

# **“Application of Ontology-Based Veterinary Information Extraction for Cattle Skin Disease Diagnosis”**

**Project ID - TMP-2023-24-001**



## **Status Document - 1**

Name – Jayawardhana K.A.D.D.S

Registration Number – IT20651824

B.Sc. Special (Hons) in Information Technology Specializing in Software Engineering.

Department of Information Technology.

Sri Lanka Institute of Information Technology  
Sri Lanka

November 2023

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## 1. Introduction and Group Details

### 1.1 Introduction:

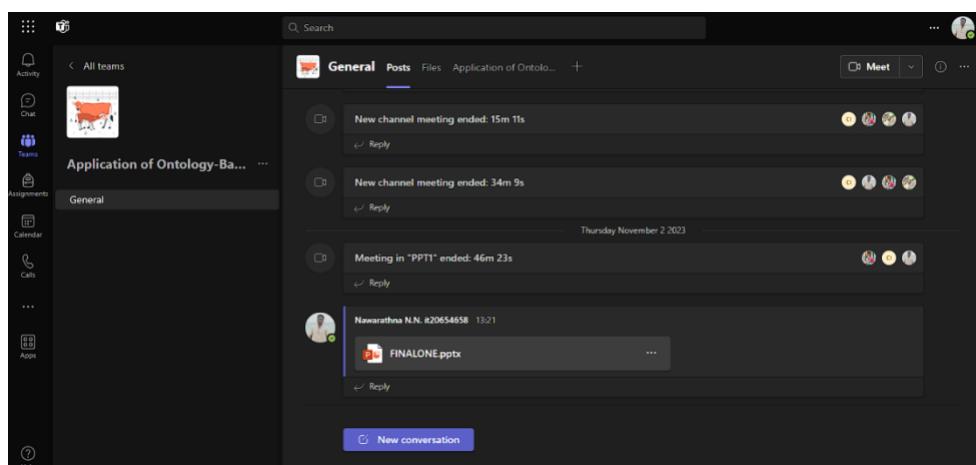
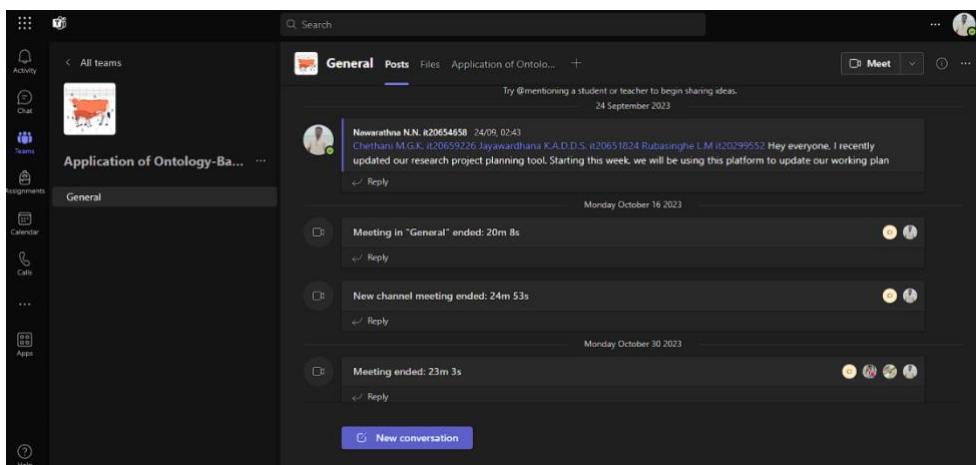
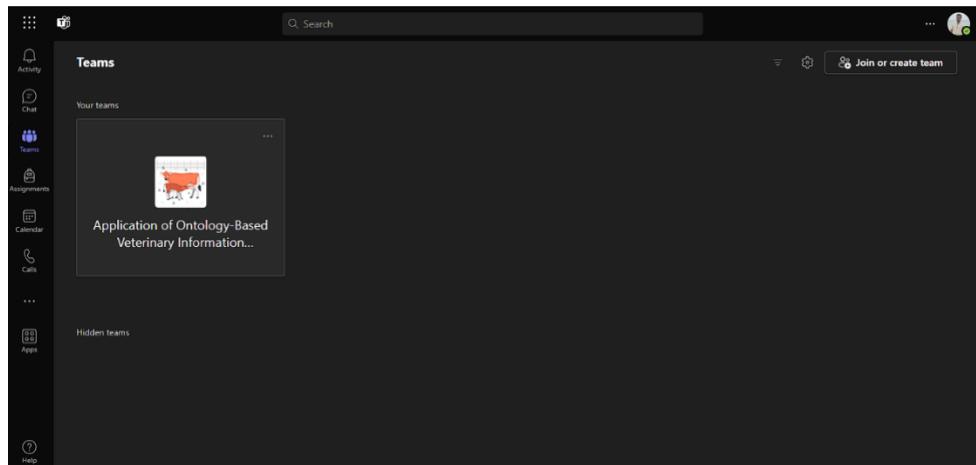
In the dynamic landscape of veterinary medicine, technological innovations have emerged as crucial tools for addressing the challenges faced by livestock industries. In this context, our research endeavours to revolutionize the diagnosis and management of cattle skin diseases through the integration of advanced technologies and domain-specific knowledge. Our research topic, "Application of Ontology-Based Veterinary Information Extraction for Cattle Skin Disease Diagnosis," encapsulates a multidimensional approach that harnesses the power of artificial intelligence (AI) and ontology-based information extraction to enhance the understanding and handling of cattle skin diseases.

