

MEDISAFE - STAY AWAY AND DEFEAT DISEASE

2022 - 143

Project Status Document 2 - Individual

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Specializing in Information Technology

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Sri Lanka Institute of Information Technology
Sri Lanka

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Declaration

I declare that this is my own work and this proposal does not incorporate without acknowledgement 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 acknowledgement is made in the text.

Name	Student Id	Signature
Perera B.A.A.W.S	IT19015422	

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

.....
Signature of the Co-Supervisor

.....
Date

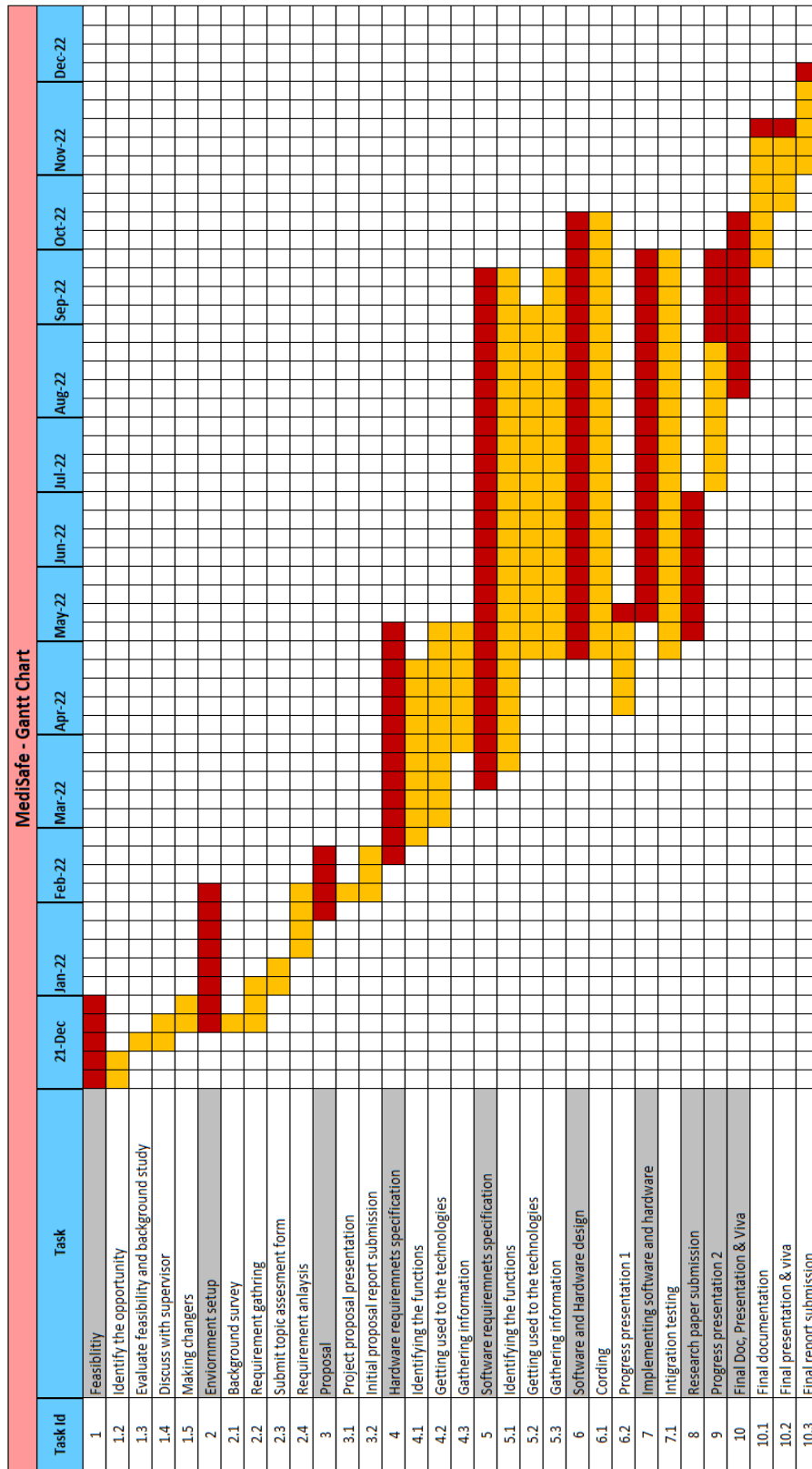
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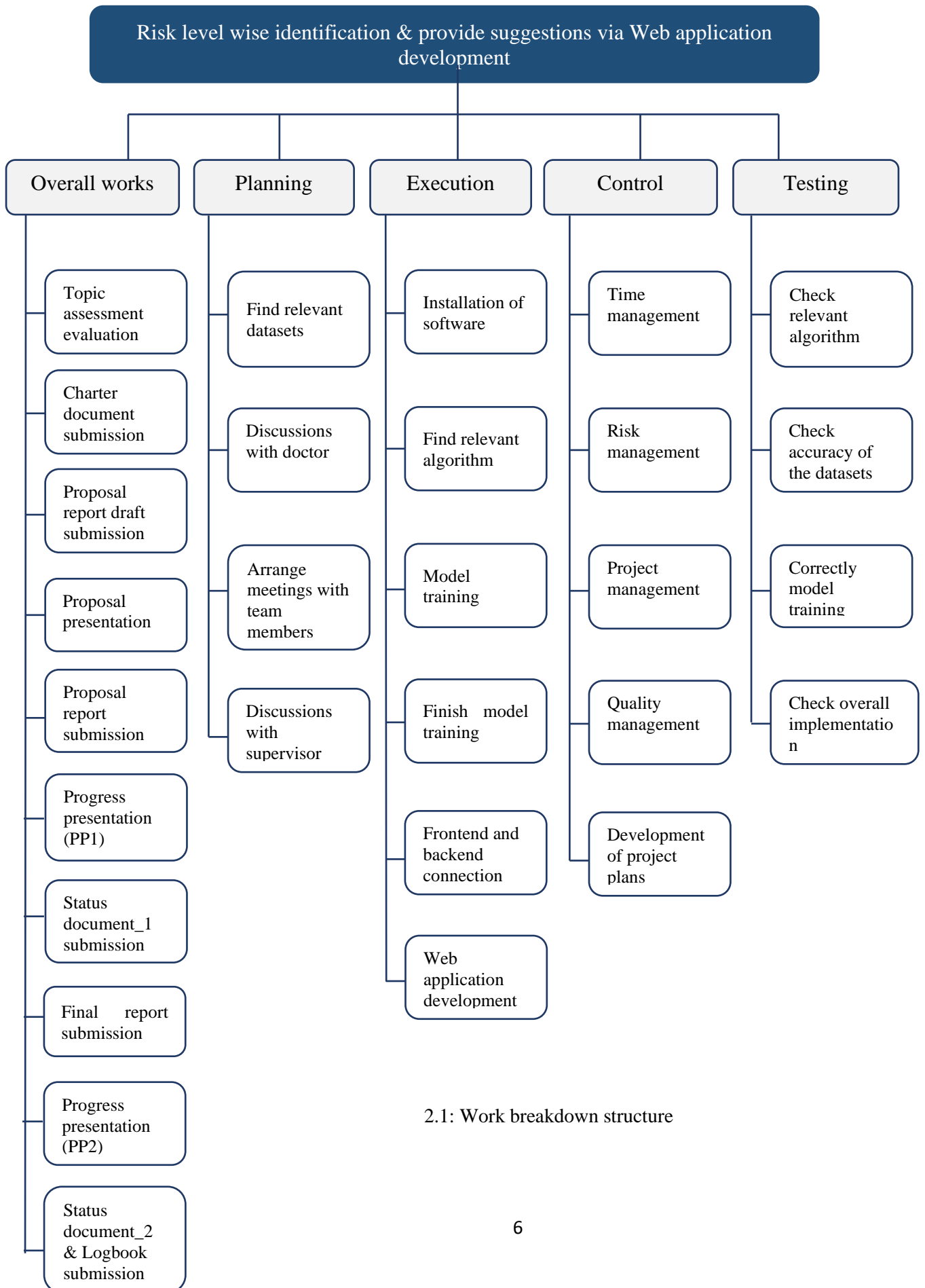
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1. Updated Gantt chart



