MEDISAFE - STAY AWAY AND DEFEAT DISEASE

Project Id: 2022 - 143

Project Logbook

T M B C K Thennakoon

IT18077698

Department of Information Technology

Sri Lanka Institute of Information Technology

Sri Lanka

November 2022

Declaration

I declare that this is my own work and this proposal does not incorporate without acknowledgment any material previously submitted for a degree or diploma in any other university or Institute of higher learning and to the best of our knowledge and belief it does not contain any material previously published or written by another person except where the acknowledgment is made in the text.

Name	Student Id	Signature
T M B C K Thennakoon	IT18077698	

The supervisor/s should certify the proposal report with the following declaration.

The above candidates are carrying out research for the undergraduate Dissertation under my supervision.

....

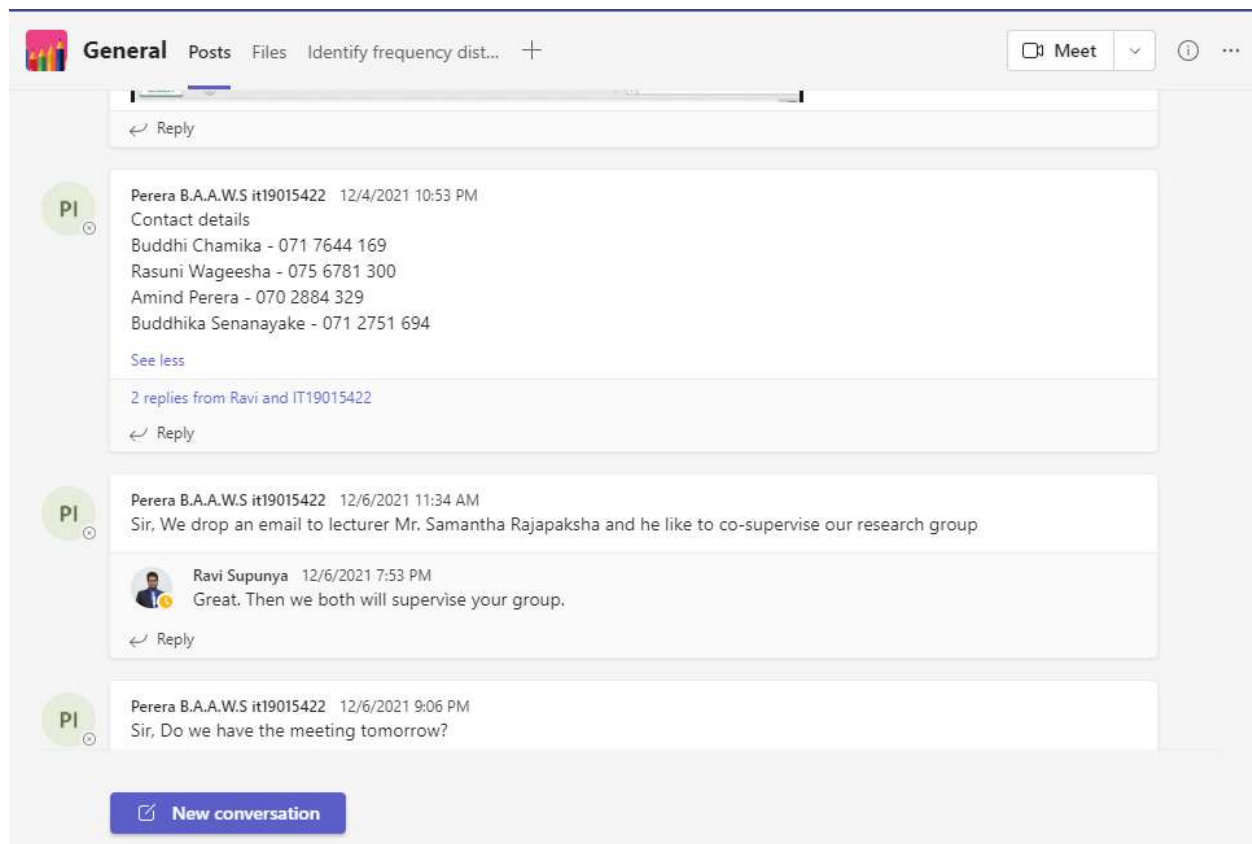Signature of the Supervisor   Date

One-year workload completion

(2021/12/02) – Meeting 01

Meeting with Supervisor

Summary	Arrange a meeting with a supervisor and discuss the research project selected topic for the first time.