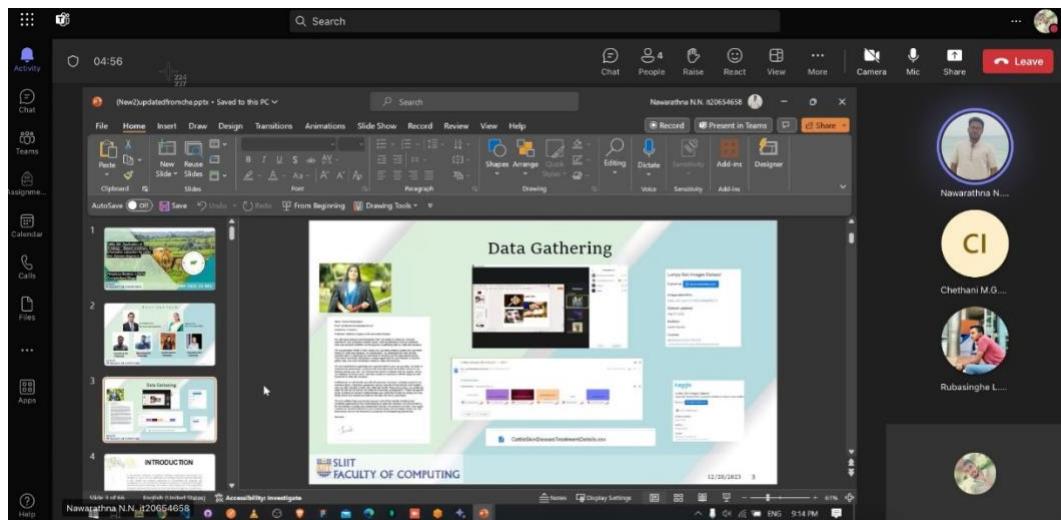
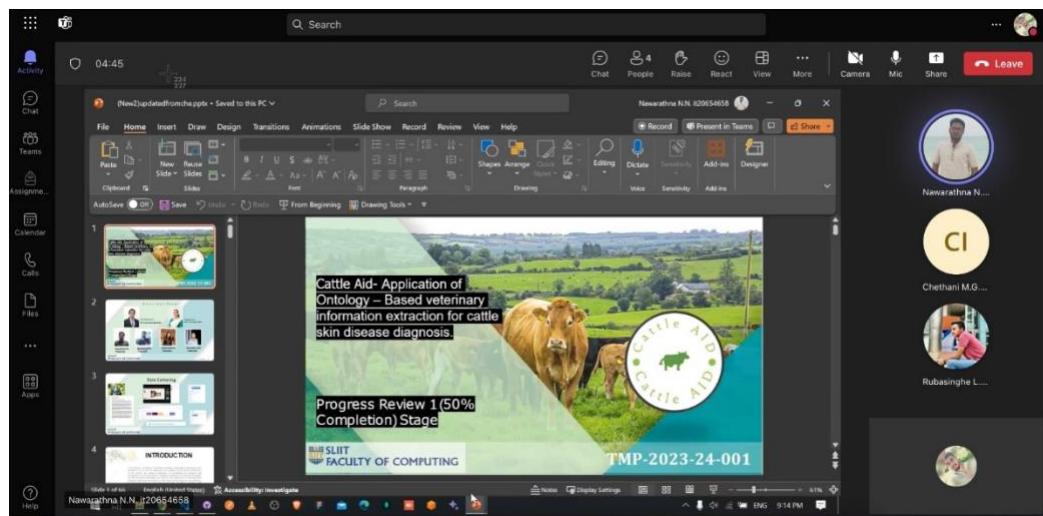
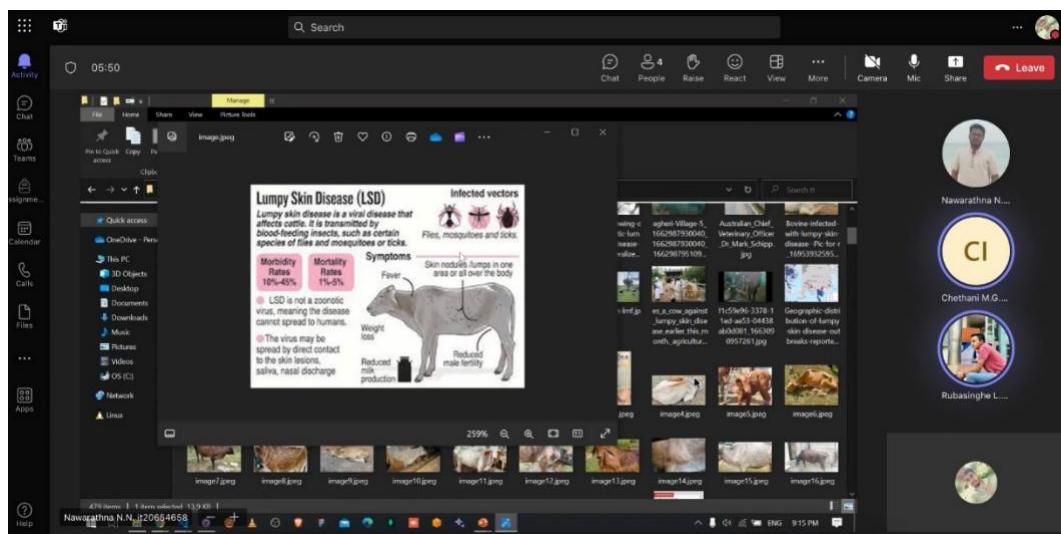
- Author Details:
  1. Author Name – Jayawardhana K.A.D.D.S
  2. Student ID – IT20651824
  3. Research objective – **Ontology-based information extraction system for Sri Lankan cattle domain and Educating Small-scale farmers**