1.1: Updated Gantt chart

2. Work breakdown structure



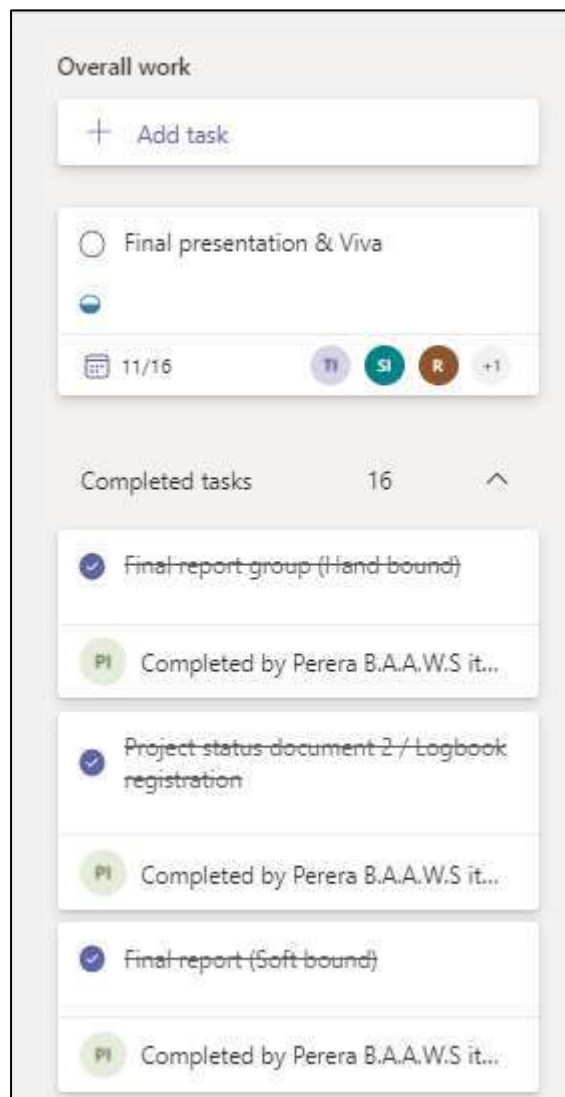
2.1: Work breakdown structure

3. Project management tool

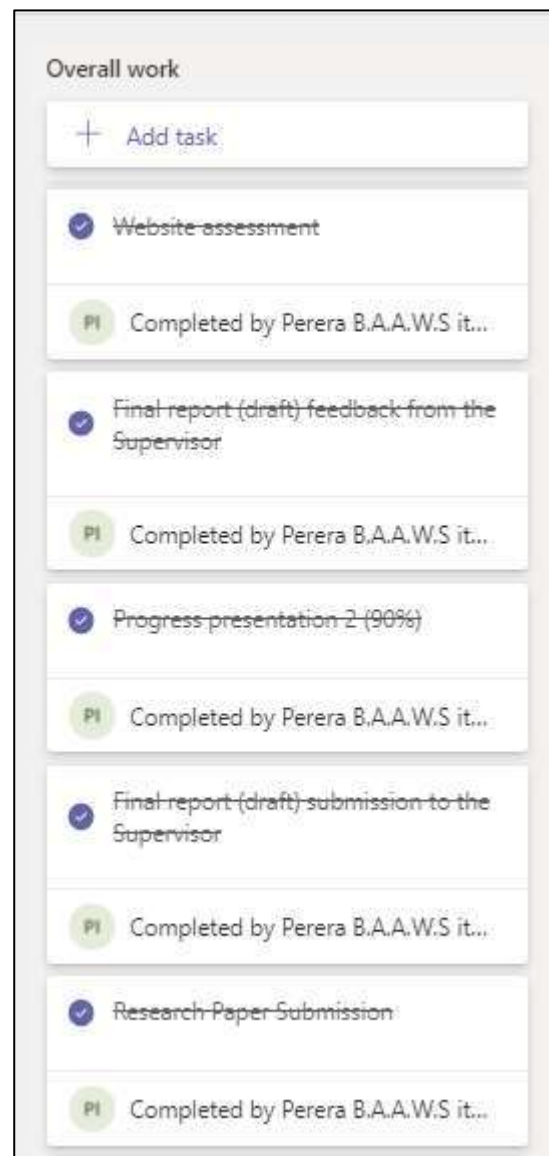
3.1 Microsoft teams

➤ Project milestones

- Main milestone



01



02

3.1: Main milestone_1

Overall work

+ Add task

✓ Status document 1 submission

PI Completed by Perera B.A.A.W.S it...

