resende, Michael McDonald

**Topic**

* Discussion Here
* Discussion Here #2

**Topic 2**

* Discussion Here
* Discussion Here #2

**Topic 3**

* Discussion Here
* Discussion Here #2

Date & Time: 17/10/22 | 4.10PM – 4.40PM

Location: A327 PSQ Building

Participants: Gregory Kua, Xinyao Huang, Noah Keedle-Isack, Alvaro Resende, Hai-Van Dang

**Introduction**

* Name & Course names, Quick introduction
* The students have the call to do their own projects. The supervisor is there to advice if there are any risks / problems that might arise.
* You need to think about your careers now. Check out the careers / opportunity available.

**Main**

* Shared folders for the documents, Version Control shared, Planners,
* Quick rundown on the assessment brief
* Writing a main outline for the final report
* Break-down the main tasks into subtasks
* Define a clear output, User Journey Maps implementation (Show clear steps how to use your project)
* MVP needs to be done by Christmas (If not there is a chance you might fail)
* Reminder on the deadlines
* Objective, Output, MVP, Features + Plans for Sprint 1 is written on a paper

Date & Time: 28/10/22 | 11.15AM – 12.59PM

Location: Room 205 Library

Participants: Gregory Kua, Nathan Everett, Xinyao Huang, Alvaro Resende, Michael McDonald

* Noah could not attend the meeting due to an illness

**Project Discussions**

* Quick introduction on what each student’s topic are for their Final Year Project
* Hosting Ideas for the project
* Sprint Planning Ideas
* Discussed frameworks and languages
* Affordable Hosting Sites
* Shared Discord contacts

Date & Time: 4/11/22 | 11.15AM – x.xxPM

Location: Smeaton 101

Participants: Gregory Kua, Nathan Everett, Xinyao Huang, Noah Keedle-Isack, Alvaro Resende

**Intro**

* Discussion by supervisor
* Rounds on what each student have done for their sprints, Suggestions and advice have been given to each student accordingly

**Supervisor Notes**

* Write the documentation about the Microphone in the Project Portfolio
* LuxAI structure on how the robot works can be taken but needs to be documented in the references.
* Ask Thomas about the ethical approval for User testing

Date & Time: 11/11/22 | 11.15AM – x.xxPM

Location: Room 112 Library

Participants: Gregory Kua, Noah Keedle-Isack, Alvaro Resende, Michael McDonald, Xinyao Huang

* Nathan could not attend the meeting due to an illness.
* Quick update on our final year project
* Chatting about frameworks
* Aurelia
* Sprint Review
* **Sam**
* **Michael**
* **Gregory**
* Followed up on feedback since last week,
* Added more headings to final report
* Updated Project Plan with numbered
* **Noah -**
* Added missing headings to project report template.
* Updated project plan and project initiation based on feedback from DLE, and from previous meeting.
* Created Gantt chart and added it to project initiation.
* **Xinyao -**
* Modify the project template content.
* Join the school's software engineering discord.

Date & Time: 18/11/22 | 11.15AM – x.xxPM

Location: A327 PSQ Building

Participants: Gregory Kua, Nathan Everett, Noah Keedle-Isack, Alvaro Resende, Michael McDonald, Xinyao Huang

**Sprint Planning**

* Checking Sprint Planning for every students

**Main**

* Kind reminder to write everything in the portfolio

**Greg**

What was done in sprint 2?

1. Resolve issue with robot

What to do in sprint 3?

1. The robot needs to save the audio
2. Write infrastructure of the robot
3. Design of the protocol/modules
4. Planning: Meet me on Monday,2-3pm for planning, data research

**Michael**

What was done in sprint 2?

1. Backend development: basic functionalities (show the names of gamers, actual data) using public API from games, show the data in web)

What to do in sprint 3?

1. Frontend development
2. Whole picture: API prototypes, front end design, list of features
3. Project vision and market research, list of features

Meet me on Monday,2-3pm for planning

**Nathan**

What was done in sprint 2?

1. Gateway, implementing the services
2. Uploading, downloading data to gcloud storage

What to do in sprint 3?

1. Draw the interaction picture into the report
2. Write about the flexity to switch to a cloud into the report
3. Combining compression with uploading/downloading
4. Paper to compress using machine learning: select the best one and integrate it into the system

**Noah**

What was done in sprint 2?