### 1.2 Group Details:

Member Name	Student ID
M.G.K.Chethani. (Leader)	IT20659226
Nawarathna N.N	IT20654658
Jayawardhana K.A.D.D.S	IT20651824
Rubasinghe L.M	IT20299552

## 2 Screenshots of Students Meetings.





### 3 Files and document management

The screenshot shows the Microsoft Teams interface with a dark theme. On the left, there's a sidebar with various icons for Activity, Chat, Teams, Assignments, Calendar, Calls, and Apps. The main area displays a team channel named "Application of Ontology-Based Veterin...". The "General" tab is selected. At the top, there are buttons for "+ New", "Upload", "Edit in grid view", "Share", "Copy link", "Sync", and "Meet". Below these are buttons for "All Documents" and a search bar. A table lists documents with columns for Name, Modified, and Modified By. The documents listed are:

Name	Modified	Modified By
Dataset	December 10	Nawarathna N.N. it...
Logbook	July 21	Nawarathna N.N. it...
Other Documents	July 21	Nawarathna N.N. it...
Project Proposal DOCs	September 24	Nawarathna N.N. it...
Recordings	July 21	Nawarathna N.N. it...
Status 1	July 21	Nawarathna N.N. it...
FINALONE.pptx	9 hours ago	Nawarathna N.N. it...

### 4 Project Work Breakdown

The screenshot shows the Microsoft Teams interface with a dark theme. On the left, there's a sidebar with various icons for Activity, Chat, Teams, Assignments, Calendar, Calls, and Apps. The main area displays a team channel named "Application of Ontology-Based Veterin...". The "General" tab is selected. A task card is open for the task "Proposal-Individual-Title and Content". The card details are as follows:

- Bucket:** Jayawardhana K.A.D.D.S. IT2061824
- Progress:** Completed
- Priority:** Important
- Start date:** Start anytime
- Due date:** 30/07/2023
- Repeat:** Does not repeat
- Notes:** Type a description or add notes here.
- Completed tasks:** 18

This screenshot shows the Microsoft Teams interface for the 'Cattle AID' channel. The left sidebar shows the 'General' team channel. The main area displays a task list for user 'Nawarathna N.N IT20654658'. The tasks are categorized under 'Cattle AID' and include:

- Complete the pp2 Powerpoint presentation slides: Completed by Nawarathna N.
- Collect pp2 presentation detail: Completed by Nawarathna N.
- Frontend development: Completed by Nawarathna N.
- Backend development: Completed by Nawarathna N.
- Collected PPT 01-PowerPoint presentation details: Completed by Nawarathna N.