✓ Progress presentation 1 (50%)

PI Completed by Perera B.A.A.W.S it...

✓ Proposal report submission

PI Completed by Perera B.A.A.W.S it...

✓ Proposal presentation

PI Completed by Perera B.A.A.W.S it...

✓ Proposal report draft submissions

PI Completed by Perera B.A.A.W.S it...

03

Overall work

+ Add task

✓ Proposal presentation

PI Completed by Perera B.A.A.W.S it...

✓ Proposal report draft submissions

PI Completed by Perera B.A.A.W.S it...

✓ Charter document submission

PI Completed by Perera B.A.A.W.S it...

✓ Approved topic assessment submission

PI Completed by Perera B.A.A.W.S it...

✓ Topic assessment form submission

PI Completed by Perera B.A.A.W.S it...

04

3.2: Main milestone_2

- **Individual milestone**

Amindi - IT19015422

+ Add task

○ Ready for the final viva (100%)

11/14

PI

Completed tasks 20 ^

✓ Complete final report

PI Completed by Perera B.A.A.W.S it...

✓ Testing

PI Completed by Perera B.A.A.W.S it...

✓ Integrate the components together

PI Completed by Perera B.A.A.W.S it...

✓ Finish the component

PI Completed by Perera B.A.A.W.S it...

✓ Check the implemented component

PI Completed by Perera B.A.A.W.S it...

Amindi - IT19015422

+ Add task

✓ Start implementing suggestion providing

PI Completed by Perera B.A.A.W.S it...

✓ Identify the suggestion for the diseases

PI Completed by Perera B.A.A.W.S it...

✓ Meet the doctor

PI Completed by Perera B.A.A.W.S it...

✓ Refer materials related to the relevant diseases (Self study)

PI Completed by Perera B.A.A.W.S it...

✓ Design wireframe designing for the web application

PI Completed by Perera B.A.A.W.S it...

✓ Continue dataset training

PI Completed by Perera B.A.A.W.S it...

Amindi - IT19015422

+ Add task

✓ Meet the doctor

PI Completed by Perera B.A.A.W.S it...

✓ Start training dataset

PI Completed by Perera B.A.A.W.S it...

✓ Meet the doctor

PI Completed by Perera B.A.A.W.S it...

✓ Find suitable machine learning technique to train the model

PI Completed by Perera B.A.A.W.S it...

✓ Collect relevant data sets

PI Completed by Perera B.A.A.W.S it...

✓ Meet the Doctor

PI Completed by Perera B.A.A.W.S it...

✓ Study the research paper

PI Completed by Perera B.A.A.W.S it...

✓ Select relevant research paper to follow

PI Completed by Perera B.A.A.W.S it...

✓ Find research papers related to my component

PI Completed by Perera B.A.A.W.S it...

3.3: Individual milestone completion

➤ Task analysis



3.4: Task analysis

3.2 GitLab usage

- **Project Overview**

The screenshot shows the GitLab Project Overview page for project 2022-143. At the top, there's a header with the project ID 2022-143, a lock icon, and a 'Leave project' link. Below this, statistics show 11 Commits, 9 Branches, 0 Tags, and 22.1 MB Files. The project name 'MediSafe' is displayed. A progress bar is visible. Below the progress bar, there's a dropdown menu for 'master' and a button to '+'. To the right are buttons for 'History', 'Find file', 'Web IDE', and 'Clone'. A merge request is shown: 'Merge branch 'frontend-disease-identification' into 'master'' by T.M.B.C.K Thennakoon, authored 1 week ago, with commit hash 2faabf3a. Below this, there's a 'README' button and a license notice: 'No license. All rights reserved'. A table lists the project's files and folders:

Name	Last commit	Last update
📁 covid	add the device implementation files	5 months ago
📁 medi-safe	Add frontend disease identification pages	1 week ago
📄 README.md	Update README.md	7 months ago

3.5: Project overview

- **Project members**

The screenshot shows the GitLab Project Members page for project 2022-143. At the top, there's a header with the project name 'Members of 2022-143' and a search bar 'Find existing members by name'. To the right is a 'Sort by' dropdown menu set to 'Name, ascending'. Below this, a list of project members is shown:

Member	Role	Access
Perera B.A.A.W.S @IT19015422_Perera_B.A.A.W.S (It's you)	Developer	Given access 7 months ago - Expires in about 2 years
Rasuni Wageesha H.A @IT19015040_Rasuni_Wageesha_H.A	Developer	Given access 7 months ago - Expires in about 2 years
Ravi Supunya @Ravis	Reporter	Given access 7 months ago - Expires in about 2 years
RP Team @RPTeam	Reporter	Given access 6 months ago - Expires in about 2 years
Senanayaka S.A.M.A.B.M @IT19011608_Senanayaka_S.A.M.A.B.M	Developer	Given access 7 months ago - Expires in about 2 years
T.M.B.C.K Thennakoon @IT18077698_Thennakoon_T.M.B.C.K - 2022-143	Owner	Given access 7 months ago
Udugoda Uduporawage Samantha Kumara Rajapaksha @samantha	Reporter	Given access 7 months ago - Expires in about 2 years

