# MEDISAFE - STAY AWAY AND DEFEAT DISEASE

Project Id: 2022 - 143

## Project Logbook

Rasuni Wageesha H.A

IT19015040

Department of Information Technology

Sri Lanka Institute of Information Technology

Sri Lanka

November 2022
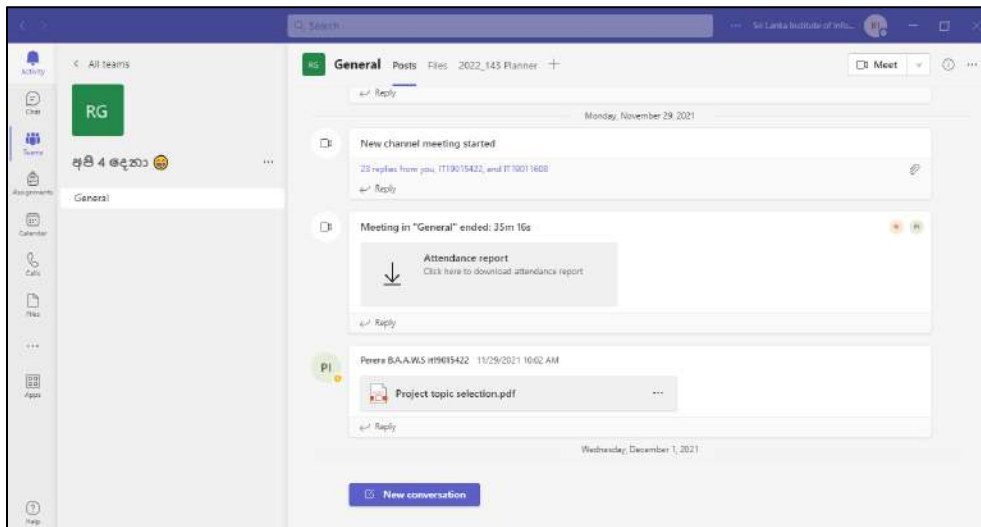
# One-year workload completion

(2021/12/02) – Meeting 01

Meeting with Supervisor

| Summary | Attend for meeting to select the research topic and discuss the individual components. |
|---|---|

(2021/12/03 – 2021/12/27)

Workload completed for the month

| Completed workload | Referred related research papers for selected individual component. |
|---|---|
| | Prepared small document for topic |

(2021/12/28)

Workload completed for the day

| Summary | **Topic Evaluation form submission** |
|---------|--------------------------------------|

(2022/12/29 – 2022/01/16)

Workload completed for the above period

| Completed workload | Read research papers. |
|--------------------|-----------------------|
| | Tried to find the lung dataset on Keggale(COVID-19,pheumonia and lung opacity) |
| | **Submit the project charter.** |

(2022/01/17)

Workload completed for the day

| Summary | Progress of the individual component. |
|---------|---------------------------------------|

(2022/01/18 – 2022/01/31)

Workload completed for the above period

| Completed Workload | Prepared the drafted proposal presentation. |
| --- | --- |
| | Practise for proposal presentation. |
| | **Submit Project Proposal Report Draft** |

(2022/02/01)

Workload completed for the day

| Summary | **Project Proposal Presentation** |
| --- | --- |

(2022/02/02 – 2022/02/11)

Workload completed for the above period

| Completed workload | Learned hoe to set up environment to develop the project. |
| --- | --- |
| | Setup the environment to develop the project. (Install vs-code ide, install virtual environment, create an environment, install flask, anaconda). |
| | Install necessary libraries. |
| | Modified the individual project proposal. |
| | Learned the CNN related videos and tutorials. |
| | **Submit Final Project Proposal Report Individual** |

(2022/02/12 – 2022/02/28)

Workload completed for the above period

| Completed workload | Discuss about the individual component implementation. |
|---|---|

(2022/03/01 – 2022/03/06)

Workload completed for the week

| Completed workload | Meet external supervisor. (doctor) |
|---|---|
| | Select the dataset of X ray images from keggale.(COVID-19,pheumonia and lung opacity) |

(2022/03/07 – 2022/03/14)

Workload completed for the week

| Completed workload | Learn image processing tutorials and lessons. |
|---|---|
| | Learn how to train X ray images. |

(2022/03/15 – 2022/03/21)

Workload completed for the week

| Completed workload | Finalized the image set and trained images. 32 images are trained at a time. |
|---|---|
| | All the images resize and trained images in Google colab. |
| | To check the plot exactly classes converting to the labels. |
| | Test and training data shuffle. |
| | Pre-processing. |