The task details for 'Create cattle ontology' are shown in the center panel:

- Cattle AID**: Individual component diagram
- Completed on 31/07/2023 by Nawarathna N.N IT20654658
- Assigned to Jayawardhana K.A.D.D.S. IT20651824
- Add task
- Add label
- Bucket**: Jayawardhana K.A.D.D.S IT20651824
- Progress**: Completed
- Priority**: Urgent
- Start date**: Start anytime
- Due date**: 29/07/2023
- Repeat**: Does not repeat
- Notes**: Type a description or add notes here
- Completed tasks: 18

This screenshot shows the Microsoft Teams interface for the 'Cattle AID' channel. The left sidebar shows the 'General' team channel. The main area displays a task list for user 'Jayawardhana K.A.D.D.S IT20651824'. The tasks are categorized under 'Cattle AID' and include:

- Create cattle ontology: Completed by Nawarathna N.
- Proposal-Individual Title and G...: Completed by Nawarathna N.
- Individual component-diagram: Completed by Nawarathna N.
- Completed by Nawarathna N.

The task details for 'Create cattle ontology' are shown in the center panel:

- Cattle AID**: Create cattle ontology
- Completed on 05/10/2023 by Nawarathna N.N IT20654658
- Assigned to Jayawardhana K.A.D.D.S. IT20651824
- Add task
- Add label
- Bucket**: Jayawardhana K.A.D.D.S IT20651824
- Progress**: Completed
- Priority**: Important
- Start date**: Start anytime
- Due date**: 28/10/2023
- Repeat**: Does not repeat
- Notes**: Type a description or add notes here

This screenshot shows the Microsoft Teams interface for the 'Cattle AID' channel. The left sidebar shows the 'General' team channel. The main area displays a chart view of tasks by status and bucket.

**Status** summary:

- Not started: 0
- In progress: 0
- Late: 0
- Completed: 14

**Buckets** (Y-axis):

- Nawarathna N.N IT20654658 (8 tasks)
- M.G.K.Chethani IT20659226 (2 tasks)
- Jayawardhana K.A.D.D.S IT20651824 (2 tasks)
- Rubasinghe LM IT20299552 (2 tasks)
- Completed (1 task)

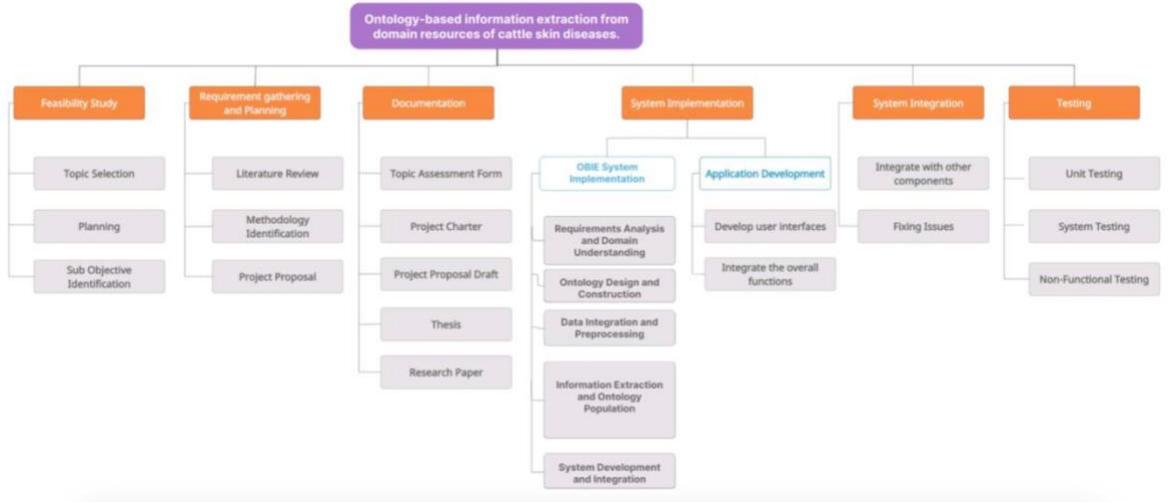
A screenshot of the Microsoft Teams application interface. On the left, there's a sidebar with icons for Activity, Chat, Teams, Assignments, Calendar, Calls, ..., Apps, and Help. The main area shows a team named "General" with a red icon. Below it, another team is partially visible: "Application of Ontology-Ba...". The top navigation bar includes a search bar, a "Meet" button, and tabs for General, Posts, Files, Cattle AID, and a plus sign. Below the tabs are buttons for Group by Bucket, Filter, List, Board, Charts, and Schedule. A priority chart on the left shows Urgent (level 4), Important (level 5), Medium (level 5), and Low (level 0). To the right, a "Tasks" section lists four items:

- Nawarathna N.N IT20654658
- M.G.K.Chethani IT20659226
- Jayawardhana K.A.D.D.S IT20651824
- Rubasinghe LM IT20299552

The "Completed" section is shown below the tasks.

A screenshot of the Microsoft Teams application interface during a video call. The top bar shows a search bar, a shield icon, and a "Leave" button. The left sidebar is identical to the first screenshot. The main area displays three video thumbnails in a row. The first thumbnail is a yellow circle containing the letters "CI". The second thumbnail shows a man in a white shirt. The third thumbnail shows a man in a pink shirt sitting on steps. Below each thumbnail is a name and ID: "Chethani M.G.K. it20659226", "Jayawardhana K.A.D.D.S. it20651824...", and "Rubasinghe LM it20299552". The bottom right corner shows a small video preview of the host. The bottom navigation bar includes icons for Chat, People, Raise, React, View, More, Camera, Mic, Share, and a red "Leave" button.

## 5 Work Breakdown Chart



## 6 Updated Gantt chart of finalize Design & implementation phases.

## 7 Data Collections

Name: Thamali Wickramsinghe  
Email: tamalikwickrarsinghe@gmail.com  
Contact No: 0774389479

Profession: Veterinary Surgeon at Pet care solution hospital.

It is with great pleasure and anticipation that I am writing to extend my warmest welcome to your esteemed research group, which is planning to visit our veterinary clinic and research institution for the purpose of gathering data on cattle skin diseases.

We are genuinely thrilled to learn about your upcoming research project and your keen interest in cattle skin diseases. As veterinarians, we understand the vital role that research plays in advancing the well-being of livestock and the agricultural industry. Your visit to our facility will provide a unique opportunity for your students to observe, gather data, and verify information related to cattle skin diseases.

We are committed to supporting your research efforts in any way possible. Our team of experienced veterinarians, research staff, and state-of-the-art facilities will be at your disposal during your visit. You will have the chance to interact with our experts, access our database of clinical cases, and have hands-on experience with the diagnosis and treatment of cattle skin diseases.

Furthermore, we will provide you with all necessary resources, including access to our extensive library, laboratory equipment, and our network of local farmers and ranchers who can offer valuable insights into cattle skin health. Please let us know your preferred dates for the visit so that we can make the necessary arrangements. If there are specific areas of interest or research methodologies you would like to focus on during your stay, kindly inform us in advance so that we can tailor the visit to your needs.

We are confident that your research group's visit will be mutually beneficial and contribute significantly to the understanding of cattle skin diseases. We look forward to the knowledge exchange and collaboration that this visit promises to foster. Once again, I extend my warmest welcome to your research group, and we eagerly await your visit. Safe travels and we look forward to a productive and enlightening partnership.

Sincerely,



 CattleSkinDiseasesTreatmentDetails.csv

Lumpy Skin Images Dataset

more at: [data.mendeley.com](https://data.mendeley.com/datasets/10.17632/w36hpfb6j2.1)

unique identifier  
<https://doi.org/10.17632/w36hpfb6j2.1>

dataset updated  
Sep 19, 2022

authors  
Chirag Chauhan in Kumar

license  
Attribution 4.0 (CC BY 4.0)

This information was derived automatically.

 kaggle

Lumpy Skin Images Dataset  
Lumpy skin disease (LSD) is caused by infection of cattle or water buffaloes.