3.6: Project members



- Created branches


Active branches					
▼ master	default	protected			
→ 2faabf3a	Merge branch 'frontend-disease-identification' into 'master' · 1 week ago				📄 ▼ 🗑
▼ frontend-disease-identification	merged				
→ 16cd9f67	Add frontend disease identification pages · 1 week ago				1 0 Merge request Compare 📄 ▼ 🗑
▼ frontend-covid	merged				
→ f6b382a8	add frontend-covid pages · 1 week ago				5 0 Merge request Compare 📄 ▼ 🗑
▼ frontend-Covid	merged				
→ e287de35	Merge branch 'IT19011608_spreadRateFrontEnd' into 'master' · 1 week ago				8 0 Merge request Compare 📄 ▼ 🗑
▼ IT19011608_spreadRateFrontEnd	merged				
→ 20d1a0c9	add frontend-spreadrate · 1 week ago				7 0 Merge request Compare 📄 ▼ 🗑

Stale branches					
▼ IT18077698_deviceImplementationAnalysis	merged				
→ be2e229e	add the device implementation files · 5 months ago				8 0 Merge request Compare 📄 ▼ 🗑
▼ IT19015040-lungDisease					
→ fdc9c755	Add lung diseases Files · 5 months ago				9 1 Merge request Compare 📄 ▼ 🗑
▼ IT19015422-diseaseAnalysis					
→ a551f995	Disease analysis files added · 5 months ago				9 1 Merge request Compare 📄 ▼ 🗑
▼ IT19011608-spreadRate					
→ 4d16f56a	Add spreadRate files · 5 months ago				9 1 Merge request Compare 📄 ▼ 🗑

3.7: Created branches


- **Repository files**




 Add frontend disease identification pages Sheshani_Perera authored 1 week ago			16cd9f67	
Name	Last commit	Last update		
..				
■ dashboard	Add lung diseases frontend pages	1 week ago		
■ disease1	Add frontend disease identification pages	1 week ago		
■ disease10	add frontend-covid pages	1 week ago		
■ disease11	add frontend-spreadrate	1 week ago		
■ disease2	Add frontend disease identification pages	1 week ago		
■ disease3	add frontend-covid pages	1 week ago		
■ disease4	Add lung diseases frontend pages	1 week ago		
■ disease5	add frontend-covid pages	1 week ago		
■ disease6	Add frontend disease identification pages	1 week ago		
■ disease7	Add frontend disease identification pages	1 week ago		
■ disease8	Add frontend disease identification pages	1 week ago		
■ disease9	Add lung diseases frontend pages	1 week ago		
📄 index.js	add frontend-spreadrate	1 week ago		

frontend-disease-...	2022-143 / medi-safe / src / pages / disease6	History	🔍 Find file	Web IDE	📄	Clone
/ +						
 Add frontend disease identification pages Sheshani_Perera authored 1 week ago						
📄 Disease6.jsx	Add frontend disease identification pages	1 week ago				
📄 Disease6.scss	Add frontend disease identification pages	1 week ago				
📄 index.js	Add frontend disease identification pages	1 week ago				


3.8: Repository files_1




frontend-disease-...
2022-143 / medi-safe / src / pages / disease8
History Find file Web IDE 16cd9f67 Clone


Add frontend disease identification pages
Sheshani_Perera authored 1 week ago
16cd9f67

Name	Last commit	Last update
..		
 Disease8.jsx	Add frontend disease identification pages	1 week ago
 Disease8.scss	Add frontend disease identification pages	1 week ago
 index.js	Add frontend disease identification pages	1 week ago

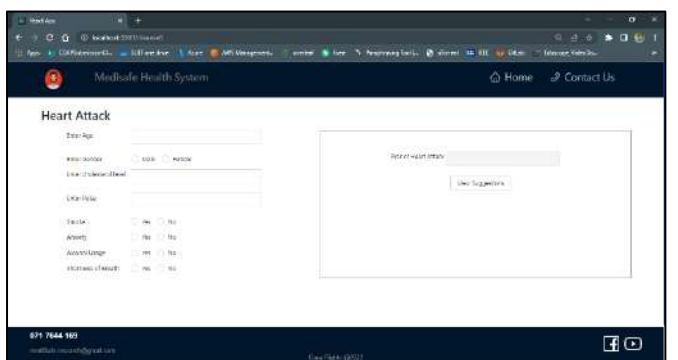
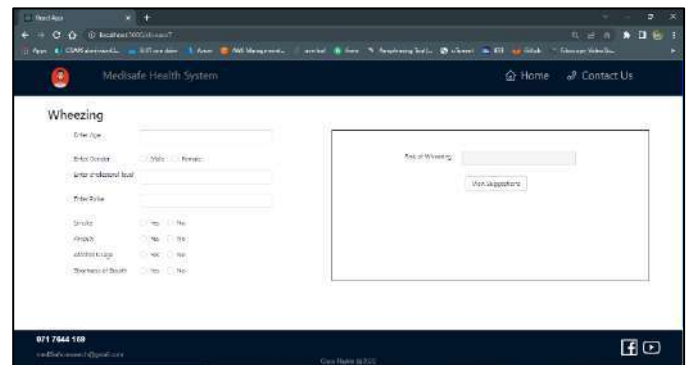
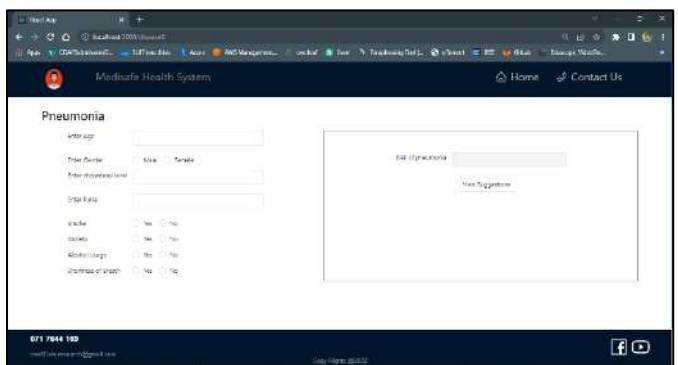
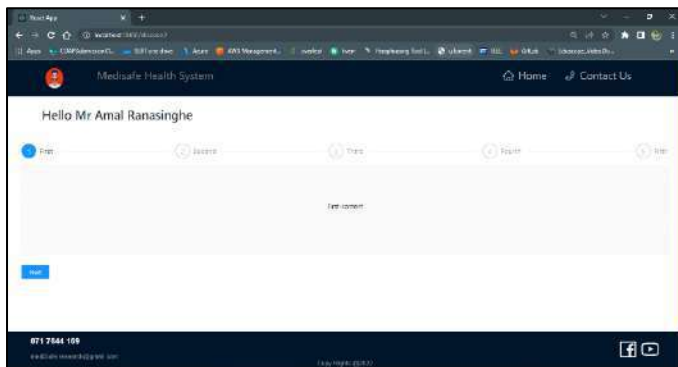
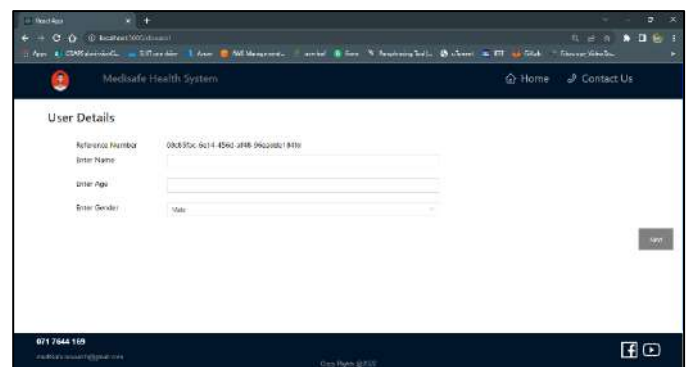
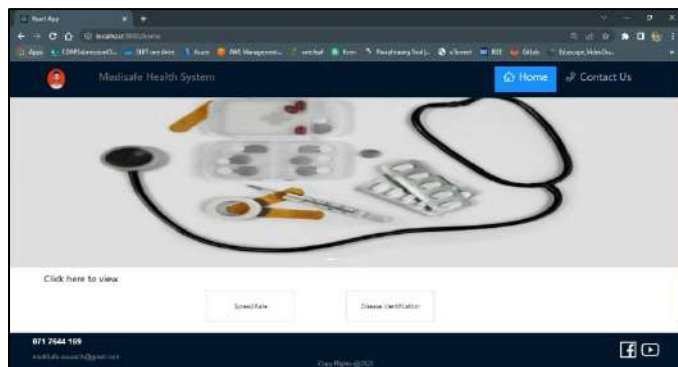
frontend-disease-...
2022-143 / medi-safe / src / pages / disease7
History Find file Web IDE 16cd9f67 Clone


