# The Future of Ayurveda: Harnessing the Power of Artificial Intelligence for Personalized Treatment and Diagnosis

# Project Logbook

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B.Sc. (Hons) Degree in Information Technology specializing in Software

Engineering

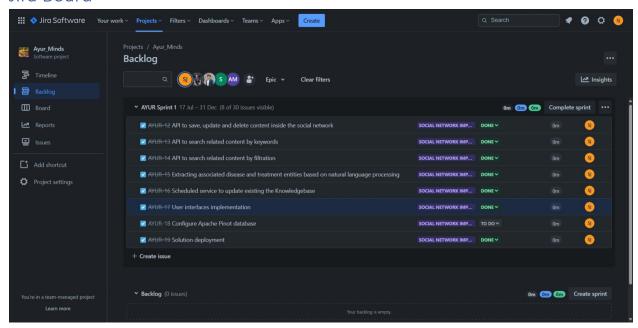
Department of Computer Science and Software Engineering

Sri Lanka Institute of Information Technology

Sri Lanka

September 2023

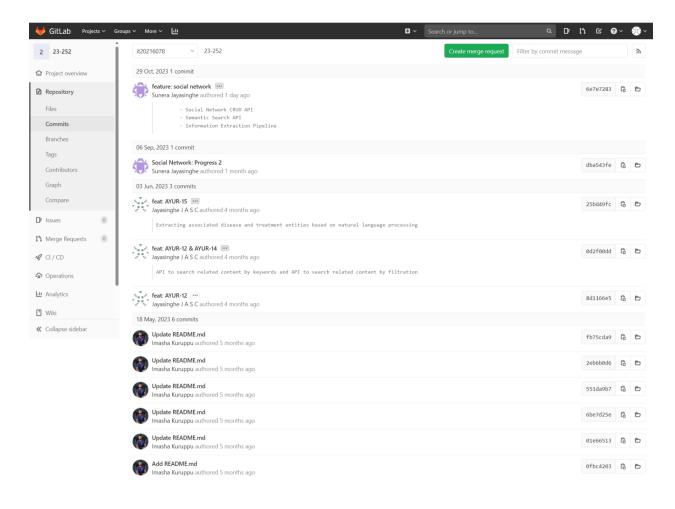
#### Jira Board

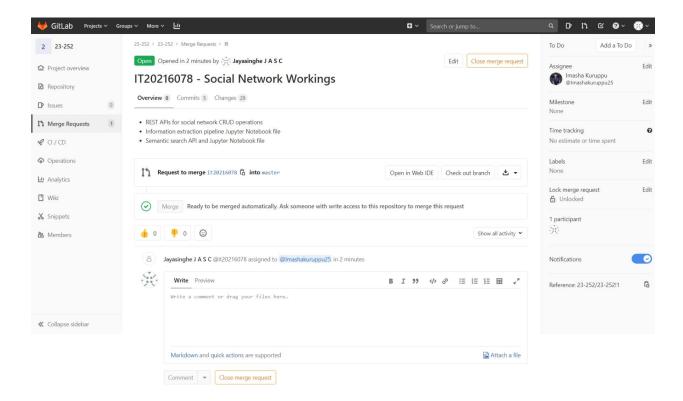


### **Gantt Chart**

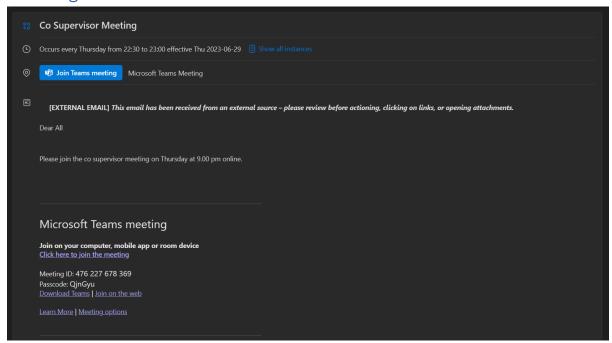
	February	March	April	May	June	July	August	September	October
API to save, update and delete content inside the social network									
API to search related content by keywords									
API to search related content by filtration									
Solution to extract related diseases and entities along with their relationships									
Scheduled service to update the existing Knowledge Base									
User interfaces implementation									
Solution deployment									