Explore at: [Kaggle | kaggle.com](https://www.kaggle.com/datasets/10.17632/w36hpfb6j2.1)

 zip(161838004 bytes)

Dataset updated  
Sep 22, 2023

Authors  
Chirag Chauhan

License  
Attribution 4.0 (CC BY 4.0)

This information was derived automatically.

Cattle disease informations ➤ [inbox](#)

W.G.I. SATHSARANI AT/2019/061 <sathsarani61@ags.ruh.ac.lk>  
to me ▾

Tue, Sep 19, 12:07 PM [star](#) [print](#)

[Get Outlook for Android](#)

6 Attachments • Scanned by Gmail

Lumpy Skin Disease

2. Lumpy skin dis...

Common Livestock Diseases

3. Livestock Dise...

Bacterial Diseases of Cattle

3. Livestock Dise...

Bacterial Diseases in Cattle

Common

4. Livestock Dise...

Mastitis

7. Mastitis.pdf

Livestock Diseases-II

8. Livestock Dise...

[Reply](#) [Forward](#)

A screenshot of a Microsoft OneNote page titled "Cooking the Meads - Savour the Mead". The page contains two images: one of a hand holding a piece of food over a flame, and another of several small containers filled with a red substance. Below the images is the text "to add title". On the right side of the screen, there is a "Participants (4)" list with four entries: Nirmal Nawarathna (Me), Indusi Pathirana (Host), Chethani, and Dilshan. Each participant has a small profile picture and a red "X" icon next to their name.

# **“Application of Ontology-Based Veterinary Information Extraction for Cattle Skin Disease Diagnosis”**

**Project ID - TMP-2023-24-001**



## **Status Document - 1**

Name – Nawarathna N.N.

Registration Number – IT20654658

B.Sc. Special (Hons) in Information Technology Specializing in Software Engineering.

Department of Information Technology.

Sri Lanka Institute of Information Technology  
Sri Lanka

November 2023

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## 1. Introduction and Group Details

### 1.1 Introduction:

In the dynamic landscape of veterinary medicine, technological innovations have emerged as crucial tools for addressing the challenges faced by livestock industries. In this context, our research endeavours to revolutionize the diagnosis and management of cattle skin diseases through the integration of advanced technologies and domain-specific knowledge. Our research topic, "Application of Ontology-Based Veterinary Information Extraction for Cattle Skin Disease Diagnosis," encapsulates a multidimensional approach that harnesses the power of artificial intelligence (AI) and ontology-based information extraction to enhance the understanding and handling of cattle skin diseases.