Add frontend disease identification pages
Sheshani_Perera authored 1 week ago
16cd9f67

Name	Last commit	Last update
..		
 Disease7.jsx	Add frontend disease identification pages	1 week ago
 Disease7.scss	Add frontend disease identification pages	1 week ago
 index.js	Add frontend disease identification pages	1 week ago

3.9: Repository files_2

4. Test results & how system testes



4.1: Implemented web application interfaces

Risk of Heart Attack

High

View Suggestions

- Call 999 or your local emergency number.
 - Don't ignore the symptoms of a heart attack. If you can't get an ambulance or emergency vehicle to come to you, have a neighbour or a friend drive you to the nearest hospital. Drive yourself only if you have no other option. Because your condition can worsen, driving yourself puts you and others at risk.
- Chew and swallow an aspirin while waiting for emergency help.
 - Aspirin helps keep your blood from clotting. When taken during a heart attack, it could reduce heart damage. Don't take aspirin if you are allergic to it or have been told by your health care provider never to take aspirin.
- Take nitroglycerin, if prescribed.
 - If you think you're having a heart attack and your health care provider has previously prescribed nitroglycerin for you, take it as directed while waiting for emergency medical help.
- Begin CPR if the person is unconscious.
 - If the person isn't breathing or you don't find a pulse, begin CPR to keep blood flowing after you call for emergency medical help.
- Push hard and fast on the center of the person's chest in a fairly rapid rhythm — about 100 to 120 compressions a minute.
- If an automated external defibrillator (AED) is immediately available and

Risk of Wheezing

Low

View Suggestions

- Keep the air moist. Use a humidifier, take a warm, steamy shower, or sit in the bathroom with the door closed while running a hot shower.
- Drink something warm. It relaxes your airways and loosens sticky mucus.
- Don't smoke. And stay away from people who do.
- Follow your doctor's orders. Take your medicines according to the instructions.
- Do breathing exercises. They can help your lungs work better. Try these:
 - Pursed lip breathing. Breathe in through your nose. Breathe out for twice as long, with your lips pursed like you're going to whistle.
 - Belly breathing. Breathe in through your nose. Put your hands on your belly and pay attention to how it expands. Breathe out through your mouth for at least 2 to 3 times as long as you breathed in.
- Clean the air. Use an air cleaner with a HEPA filter. This will cut down on allergens that often lead to asthma attacks.

Risk of pneumonia

Low

View Suggestions

- Stay hydrated. Drink plenty of fluids, especially water, to help loosen mucus in your lungs.
- Take your medicine as prescribed. Take the entire course of any medications your doctor prescribed for you. If you stop taking medication too soon, your lungs may continue to harbor bacteria that can multiply and cause your pneumonia to recur.
- Check oxygen saturations and provide supplemental oxygen if saturations are <96%.
- Stop smoking — Smoking increases your risk for pneumonia and other health conditions. If you are a smoker, consider stopping.
- Get lots of rest. Rest will help your body fight the infection.
- Drink plenty of fluids. Fluids will keep you hydrated. They can help loosen the mucus in your lungs. Try water, warm tea, and clear soups.
- Use a cool-mist humidifier or take a warm bath. This will help clear your lungs and make it easier for you to breathe.

4.2: Output generation as a recommendation according to risk level

5. Documentation works

MediSafe – Heart and Lung Disease Diagnosis by IoT based device and Web Application Development

Abstract—Healthy people are an asset to a country. It is clear that it is one of the most valuable resources in the country compared to other resources. The health of the country's labor resources is a key factor in increasing the work world. Therefore, people's health depends on good health conditions. Therefore, it is very important for people to be healthy in order to maintain their capacity. The prevalence of heart and lung diseases is increasing along with global population growth. In the future, a system for early human health diagnosis will be required. The purpose of this study is to enable an individual to get an idea of his or her health status by retrieving data from a sensor device without having to go to the hospital and to provide an active packaging function through web development. Additionally, an X-ray examination of the patient is used to make the diagnosis and predict the disease's current state. Once the patient has been identified using these two techniques, a prescription is created for the identified condition and the closest pharmacies and hospitals.

