

Meeting Minutes

Software Eng

Team #11, Mac-AR
Student 1 Matthew Collard
Student 2 Sam Gorman
Student 3 Ethan Kannampuzha
Student 4 Kieran Gara

Table 1: Revision History

Date	Developer(s)	Change
2023/09/12	Matthew Collard	Creation of minutes
2023/09/15	Ethan Kannampuzha	Meeting 2 Notes
2023/09/19	Kieran Gara	Supervisor Meeting 1 Notes
2023/09/25	Ethan Kannampuzha	Meeting 3 Notes
2023/09/26	Ethan Kannampuzha	Supervisor Meeting 2 Notes
2023/09/28	Ethan Kannampuzha	Meeting 4 Notes
2023/10/03	Ethan Kannampuzha	Supervisor Meeting 3 Notes
2023/10/17	Ethan Kannampuzha	Supervisor Meeting 4 Notes

Team Meeting 1

Details

Date	2023/09/12
Location	Thode Study Room 9
Time	3:30pm-5pm

Attendance:

- Matthew Collard
- Sam Gorman
- Ethan Kannampuzha
- Kieran Gara

Agenda:

- Choose Projects
- Email Supervisors
- Decide group member roles

Team Minutes

- Projects:
 - [Rhombichess](#)
 - [Fitness Tracker](#)
 - [Soccer App](#)
 - [Food rescue](#)
 - [ChemFAST](#)
 - [VoiceLab](#)
 - [X-ray Ai](#)
 - [XR Game](#)
- [Group member Roles](#)

Project List:

Rhombichess:

- Description:
 - Chess on a rhombus board instead of a 8x8 grid, new pieces new rules
 - competitive 2 player game, preferred to be playable online
- Source:
 - McMaster suggested list #12
 - Supervisor: Dr. Paul Rapoport
- Stakeholders:
 - People that like chess
 - People that like board games

Fitness App:

- Description:
 - Fitness app that tracks the progress of the user
 - can track diet, workout, etc.
- Source:
 - Suggested by Ethan
 - Supervisor: None
- Stakeholders
 - People that want to be healthy
 - People that want to workout

Soccer app:

- Description:
 - Builds soccer teams for you
 - communication with other members
- Source:
 - Suggested by Ethan
 - Supervisor: None
- Stakeholders
 - People that like soccer

Food Rescue:

- Description:
 - Connects non-profit food distributors to those who need food
 - Mobile application
- Source:
 - McMaster suggested list #11
 - Supervisor: Ahana Malhotra, Dr. Elkafi Hassini
- Stakeholders
 - Food Distributors
 - Families that need food

CHEMFAST:

- Description:
 - Study resource for students that custom tailors learning material based on their needs
 - Database with past questions from tests and assignments to pull from
- Source:
 - McMaster suggest list #6
 - Supervisor: Dr. Sharonna Greenberg
- Stakeholders
 - Students taking chemistry
 - Professors

Improving VoiceLab:

- Description:
 - VoiceLab is a program that can measure and manipulate voices
 - The goal is to improve voicelab by adding multi processing and APIs
- Source:
 - McMaster suggested List #5
 - Supervisor: Dr. David Feinberg
- Stakeholders
 - Data Scientists

AI for X-ray read:

- Description:
 - Analyzes chest X-rays and gives a diagnosis based on AI
 - Create radiology reports based on findings
- Source:
 - McMaster suggested list #3
 - Supervisor: Dr. Mehdi Moradi
- Stakeholders
 - Doctors
 - Hospital workers
 - X-ray specialists

XR Game:

- Description:
 - Alternate reality game
 - Communication with others is major
- Source:
 - McMaster suggested list #17
 - Supervisor: Dr. Irene Ye Yuan
- Stakeholders
 - People that enjoy VR/AR/XR
 - Gamers
 - Isolated/lonely people

Team Member Roles

Role	Name	Responsibility
GitHub Administrator	Sam	Merge and maintain Github Branches
Final Revision Editor	Kieran	Last editor of requirements documents, makes sure we adhere to writing guidelines
Communication Director	Matthew	Communicates with the Supervisor/Prof and any stakeholders
Meeting Minute Writer	Ethan	Keeps track and writes down the meeting minutes
Lead Developer	Kieran	Leads the development process, makes sure we are on the right track to complete our goals at the agreed upon due dates
Lead UI Designer	Matthew	Makes sure the user interface is clear to the user, and functioning. Implements UI based code such as buttons
Functional Requirement Lead	Ethan	Makes sure every function requirement is met during the coding process
Non-Functional Requirement Lead	Sam	Makes sure every NFR is met during the coding process

Team Meeting 2

Details

Date	2023/09/15
Location	PGCLL Basement
Time	12:30pm-1:20pm

Attendance:

- Matthew Collard
- Sam Gorman
- Ethan Kannampuzha
- Kieran Gara

Agenda:

- Decide Git Workflow
- Work on Development Plan

Team Minutes

- Decided on XR Social Collaboration Project
- Git Workflow:
 - For two primary branches (main/develop), require pull requests to resolve potential merge issues
- POC Demo Discussion:
 - Create a simple working AR program
 - Show that we have the ability to network with different devices
- Coding Decisions:
 - Going with Unity framework (C coding language)
 - Using NUnit for unit testing
 - Using dotCover for code coverage
 - Decided basic coding standards (variable syntax, class names syntax, etc.)
- Decided on using Google Calendar for scheduling milestones/deadlines

Supervisor Meeting 1

Details

Date	2023/09/19
Location	Dr. Yuan's office: ABB C529
Time	11:30am-12:00pm

Attendance:

- Dr. Irene Ye Yuan
- Matthew Collard
- Sam Gorman
- Ethan Kannampuzha
- Kieran Gara

Agenda:

- Meet with supervisor to discuss what is expected out of this project
- Discuss stakeholders, scope, and expected features to prepare for requirements document
- Answer Dr. Yuan's questions about deadlines and deliverables

Team Minutes

- Planned weekly half-hour meeting with Dr. Yuan, 11:30am every Tuesday at her office
- Disclosed Development Plan, Requirements, POC and Rev 0 deadlines to Dr. Yuan
- Project Goals and Scope:
 - AR game to enable social interaction from a remote environment
 - Should be usable by people who can't get to physically social events or are not comfortable/willing to do so
 - Initially only needs to sustain 2-4 people, can expand later
 - Likely for indoor usage
- Stakeholders:
 - People comfortable with technology, ages 15-30

- People who already know each other or are in pre-formed groups
 - Initially limited to the developers and friends/family
 - Dr. Yuan, on the basis of her research interest in social interactions via games
- Features/Technical requirements:
 - Use a centralized server as opposed to one person hosting
 - Must be developed for mobile phones
 - Sensors: Phone's gyroscope and accelerometer. Also camera and microphone.
- Discussed prospect of a remote AR collaborative escape room type game completed in sessions

Team Meeting 3

Details

Date	2023/09/25
Location	Discord
Time	3:30pm-4:30pm

Attendance:

- Matthew Collard
- Sam Gorman
- Ethan Kannampuzha
- Kieran Gara

Agenda:

- Finalize the Problem Statement and Development Plan documents.

Team Minutes

- Updated the input and outputs sections for the problem statement, as well as the stakeholders (removed developers)
- Added more descriptions to Goals and Stretch Goals
- Added section in workflow for Development Plan explaining project management will be git project boards and git issues
- Updated PoC Demo Plan to include the actual demonstrations we plan to do as well as what will happen if we cannot achieve what we are striving for
- Added more descriptions to Technology section of Development Plan

Supervisor Meeting 2

Details

Date	2023/09/26
Location	Dr. Yuan's office: ABB C529
Time	11:30am-11:45am

Attendance:

- Dr. Irene Yuan
- Matthew Collard
- Sam Gorman
- Ethan Kannampuzha

Agenda:

- Update Dr. Yuan on current progress
- Run implementation ideas by Dr. Yuan

Team Minutes

- Added Dr. Yuan as a collaborator on the GitHub repo so that she can see our progress and documents
- Discussed two ideas for implementation:
 - Two people work on consecutive tasks that do not have any relation to each other
 - Escape room idea: Two people work on several sub tasks that each give them a code letter on completion. When the code letters are assembled, the main task is completed
- Dr. Yuan mentioned that on final implementation we should get people to play the game and see how they interact (record their play session)

Team Meeting 4

Details

Date	2023/09/28
Location	Discord
Time	4:40 - 6:10pm

Attendance:

- Matthew Collard
- Sam Gorman
- Ethan Kannampuzha
- Kieran Gara

Agenda:

- Delegate SRS work for different sections
- Work on creating high level use case for system

Team Minutes

- Discussed the current sections of the SRS that need to be worked on:
 - Project Drivers - Sam
 - Functional Requirements - Kieran (use cases/FRs), Matt (FRs)
 - Non-functional Requirements - Sam (review NFRs)
 - Traceability - Group Collab
 - Project Issues - Ethan
 - Appendix - Sam
- Delegated the SRS work for each team member
- Worked on system use case that goes over user interactions with the system

Supervisor Meeting 3

Details

Date	2023/10/03
Location	Dr. Yuan's office: ABB C529
Time	11:30am - 12:00pm

Attendance:

- Dr. Yuan
- Matthew Collard
- Sam Gorman
- Ethan Kannampuzha
- Kieran Gara

Agenda:

- Update Dr. Yuan on current progress
- Go over SRS
- Discuss puzzle ideas
- Discuss needs for implementation

Team Minutes

- Informed Dr. Yuan about current progress on SRS
- Dr. Yuan took a look at the SRS (seems fine)
- Puzzle Brainstorming:
 - one person sees something, other person has to match it with something on their end
 - people in same place, see different things, find the differences between the environments
 - Should we have users see same thing and work on puzzle together
 - Should users see different things and the puzzle connects the two environments?
- How will users interact with system?
 - tapping screen?

- dragging items on their screen?
- Server Discussion:
 - Take a look at AWS or Digital Ocean for cloud server
 - May need small server to help with data communication

Supervisor Meeting 4

Details

Date	2023/10/17
Location	Dr. Yuan's office: ABB C529
Time	11:30am - 12:00pm

Attendance:

- Dr. Yuan
- Matthew Collard
- Sam Gorman
- Ethan Kannampuzha
- Kieran Gara

Agenda:

- Discuss potential hazards for the project with Dr. Yuan

Team Minutes

- Two types of hazards:
 - User causing Hazard
 - * User getting injured while doing movements
 - * Outdoor game, users must be aware of outdoor factors
 - * if indoor and two players play in the same room, need to be careful they don't bump into each other
 - * User getting dizzy while playing
 - System causing Hazard
 - * Loss of connection
 - * Syncing issues between puzzle rooms
 - * Phone crashes
 - * Calibration issues (want to prevent before it happens)
- Potential prevention method would be to have the app freeze when user moving too fast or too far away from their puzzle area
- Could have set of warnings at beginning when launching session
- Could have pop up during session for other warnings
- Need to think about physical waiver (perhaps apart of terms of service agreement)