(2021/12/02 – 2021/12/25)

Workload completed for the month

Completed workload	Start to follow the Arduino technology learning course.
	Follow Arduino-based implemented projects research papers.

	Discuss project implementations with group members.
	Found an external supervisor and continue the discussion with him. (Dr. Shashika Liyanage)
	Ready for the topic evaluation form.

(2021/12/28)

Workload completed for the day

Summary	Submit the topic evaluation form

Friday, December 17, 2021

Ravi Supunya 12/15/2021 10:17 PM
Dear Students,
Please complete the Topic Assessment form within tomorrow (16th December) and send me to check it.

Perera B.A.A.W.S it19015422 12/17/2021 1:47 PM
Dear Sir,
We already sent it to you via email but still didn't get any response. May we know the progress about our topic assessment document? Because the submission link is already uploaded. So, If there are any issues let us know.

↩ Reply

Monday, January 10, 2022

(2022/12/29 – 2022/01/16)

Workload completed for the above period

Completed workload	Continue the Arduino course follow
	Identify what sensors should be used for my device (MediSafe) implementations.
	Discussions with group mates about the future workload.

(2022/01/17)

Workload completed for the day

Summary	Create the Project charter/ cover sheet and submit it to the relevant cloud space.

(2022/01/18 – 2022/01/31)

Workload completed for the above period

Completed workload	Start the proposal report creation and submit a draft document for the marking.
	Continue the relevant electronic device findings. • Flow sensor • Temperature • Pulse • SPO2
	Follow some YouTube tutorials about the integration of the following sensors into the Arduino board.
	Ready for the proposal presentation.

(2022/02/01)

Workload completed for the day

Summary	Proposal presentation

(2022/02/02 – 2022/02/11)

Workload completed for the above period

Completed workload	Continue the project proposal report completion.
	Arrange meetings with the supervisor and discuss the current progress.
	Submit the finalized project proposal report to the relevant cloud space for the marking.

(2022/02/12 – 2022/02/28)

Workload completed for the above period

Completed workload	Create the project status document I and submit it.
	Follow Arduino board coding development tutorials and gain some knowledge.
	Follow research papers that related to my disease identification. (Covid'19)

(2022/03/01 – 2022/03/05)

Workload completed for the week

Completed workload	Collect disease-related articles.
	Discussions with the supervisor about the current progress.

(2022/03/06)

Workload completed for the day

Completed workload	Ready to discuss the current progress with the supervisor.
	Check the progress of the individual member component and discuss what things should be changed.

(2022/03/07 – 2022/03/14)

Workload completed for the week

Completed workload	Started to collect details about covid-19 and diseases, and discuss with the doctor about the system.
	Follow the course with group members python. (Udemy)

(2022/03/15 – 2022/03/21)

Workload completed for the week

Completed workload	Read more research papers.
	Start to write an individual research paper (Abstract)
	Learn machine learning models.

(2022/03/22 – 2022/03/31)

Workload completed for the above period

Completed workload	Start device implementation.
	Collect the dataset collection.
	Discussions with Supervisor that environment creation and necessary libraries installed.

(2022/04/01 – 2022/04/15)

Workload completed for the period

Completed workload	Discussions with an external supervisor that how to identify diseases by levels. (Covid)
	Gather details about the covid-19 predictions.
	Began studying through research articles and video tutorials
	Continue individual overleaf document with novelty.

(2022/04/16 – 2022/04/24)

Workload completed for the period

Completed workload	Implementing an IoT device and lean about Arduino libraries.
	Stated dataset model training first steps.
	Continue dataset model training.
	Draw ER diagram, Flow chart diagram to describe our system to the Co-supervisor.

(2022/04/25 – 2022/04/30)

Workload completed for the week

Completed workload	Connect implemented device and integrate.
	Start creating a proposal presentation.