Index Terms—Machine learning, Artificial neural network, Heart and lung diseases, Prescription, Symptoms and Western.

I. INTRODUCTION

In this competitive world, many people focus only on making money and do not care about their health. In such situations, due to activities like not doing proper exercise, irregular food intake, skipping bedtimes, working with high pressure at the workplace, and working for long periods of time, many non-communicable diseases have become victims [1]. In such cases, there is a risk of suffering from very severe and chronic diseases due to neglecting one's health condition in the future. As a result, in these situations, persons who are concerned about their health state in advance can reduce the potential harm caused by such problems and have a chance to speak with a doctor about their medical conditions. However, many people find it difficult to go to a doctor and receive an accurate diagnosis for their health condition due to their hectic schedules and poor time management [2], [3]. As the elderly age, they are more likely to develop chronic diseases. They also have difficulty accessing a hospital in such situations. Focusing on all these aspects, we were motivated to carry out our research under such a concept. With the development of new technologies in medicine, the above-mentioned issues have attracted the attention of many scientists, so they are working to find suitable solutions for these problems.

Based on factors including patient input, oxygen saturation, lung capacity and body temperature, the data obtained through the device developed here allows for diagnosis. Among the

diseases considered here, heart attack, pneumonia, asthma, lung cancer and coronavirus are given special attention. By using some technologies of machine learning to present a more accurate diagnosis by the data obtained by the above-mentioned equipment and by X-ray photographs, the diagnosis of diseases according to these judgments and a data prediction is made to get an idea about these diseases in the country at present. The presentation also takes place here.

The rest of this paper is organized as follows. In Section II, it describes the difference between the existing research with this research and new implementation. Section III proposes each member solution for the identified problems under some sub-topics. In Section IV, it shows some experimental results. Section V shows conclusions and finally Section VI describes future developments.

II. LITERATURE REVIEW

Non-communicable diseases (NCD: Heart Attack, Pneumonia, Wheezing, Lung cancer, Kidney diseases), such as kidney disease, heart disease, and lung disease, are a major factor in the number of reported premature deaths each year. 41 million people die each year from food-related causes, which is 71 percentage of all deaths globally. This happens as part of an international investigation on the causes of premature mortality. The use of tobacco, inactivity, diet, and other use, and following a unhealthy diet all cause the risk of dying from an NCD [4]. Studies show that as a result, one in five people pass away before their time. Ayurveda is a form of primary medicine that is based on India's traditional medical system. It aims to cure and remove the body, mind, and spirit through a holistic model that emphasizes food, herbal treatment, exercise, relaxation, and meditation. Western countries share findings about which medication will be most helpful to their patients based on systematic scientific examination. Known as evidence-based medicine, this strategy. Examples of evidence-based treatment approaches include prescribed medications, operations, injections, and other conventional treatments and therapies.

Figure 1: Leading causes of death 2010-2019

Figure 1: Leading causes of death 2010-2019

Figure 2: Willingness to use a device/web application.

Figure 2: Willingness to use a device/web application.

By considering all the above graphs, we are finding that getting help from the new proposed system without any region. Therefore, we took steps to focus our attention on that. The proposed system is to develop an IoT-based device that is connected to a web application. The device is made utilizing Arduino technology. The sensor data should be sent to the Firebase, and then the diseases should be analyzed according to the model training. Additionally, an image processing method will be employed to confirm the sickness that has been previously analyzed. Finally, the system will

provide a prediction via web application.

These are the things we consider about while conducting our research. The heart's contraction and relaxation are the main causes of the pulse. pulse reading. However, as it is affected by changes in blood flow and arterial diameter, it can be used in research for both cardiac and non-cardiac diseases. However, the ability to accurately examine pulses requires years of training and practice because it is a very unique and specialized talent. The outcome of the diagnosis is also influenced by the practitioner's own experience. The results of the diagnosis may differ among practitioners. Recent research into computerized pulse diagnosis has been conducted to overcome these limitations and make pulse assessment quantitative and objective. The researchers found a connection between pulse pulses and a number of distinct illnesses.

K-Nearest Neighbor (KNN) became one of the most widely used data mining techniques for pattern identification and classification tasks [7]. In order to enable comparisons with other data mining techniques applied to the same dataset, this research studies the application of KNN to the detection of heart and lung illness. It also looks into whether adding voting to KNN can improve the accuracy of pattern diagnosis. In this study, the use of KNN and voting in conjunction with data mining approaches for disease diagnosis is investigated. Besides, climate, pollution, many diseases, need mostly to implement the component (B). Rows, data, and columns make up the three main parts of a Pandas DataFrame. A Pandas DataFrame can be created using a variety of techniques. Usually, the DataFrame constructor is what users and provides the data, labels, and other metadata. Afterwards, the information can be shown as a two-dimensional list, tuple, or NumPy array.

Furthermore, it is emphasized that the examined data would be validated using image processing techniques. Deep learning and computer-aided medical imaging are subjects of increasing research. Medical photos have a limited amount of information that is unclear due to the high contrast and variable intensity values. Medical imaging calls for a precise and trustworthy algorithm [8]. Computers and trustworthy algorithms can be used to analyze chest X-rays in order to diagnose disease. According to numerous studies, the CNN (Convolutional Neural Network) algorithm is highly accurate at identifying heart and lung conditions from chest X-rays [10].

Machine learning is one of the sub-fields of artificial intelligence. Predictions can be made using machine learning. Machine learning also aids in the creation of various patterns. Calculations can be performed quickly using this method. Machine learning calculations are more accurate, faster to train, validate, and evaluate, and perform better than traditional physical calculations. ML has been used to make predictions in a variety of disciplines. And, for the most part, those forecasts have come to reality. Machine learning classifiers can be divided into three groups: Semi-supervised learning, Supervised learning and unsupervised learning.