1. Web socket server set up
2. Test
3. Half way to authentication
4. Finalise the plan

What to do in sprint 3?

1. Write the report: infastructure, put the project initiation into the report0
2. Write about technology
3. Write about authentication system with microsoft identity into the report
4. Design the front end

**Sam**

What was done in sprint 2?

1. API for log in, listing plants, adding plants

What to do in sprint 3?

1. UI implementation
2. Set up landing page
3. Add more details of plants
4. Feature to add more plants of own user
5. Report: 1 section about security consideration/ sign up
6. Write section about the used devices/sensors

**Xinyao**

What was done in sprint 2?

1. Demo for log in is not working

What to do in sprint 3?

1. Organise the backlog into sprints
2. Make log in page running
3. More details about the plan
4. Design of the websites
5. Design the database schema
6. Implement the page to show the exam to the students

Date & Time: 25/11/22 | x.xxPM – x.xxPM

Location: Room 216 Library Building

Participants: Gregory Kua, Nathan Everett, Xinyao Huang, Alvaro Resende,

**Gregory -**

* Showed Project designs via phases, UML diagrams
* Explained how the enrolment and validation phases work

**Xinyao –**

* Showed database ER diagram

Date & Time: 02/12/22 | x.xxPM – x.xxPM

Location: A327 PSQ Building

Participants: Gregory Kua, Nathan Everett, Xinyao Huang, Noah Keedle-Isack, Alvaro Resende,

**Gregory**

* What was done in sprint 3?
  + Writing the infrastructure for the robot
  + Readjusted Sprint Dates
  + Program base Designs
  + Filled in Trello
  + Meeting with Dr Hooman, Read through notes that was given
  + Chose where to store the audio recordings
    - AWS
      * 2000 Puts
      * 20000 Gets
      * 5GB Storage
* What to do in sprint 3?
  + Showing MVP by then,

**Sam:**

What was done in sprint 3?

* Landing page implementation refined (probably complete)

What to do in sprint 4?

* UI Implementation for plant details
* Signup page (endpoint completed)
* Deleting/Updating plants
* Endpoint for collecting metrics (POSTable by any device)

Issues:

**Nathan**

What was done in sprint 3?

* fixing bugs

What to do in sprint 4?

* Add security to gateway (authorisation, access control)
* Frontend to upload/download
* Draw the interaction picture into the report
* Write about the flexity to switch to a cloud into the report
* Combining compression with uploading/downloading
* Paper to compress using machine learning: select the best one and integrate it into the system

Issues: no

**Noah:**

What was done in spritn 3?

* Design for mobile ui in report
* Technology section in report
* Found dataset for AI

Issue: may need to use matlab online for training online

Next sprint?

* Finish mobile front end
* Detection of text messages

**Melissa**

What has been done

* AI algo to predict possible trains using data from gwr

Next sprint

* Implement UI
* Integrate AI backend with frontend in mobile

Issue: no

**Xinyao**

What has been done

* Finished the database and drew an ER diagram
* Basically done with the login and registration screen

Next sprint

* Finding server Issues

Issue:

* Servers sometimes fail to start

Date & Time: 09/12/22 | x.xxPM – x.xxPM

Location: Room 205 Library Building

Participants: Gregory Kua, Nathan Everett, Xinyao Huang, Alvaro Resende, Michael McDonald

* Gregory
  + Shows audio recordings from the robot
  + Explaining the debugging problems that I've been having
* Xinyao
  + Readjusted Sprint content
* Sam
  + Added locations, refactored app to use locations
  + Lots of UI work, particularly the signup page is now functional
  + Need ability to update/remove plants and locations
  + Need to create the routes for POSTing data to locations and plants

Date & Time: 16/12/22

Location: A327 PSQ Building

Participants: Gregory Kua, Nathan Everett, Noah Keedle-Isack, Alvaro Resende, Xinyao Huang, Melissa, Jasper