(2022/05/01 – 2022/05/10)

Workload completed for the period

	Continue the proposal presentation creation.

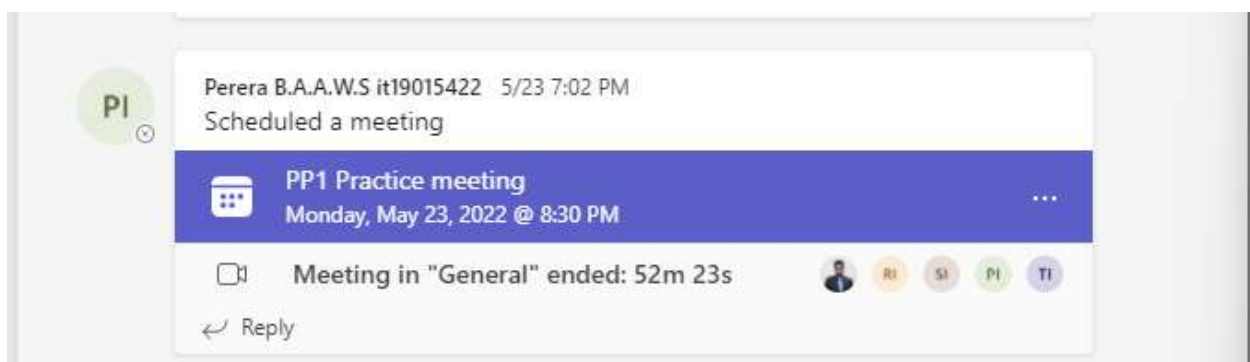| Completed workload	Connect the device to firebase and update data in firebase.
	Started implantation of the covid analysis.

(2022/05/11)

Workload completed for the day

Summary	Progress presentation I

(2022/05/11 – 2022/05/23)

Workload completed for the period

Completed workload	Troubleshooting errors when the device passes data to firebase.
	Continue implementations of covid-19 analysis.
	Practice for the proposal presentation/ present it to the supervisor and got feedback.
	Send the created PP1 slides to the Supervisor.

(2022/05/24)

Workload completed for the day

Summary	Proposal presentation 1 (50%)

(2022/05/25 – 2022/05/31)

Workload completed for the period

Completed workload	Continue implementation by passing the data Device to firebase and firebase to the application.
	Meeting with an external supervisor.
	Discuss with group members about web app development.

(2022/06/01 – 2022/06/11)

Workload completed for the period

Completed workload	Continue Covid-19 analysing
	Strat wireframes designing in covid analysis and home page.

(2022/06/11 – 2022/06/18)

Workload completed for the week

Completed workload	Start MEDISAFE application development
	Install relevant software and plugins

(2022/06/19 – 2022/06/25)

Workload completed for the week

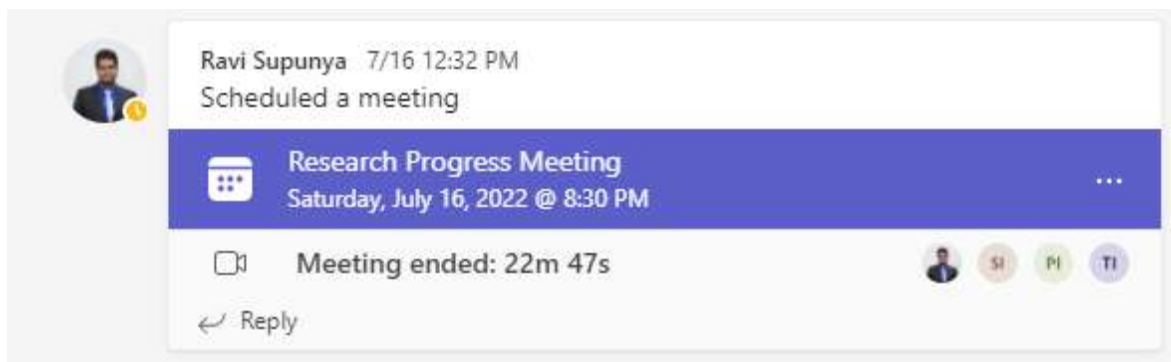| Completed workload	Test system with Real users without fronted.
	Meet external supervisor. (get ideas and do some changes)

(2022/06/26 – 2022/07/02)

Workload completed for the period

Completed workload	Continue developing system
	Continue the research paper creation.
	Gather conference details from local and foreign.