5.1: Research Paper

CDAPSubmissionCloud

Private group

+ New Upload Share Copy link Sync Download Add shortcut to OneDrive Export to Excel

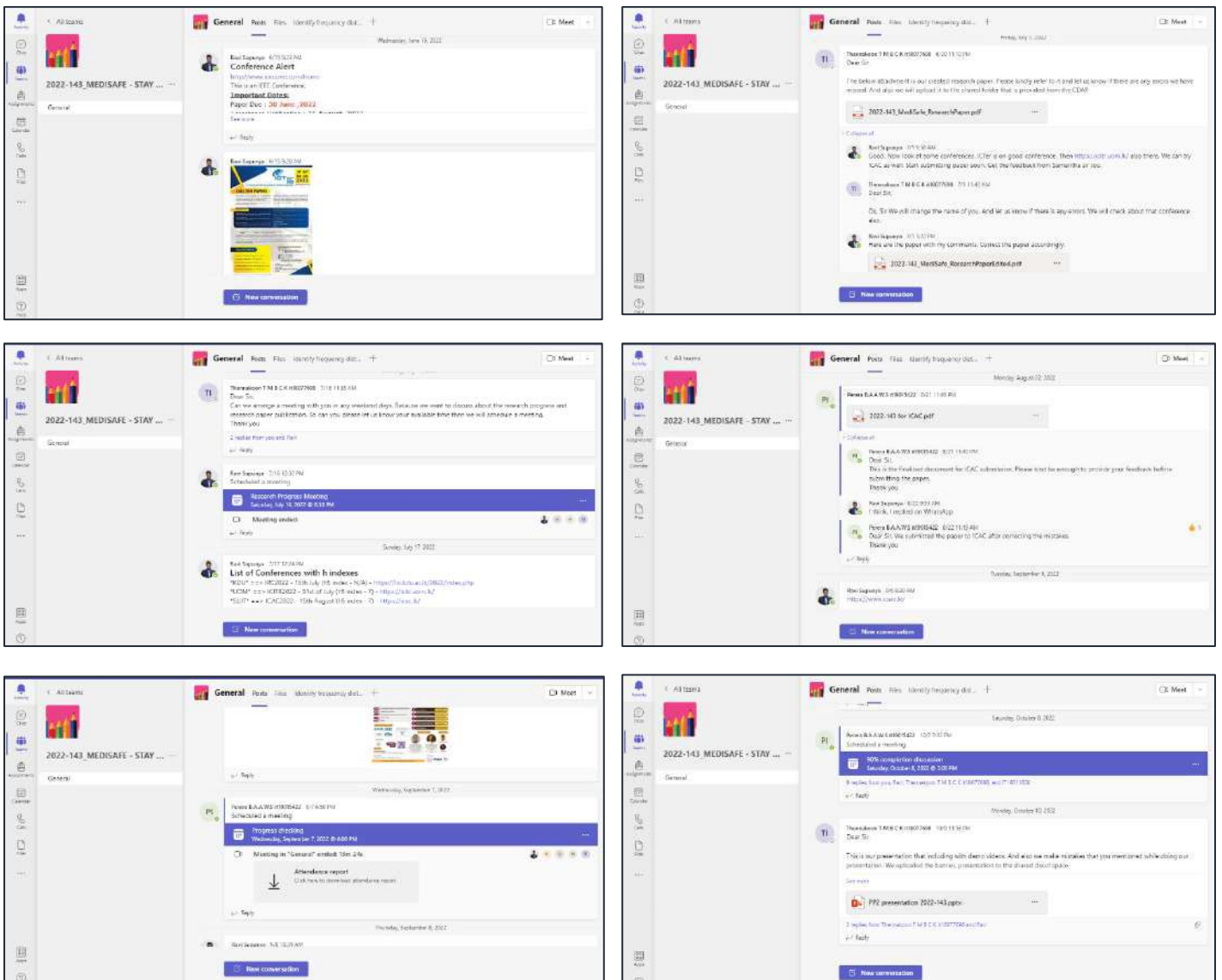
2022RegCloud > 2022-143-Students > 6. Final Report & Presentation > Final Reports

Name	Modified	Modified By
IT18077698_Final Report Thesis Draft_New.docx	October 10	Thennakoon T M B C K it18077698
IT19011608_Final Report Thesis Draft.docx	September 9	Seraniyayaka S.A.M.A.B.M. it19011608
IT19011608_Final Report Thesis New.docx	October 1	Seraniyayaka S.A.M.A.B.M. it19011608
IT19015040_Final Report Thesis Draft.docx	September 9	Rasuni Wageesha H.A. it19015040
IT19015040_Final Report Thesis New.docx	October 1	Rasuni Wageesha H.A. it19015040
IT19015422_Final Report Thesis Draft.docx	September 9	Perera B.A.A.W.S it19015422
IT19015422_Final Report Thesis New.docx	October 11	Perera B.A.A.W.S it19015422

5.2: Final report submissions

6. Appendixes


- Shared posts and meetings with Supervisors



6.1: Shared posts and meetings with supervisor

- Shared posts and meetings with Co- Supervisors


Samantha Rajapaksha <samantha.r@slit.lk>
 8/20/2022 7:28 PM



To: Samantha Rajapaksha


[EXTERNAL EMAIL] *This email has been received from an external source – please review before actioning, clicking on links, or opening attachments.*


Dear All

Please join the today's meeting:

https://teams.microsoft.com/l/meetup-join/19%3ameeting_MDhkM2ExNjU0TA2ZS00MmlzLTJlMjYyZTM4MjEzZTUyY2Zi%40thread.v2/0?context=%7b%22Id%22%3a%2244e3cf94-19c9-4e32-96c3-14f5bf01391a%22%2c%22Oid%22%3a%2236343c2f-ed0e-451e-a4b0-a78e0cf2679b%22%7d

ICAC Resubmission meeting


Samantha Rajapaksha <samantha.r@slit.lk>
 9/4/2022 7:38 PM




To: Samantha Rajapaksha


[EXTERNAL EMAIL] *This email has been received from an external source – please review before actioning, clicking on links, or opening attachments.*