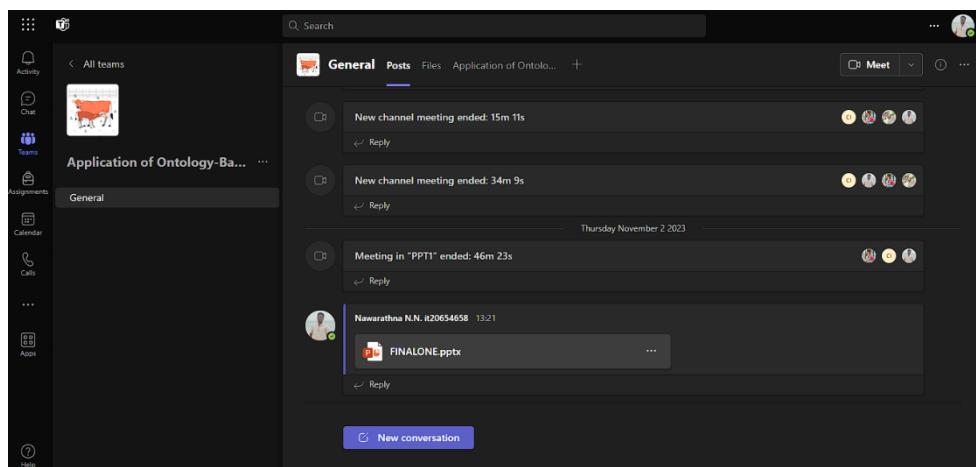
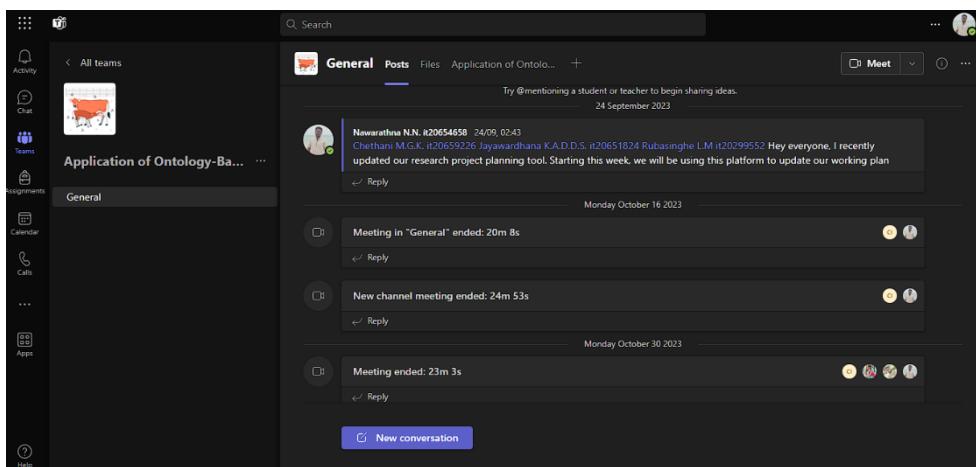
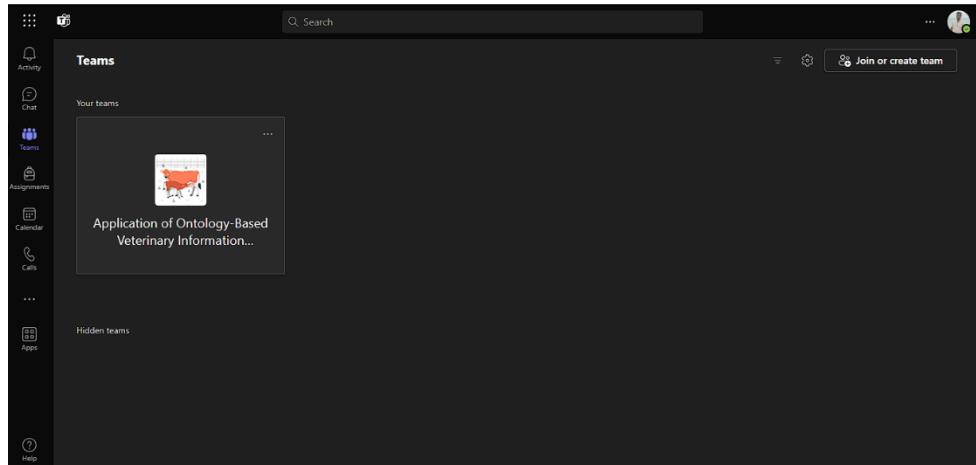
- Author Details:

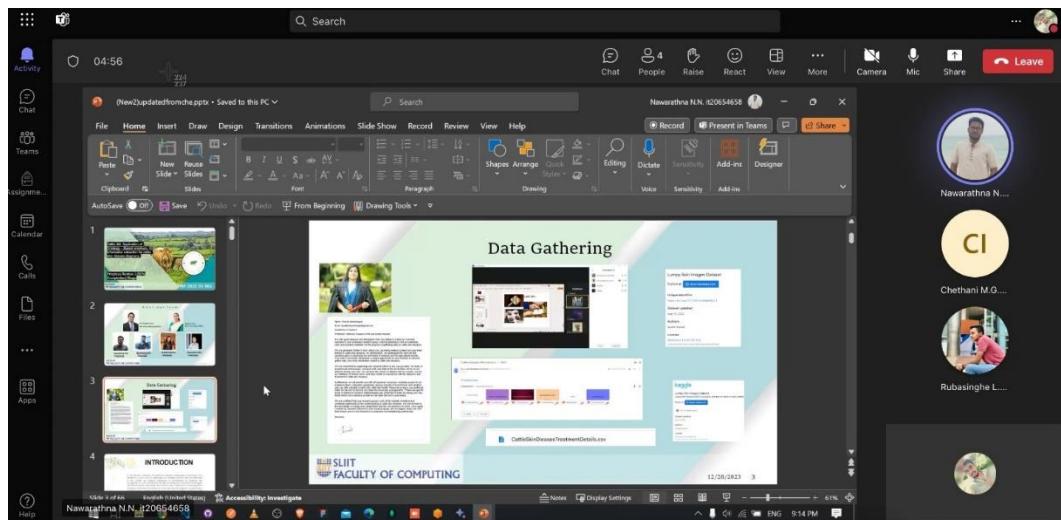
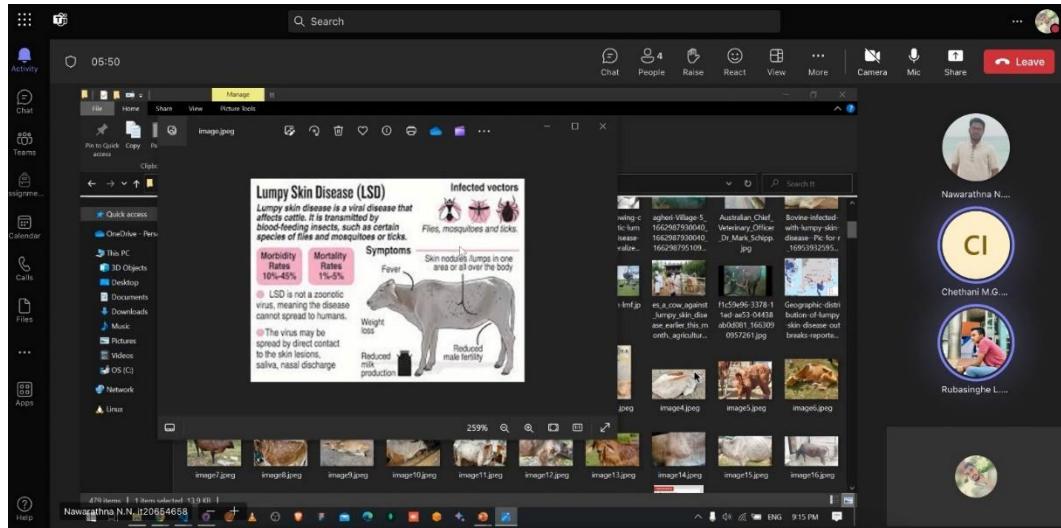
1. Author Name – Nawarathna N.N.
2. Student ID – IT20654658
3. Research objective – **Enhanced Cattle Skin Disease Detection and Severity Assessment Using Image Processing and Advanced Models.**