(2022/07/03 – 2022/07/17)

Workload completed for the period

Completed workload	Test system with Real users without fronted.
	Progress meeting with supervisor
	Continue development progress.

Ravi Supunya 7/16 12:32 PM
Scheduled a meeting

Research Progress Meeting
Saturday, July 16, 2022 @ 8:30 PM
...

Meeting ended: 22m 47s

Reply

(2022/07/18 – 2022/07/31)

Workload completed for the period

Completed workload	Continue tutorials following that related to the individual component implementation.
	Research paper creation and submission of the paper to different conferences.

(2022/08/01 – 2022/08/13)

Workload completed for the period

Completed workload	Started wireframe designing entire application and discuss with group members.
	Meeting with co-supervisor.
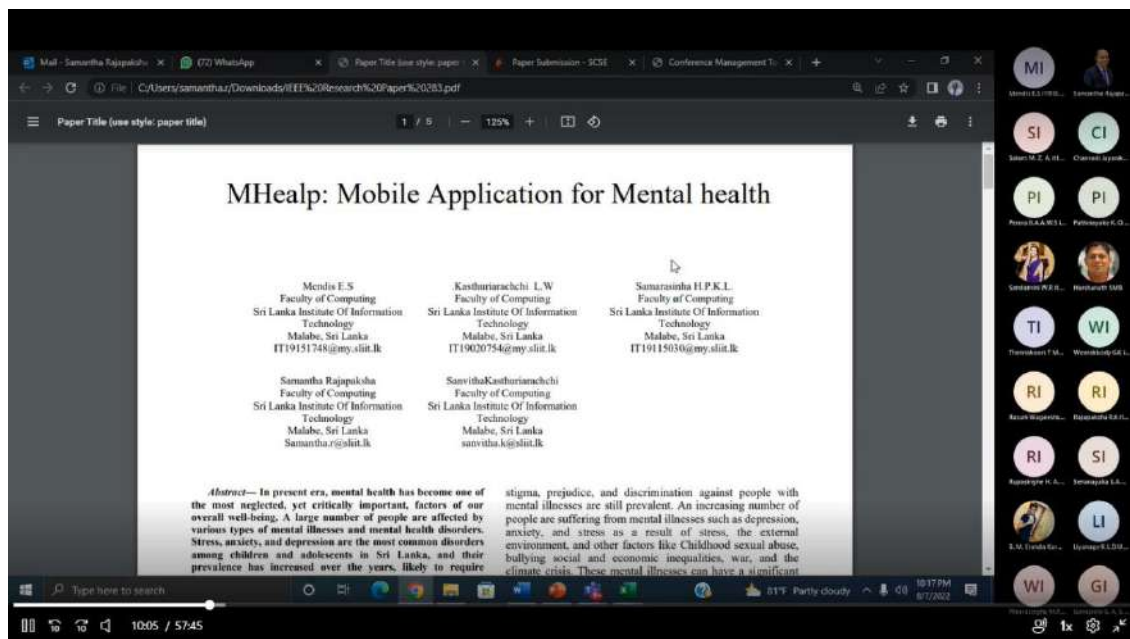
(2022/08/14 – 2022/08/20)

Workload completed for the week

Completed workload	Finalized the wireframe design.
	Design home page, User details collecting page, and user guide pages with steps of the web application with all group members.

(2022/08/21 – 2022/08/31)

Workload completed for the week

Completed workload	Completed individual component.
	Create covid-19 application page.

(2022/09/01 – 2022/09/08)

Workload completed for the week

Completed workload	Integrate UI with frontend and backend Covid-19.
	Set the application to get data from the firebase real-time database.
	Progress meeting with the supervisor.

(2022/09/09 – 2022/09/23)

Workload completed for the period

Completed workload	Submit the final report draft document
	Continue development of the application.
	Get supervisor & co-supervisor feedback.