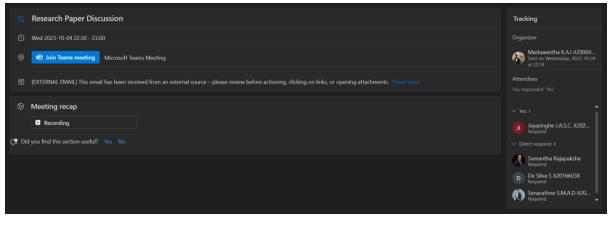
# GitLab History (23-252 / 23-252 · GitLab (sliit.lk))

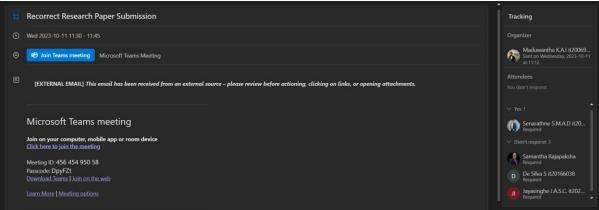


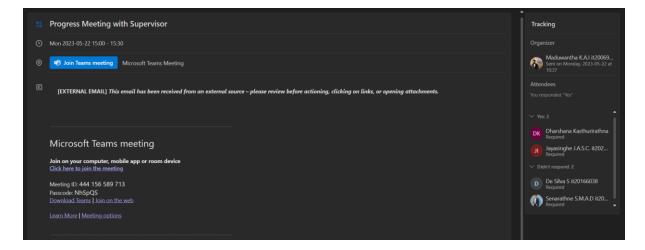


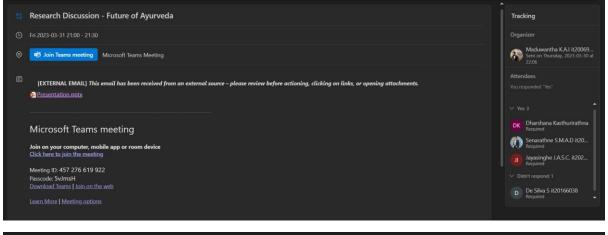
## Meetings and Conversations

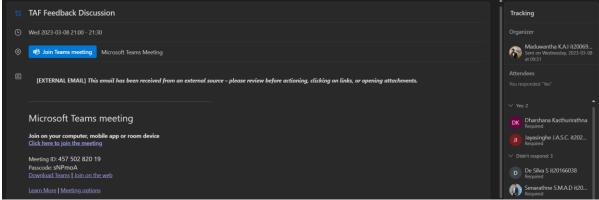


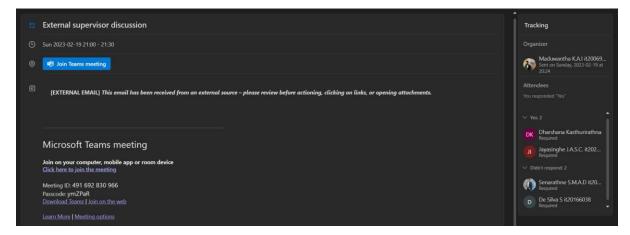


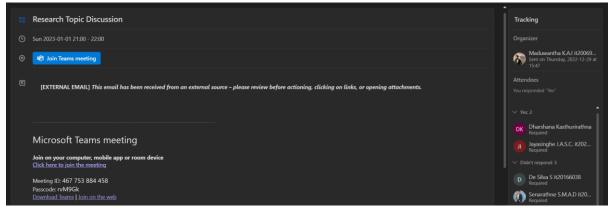


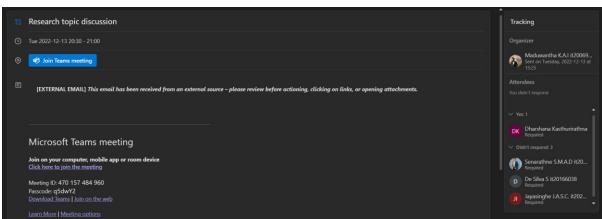


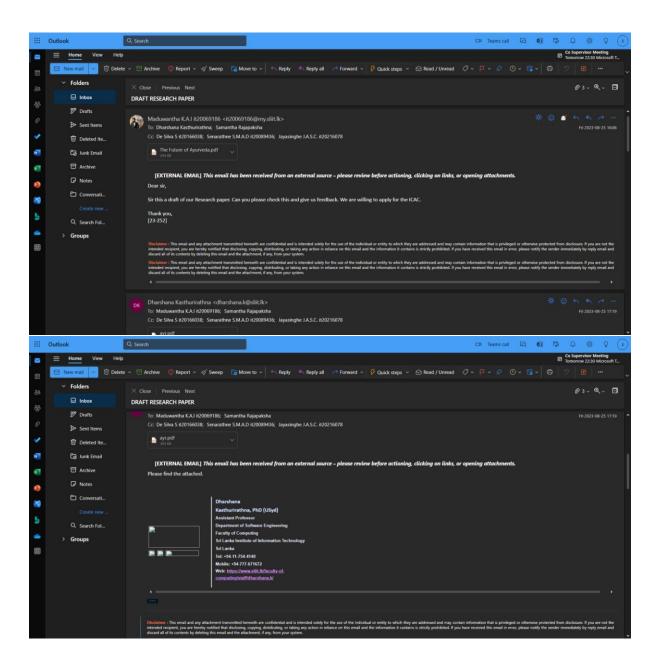


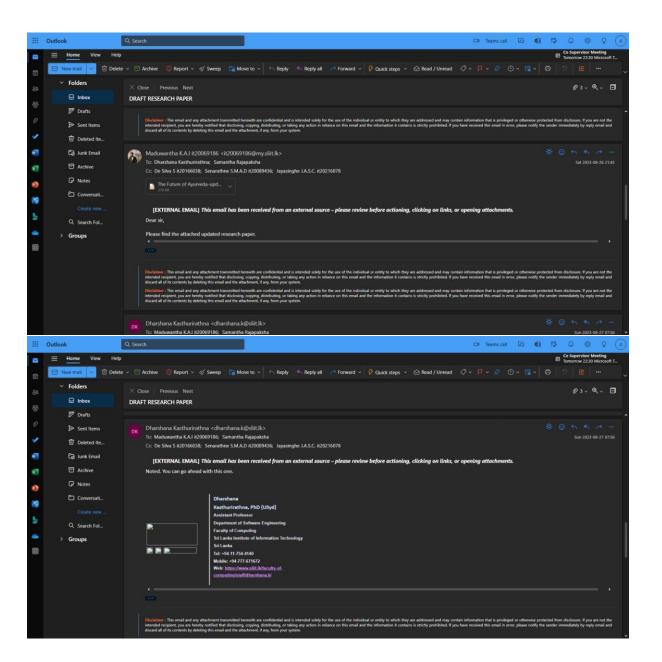












1st January 2023

18th January 2023

5th February 2023

#### Description

I presented my component research project to the supervisor and got some suggestions.

As the research area, I proposed implementing a social network that can ask questions and publish articles and try to identify duplicating content based on the BERT framework since I found some existing research for other deep learning approaches such as CNN, RNN, Word2Vec LSTM, and several machine learning existing approaches. Even though research has not been published explicitly on that, since such applications can be found on the internet commonly, I was additionally suggested to explore extracting knowledge from content and update the knowledge base that will be used for the chatbot implementation, which is a part of this research project.

I presented the research component again to the supervisor with suggested changes.

 We were asked to find an external supervisor with expertise and knowledge in Ayurvedic medicine since some research components related to that.

Discussed topic assessment form submission and checked with each other components among group members.

Date	Description
7 <sup>th</sup> February 2023	Discussed topic assessment form submission and
	checked with each other components among
	group members. Finished overall system
	architecture diagram.
12 <sup>th</sup> February 2023	Meet with the co-supervisor physically and
	present our research components. Since we still
	could not get the approval of an external
	supervisor, we were asked to meet with someone
	as the research proposal may be rejected due to
	that.
15 <sup>th</sup> February 2023	Meet with the external supervisor physically at
	Gampaha Wickramarachchi Indigenous Medical
	University to present our research components,
	explain our requirements, and get the signature
	for submitting the topic assessment form.
18 <sup>th</sup> February 2023	Meet with the supervisor physically to
	acknowledge the external supervisor's approval
	and get the signature for the topic assessment
	form.
19 <sup>th</sup> February 2023	Meet with the co-supervisor physically to
	acknowledge the external supervisor's approval
	and get the signature for the topic assessment
	form.
8 <sup>th</sup> March 2023	Meet with the supervisor to discuss topic
	assessment form feedback. We were asked to
	explicitly mention the improvements and findings
	we will do in each research component.