(2022/03/22 – 2022/03/31)

Workload completed for the above period

| Completed workload | Research project progress update. |
|---|---|

(2022/04/01 – 2022/04/15)

Workload completed for the period

| | Discussed about trained X ray images accuracy. |
|---|---|
| Completed workload | Co-supervisor's meeting |
| | Meet external supervisor. (doctor) |
| | Started backend part of lung disease identification using image processing. |

(2022/04/16 – 2022/04/24)

Workload completed for the period

| | GitLab account create. |
|---|---|
| | Normalized the data. |
| Completed workload | Mapped the normalized data and train data. |
| | Create model of normalized dataset. (Conv2D). To get the kernel and get their convolutional layer. |

(2022/04/25 – 2022/04/30)

Workload completed for the week

| Completed workload | Get the images input value in one set and relevant output. After getting the data in map. Confidence wise. |
| | Image converts to the tense of matrix set. |
| | Processing images RGB value. |

(2022/05/01 – 2022/05/10)

Workload completed for the period

| Completed workload | Generate the confidence level of affected lung diseases. |
| | Update GitLab. |
| | Co-supervisor's meeting |
| | Completed backend individual part. |

(2022/05/11 – 2022/05/23)

Workload completed for the period

| Completed workload | Prepared presentation slides. |
| | Meet external supervisor. (doctor) |
| | Prepared status document. |
| | Supervisor's meeting before the 50% presentation |
| | **Submit Project Status Document 1** |

(2022/05/24)

Workload completed for the day

| Summary | **Progress Presentation (I) 50%** |
|---------|-----------------------------------|

(2022/05/25 – 2022/05/31)

Workload completed for the period

| Completed workload | Supervisor's meeting after the final panel feedback. |
|---|---|
| | Started frontend part of lung diseases. |
| | Wire frame designing. |
| | Follow react tutorials. |

(2022/06/01 – 2022/06/11)

Workload completed for the period

| Completed workload | Follow react of YouTube videos. |
|---|---|
| | Install npm for React. |
| | Refer React materials. |
| | Continuous wire frame design. |

(2022/06/11 – 2022/06/18)

Workload completed for the week

| Completed workload | Completed wire frame design. |
|---|---|
| | Refer React materials. |
| | Learn file handling parts. |

(2022/06/19 – 2022/06/25)

Workload completed for the week

| Completed workload | Start the frontend parts. |
| --- | --- |
| | Continue frontend part of individual component. |
| | Continue the frontend part of individual component. |

(2022/06/26 – 2022/07/02)

Workload completed for the period

| Completed workload | Started to write the research paper. |
| --- | --- |
| | Co-supervisor's meeting of research paper writing. |
| | ICITR2022 research paper writing. |

(2022/07/03 – 2022/07/17)

Workload completed for the period

| Completed workload | Continued of research paper. |
| --- | --- |
| | Designed flow chart. |
| | Design UML diagram. |

(2022/07/18 – 2022/07/31)

Workload completed for the period

| Completed workload | Identify for the suggestions of the lung diseases. |
| | Refer some papers to suggestions. |
| | Start implementing suggestion providing. |
| | **Submit research paper ICITR2022** |
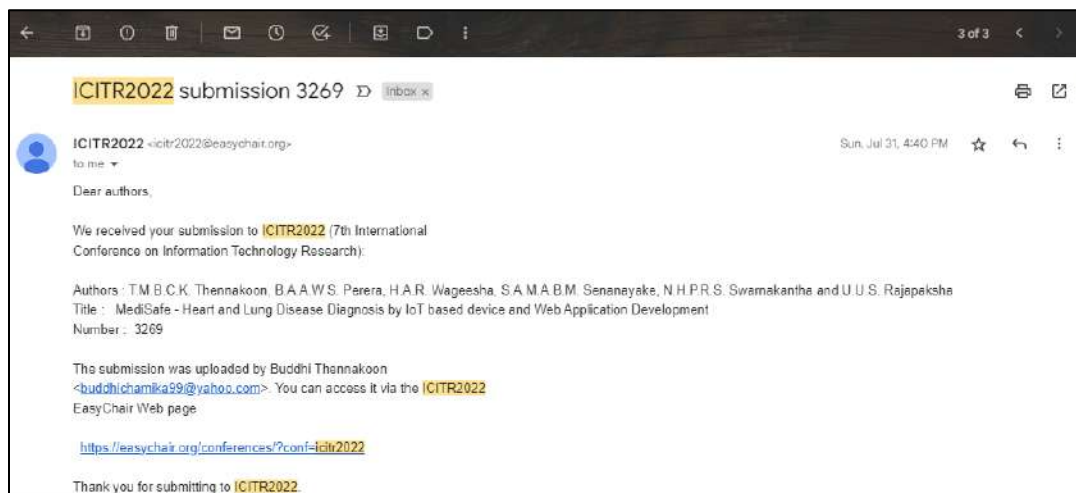