(2022/09/24 – 2022/09/30)

Workload completed for the week

Completed workload	Final report creation.
	Continue development of the application (frontend and backend)

(2022/10/01 – 2022/10/09)

Workload completed for the week

Completed workload	Test the application backend and frontend separately and fix some issues.
	Create a presentation for PP2.
	Arrange a meeting with a supervisor and show a demonstration of the PP2.

Monday, October 10, 2022

TI

Thennakoon T M B C K it18077698   10/9 11:53 PM
Dear Sir,

This is our presentation that including with demo videos. And also we make mistakes that you mentioned while doing our presentation. We uploaded

See more

📑 PP2 presentation 2022-143.pptx   ...
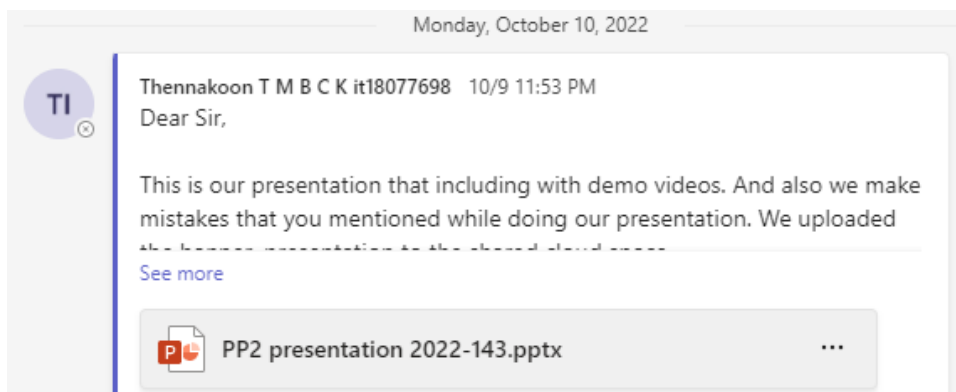
(2022/10/10)

Workload completed for the day

Summary	Proposal presentation 2 (90%)

(2022/10/11 – 2022/10/18)

Workload completed for the week

Completed workload	Adding testing – Individual component.
	Making relevant images for application.

(2022/10/19 – 2022/10/31)

Workload completed for the period

Completed workload	Completed and submitted the project's final report.
	Started developing the web assessment for our study project.
	Complete the project logbook and status document 2.

**(2022/11/01 – 2022/11/08)**

Workload completed for the week

Completed workload	Continue developing the web assessment that details our study endeavor.
	Use a web application to test the implemented device in a real-world setting. (Commercialization)

(2022/11/09 – 2022/11/16)

Workload completed for the week

Completed workload	Make the final presentation and thoroughly rehearse it with the crew.
	Before taking part in the final viva, schedule a meeting with the supervisor and present the proposal.
	Fill out the online application with some designs.
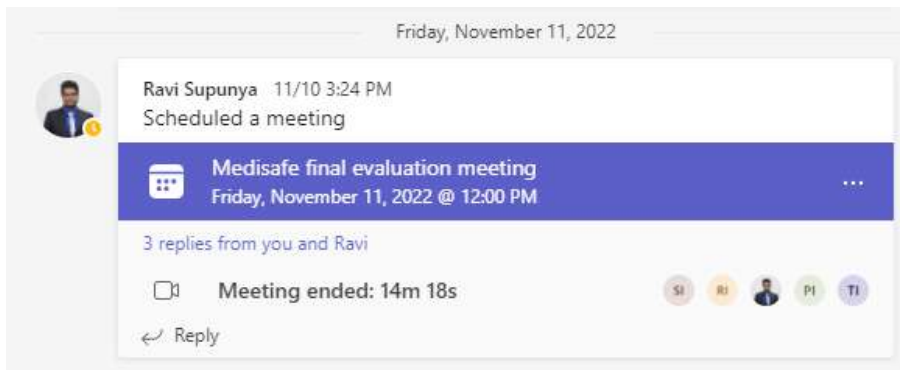
(2022/11/17 – 2022/12/01)

Workload completed for the period

Completed workload	Final report proofreader submission