**Gregory**

What has been done in Sprint 4

* Robot is finally able to save recordings of voice (From Sprint 2)
* Robot is able to understand Human Voices and ignores background noise (From Sprint 2)
* Processing in the NUC automatically
* Cloud API Research on how to use Boto3 to implement S3 storage uploading
* Stored Data file name will be randomised
* To avoid the same file name be uploaded to the cloud that will cause conflictions
* Robot is now able to record the voice within a certain time, (10 seconds at the moment)
* This is to allow the user to know when they’ll be recorded and allow for time for user to “prepare”
* Project Portfolio
* Reference List updated
* Market Research has been done
* HSBC Bank UK
* Google Assistant
* Windows 10 / 11
* ~~Audio Data is Storing Correctly and Safely~~
* ~~File Uploading on AWS S3~~

What to do in Sprint 5 (Starting 9th January)

* Research into streaming services on how they process their audio

Issues: Code for Uploader is correct but currently there are authentication issue with the credentials.

**Noah**

What has been done in Sprint 4

* Got mobile project compiling on Android (iOS remains to be looked at)
* Messages can now be sent and received via the app
* Formatted abusive speech dataset for use in training
* Trained first version of Neural Network and exported network as DLL. This will then be loaded into the API next sprint.

What to do in Sprint 5

* Refine Mobile UI
* Add authentication to mobile app
* Pass messages through Neural Network to ensure they are safe to send

Issues:

* Way too many other assignments were due during this sprint... 🙁

**Sam**

Completed in Sprint 4:

* Angular frontend containerised (Docker) on samoboolean/ng-plantmo
* Node TS Express backend containerised (Docker) on samoboolean/plantmo-server
* Lots of code quality improvements, moved common code to npm package (plantmo-common)
* Refactored code base to allow for locations (locations store collections of plants)
* Metrics collecting is available for locations and plants. However not viewing/displaying it yet
* Wired up the raspberry pi to the sensors with the analogue to digital converter and got data collecting (soil moisture) in a percentage

To do in sprint 5:

* Pick charting library
* Write python on the Pi to collect and send metrics to the server

Issues:

* Containerisation + constant build issues, but it is all stable now. Sometimes the docker build takes like 20 minutes on my x64 PC

**Demonstration:**

Greg demonstrated with recording of robot: robot can record but not upload to cloud yet

Noah showed the code of model training using neural network, and messaging application with simple GUI

Xinyao showed webpages for user registration, login, exam with multiple choice questions (single answer only)

Melissa showed the mobile app with GUI for choosing train route. It would show train, time, destination. Melissa also presented the code for training model to learn about the available seats on the train.

Luke demonstrated a mobile app which can show the list of manga with basic information.

Jasper demonstrated a remote server sending and running a script on a windows machine.

Date & Time: 20/01/23 | 11.15AM – 12.00PM

Location: A327 PSQ Building

Participants: Gregory Kua, Nathan Everett, Xinyao Huang, Noah Keedle-Isack, Alvaro Resende, Michael McDonald

**Gregory:**

Completed in Sprint 5

* Due to assignments Not much was done due to other assignments that needs to be done

To do in Sprint 6

* Sprint 5’s Tasks and some of Sprint 6’s Task
* Includes working on reports
* Project Testing and ethical approval

**Sam**:

Sprint 5: completed suggestions based on last meeting. Charts implemented but not fetching from live data. More recently, worked on the report. Did not complete the requirements of the sprint because of other deadlines

Sprint 6: Continue working on report, crud implementations and security considerations implemented (sql injection protection etc). Start to plan the user experiments

Date & Time: 27/01/23 | 11.00AM – 1.00PM

Location: A32x PSQ Building

Participants: Gregory Kua, Noah Keedle-Isack, Alvaro Resende

**Sam**

* Investigating and experimenting with charts for showing location temperature history. Data is being collected for locations (from Pi Pico)
* Working on updating and deleting locations and plants
* Dark mode interface
* Need to expand more sections in the report, and discuss how the Pi’s have been wired up

**Noah**

* Continued filling out report for work done for MVP.
* Investigating ways to improve AI detector, and looking at switching to a pattern recognition implementation.
* Next Week: UI Overhaul + Store previous messages in Database.

**Gregory**

Documentation Updates

* Reference List is now done properly and has been cited
* Meeting Minutes document for the Project portfolio has been rewritten to accommodate the portfolio
* Sprints has been rewritten as well

By Next Meeting

* Testing Methodologies will be done
* Ethical Forms have been checked