(2022/08/01 – 2022/08/13)

Workload completed for the period

| Completed workload | Modified the research paper sections according to the supervisor's comments. |
| | ICAC research paper writing. |

(2022/08/14 – 2022/08/20)

Workload completed for the week

| Completed workload | Co-supervisor's meeting |
|---|---|
| | Continued of research paper. |

(2022/08/21 – 2022/08/31)

Workload completed for the week

| Completed workload | Continued of research paper. |
|---|---|
| | Completed suggestions provide. |
| | Continue frontend part of individual component. |
| | **ICAC paper submission.** |

(2022/09/01 – 2022/09/08)

Workload completed for the week

| Completed workload | Prepared final report draft writing. |
|---|---|
| | Google form created of individual component. |
| | Prepared final report group draft writing. |
| | Progress of the individual components of the project. |
| | Feedback for final drafted individual report. |

(2022/09/09 – 2022/09/23)

Workload completed for the period

| Completed workload | Continuation of writing the final report - Individual. |
|---|---|
| | **Submit Final Report Draft** |

(2022/09/24 – 2022/09/30)

Workload completed for the week

| Completed workload | Continuation of writing the final report - Individual. |
|---|---|

(2022/10/01 – 2022/10/09)

Workload completed for the week

| Completed workload | Supervisor's meeting before the progress presentation (II) |
|---|---|
| | **Submit Final Report CDAP Individual** |
| | **Submit Final Report CDAP Group** |
| | **poster submit** |
| | Tried to integrate the system together. |

(2022/10/10)

Workload completed for the day

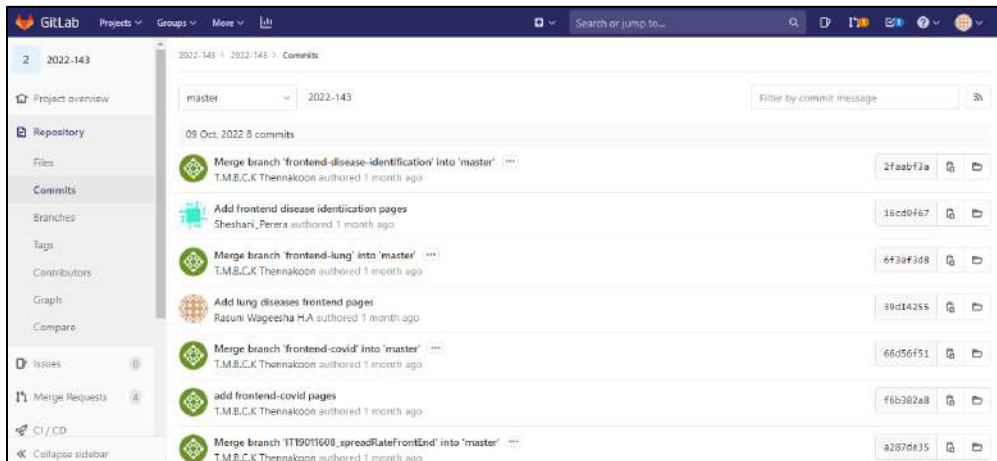| Summary | **Progress Presentation (II) 90%** |
|---------|------------------------------------|

(2022/10/11 – 2022/10/18)

Workload completed for the week

| Completed workload | Website designing. |
|--------------------|--------------------|
|  | Re designed UIs of the system |
|  | Meet external supervisor. (doctor) |

(2022/10/19 – 2022/10/31)

Workload completed for the period

| Completed workload | Completed GitLab repositories. |
|--------------------|--------------------------------|

(2022/11/01 – 2022/11/08)

Workload completed for the week

| Completed workload | Prepared the final presentation. |
|---|---|
| | Test the integrated system. |

(2022/11/09 – 2022/11/16)

Workload completed for the week

| | |
|---|---|
| Completed workload | Prepared the status document |
| | Prepared a logbook. |
| | Supervisor's meeting before the Final presentation. |
| | **Submit Status document 2** |
| | **Submit Logbook** |
| | **Submit Website assessment** |
| | **Final Presentation and Viva** |

(2022/11/17 – 2022/12/01)

Workload completed for the period

| Completed workload | Final Report (proofread) |
|---|---|