Dear All

Join the meeting today at 10.00 pm

https://teams.microsoft.com/l/meetup-join/19%3ameeting_NmRkNWl2ZTYtN2ViMC00NmNlTkYyZEtZlM2Dg2NzkxZmly%40thread.v2/0?context=%7b%22Id%22%3a%2244e3cf94-19c9-4e32-96c3-14f5bf01391a%22%2c%22Oid%22%3a%2236343c2f-ed0e-451e-a4b0-a78e0cf2679b%22%7d


Samantha Rajapaksha <samantha.r@slit.lk>
 8/7/2022 3:18 PM



To: Samantha Rajapaksha

[EXTERNAL EMAIL] *This email has been received from an external source – please review before actioning, clicking on links, or opening attachments.*


Dear All

Join today's meeting to discuss the research papers.
For those who have not joined, I will reduce the marks.

https://teams.microsoft.com/l/meetup-join/19%3ameeting_NmRkNWl2ZTYtN2ViMC00NmNlTkYyZEtZlM2Dg2NzkxZmly%40thread.v2/0?context=%7b%22Id%22%3a%2244e3cf94-19c9-4e32-96c3-14f5bf01391a%22%2c%22Oid%22%3a%2236343c2f-ed0e-451e-a4b0-a78e0cf2679b%22%7d



Proposal Report Correction


Samantha Rajapaksha <samantha.r@slit.lk>
 9/19/2022 8:39 AM



To: Thennakoon T.M.B.C.K. it18077695; Senanayaka S.A.M.A.B.M. it19011608; Rasuni Wageesha H.A. it19015040;...

[Save all attachments](#)

 IT18077695.pdf 1.17 MB	 IT19011608.pdf 1.04 MB
 IT19015040.pdf 977.46 KB	 IT19015422.pdf 832.54 KB

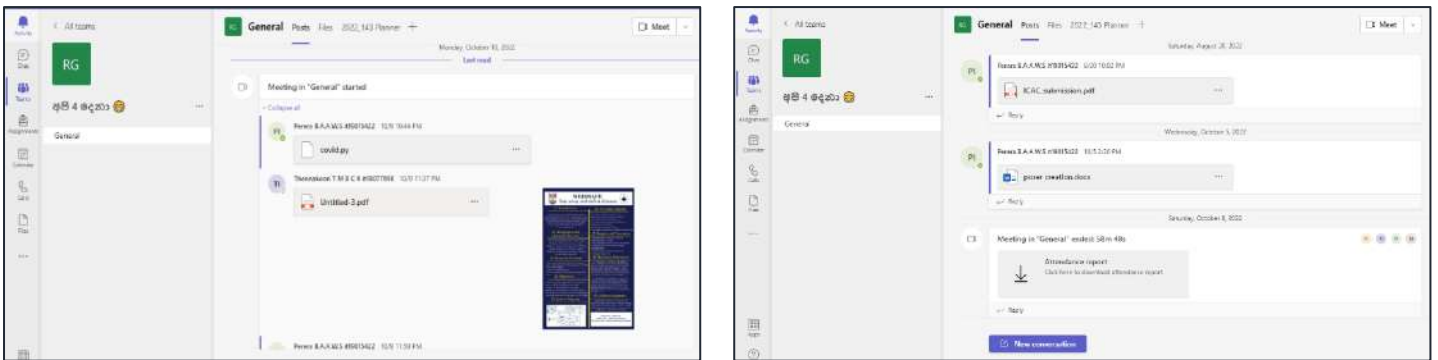
[EXTERNAL EMAIL] *This email has been received from an external source – please review before actioning, clicking on links, or opening attachments.*

Dear All

Please refer to the attached file to see the correction for the proposal report. Consider the comments when you are preparing a final report.

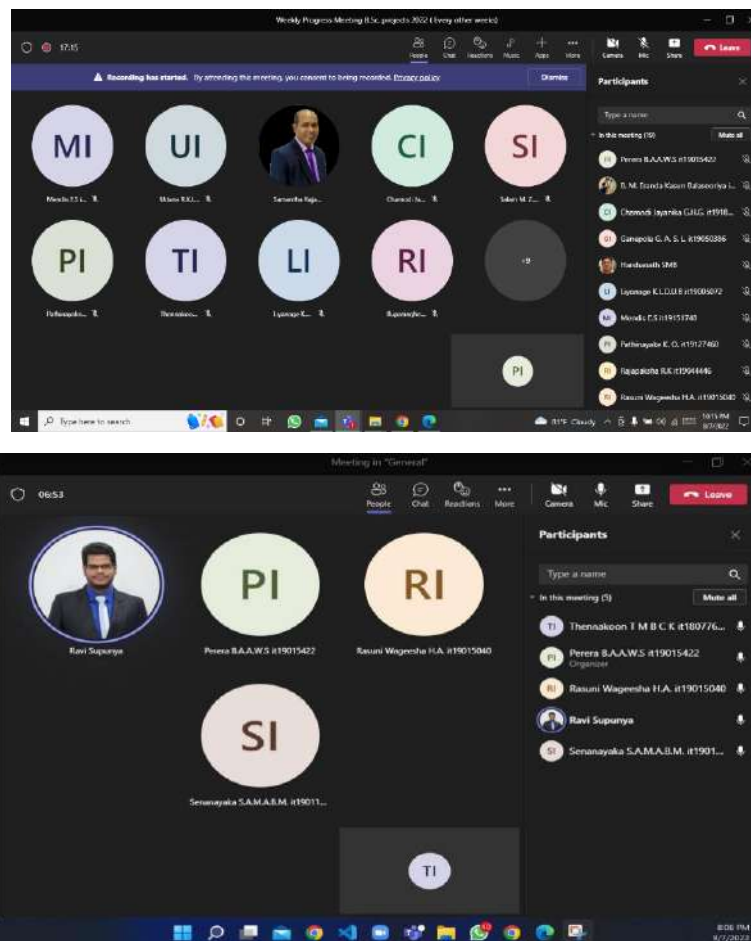
6.2: Shared emails from the Co- supervisor

- Shared posts and meetings with group members



6.3: Shared posts and meetings with group members

- Some snapshots of Meetings



6.4: Meetings with supervisors