Date

31st March 2023

13th May 2023

21st May 2023

#### Description

Meet with the supervisor to discuss the research proposal submission and future work. Also, we were asked to maintain an online repository to store our workings.

Meet with the co-supervisor to discuss the progress of the research component. In the progress presentation slides, we were asked to mention the algorithms and findings worked on.

Presented research component progress to the cosupervisor physically.

N.M 8 L Rgg2 Dr. Saman 1 21/5/23

# LOG BOOK ( 1<sup>ST</sup> JUNE 2023 –31<sup>ST</sup> AUGUST 2023)

Date	Description		
1 <sup>st</sup> June 2023	Meet with the co-supervisor to discuss the progress of the research component. We were guided to work with the Overleaf application, which can be used to write research papers, and we were asked to start work on individual research papers.		
13 <sup>th</sup> June 2023	Meet with the group members to discuss the overall implementation's service architecture, user interfaces, and user experience.		
22 <sup>nd</sup> June 2023	Meet with the co-supervisor to discuss the progress of the research component and research paper writing progress.		
29 <sup>th</sup> June 2023	Meet with the co-supervisor to discuss the progress of the research component and research paper writing progress.		
30 <sup>th</sup> June 2023	Meet with the group members to finalize the overall implementation's service architecture, user interfaces, and user experience.		
6 <sup>th</sup> July 2023	Meet with the co-supervisor to discuss the progress of the research component and research paper writing progress. Our presented research papers showed some minor issues that can be enhanced.		
13 <sup>th</sup> July 2023	Meet with the co-supervisor to discuss the progress of the research component and research paper writing progress.		
13 <sup>th</sup> July 2023	Meet with the group members to discuss finished common implementations, which are user service and mobile app home page, and fix some raised issues.		
20 <sup>th</sup> July 2023	Meet with the co-supervisor to discuss the progress of the research component and research paper writing progress.		
22 <sup>nd</sup> July 2023	Meet with the group members to discuss the implementation progress of each component.		
10 <sup>th</sup> August 2023	Meet with the co-supervisor to discuss the progress of the research component and research paper writing progress.		
15 <sup>th</sup> August 2023	Meet with the group members to finalize and submit one of the written research papers for the ICAC conference.		
16 <sup>th</sup> August 2023	We have received an e-mail from our co-supervisor to combine our research components and write a single research paper. We started working on it.		
19 <sup>th</sup> August 2023	Meet with the supervisor physically to discuss the progress of the research component and combined research paper.		
27 th August 2023	Meet with the co-supervisor physically to discuss the progress of combined and individual research papers.		

Date	
All	
Supervisor Signature	
//	
Co-Supervisor Signature M. M. & K. R.	23/8/23

Date	Description
7 <sup>th</sup> September 2023	Meet with the co-supervisor to give an update
	about the project's progress.
28 <sup>th</sup> September 2023	Meet with the co-supervisor to give an update
	about the project's progress.
4th October 2023	Meet with the co-supervisor to discuss the
	feedback on the submitted paper to Hindawi
	Applied Computational Intelligence and Soft
	Computing journal. We were given guidance to
	work on the requested changes.
5 <sup>th</sup> October 2023	Meet with the co-supervisor to give an update
	on the progress of requested changes of the
	submitted journal paper.
11 <sup>th</sup> October 2023	Meet with co-supervisor to revise and again
	submit the paper with requested changes to
	Hindawi Applied Computational Intelligence and
	Soft Computing journal.
12 <sup>th</sup> October 2023	Meet with the co-supervisor to give an update
	about the project's progress.
19 <sup>th</sup> October 2023	Meet with the co-supervisor to give an update
	about the project's progress.