### 1.2 Group Details:

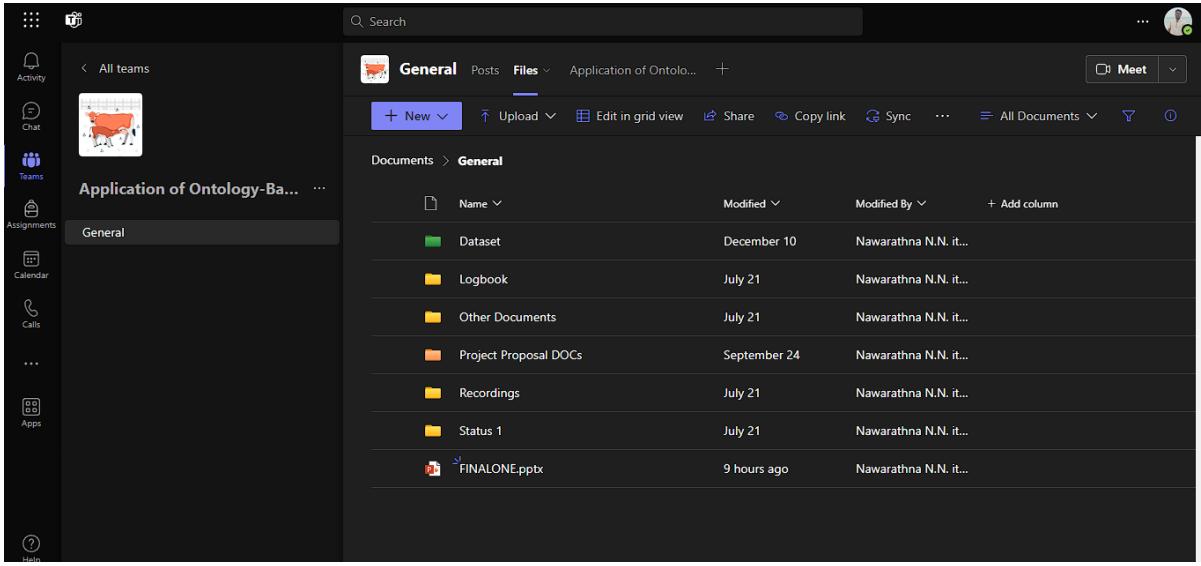
Member Name	Student ID
M.G.K.Chethani. (Leader)	IT20659226
Nawarathna N.N	IT20654658
Jayawardhana K.A.D.D.S	IT20651824
Rubasinghe L.M	IT20299552

## 2 Screenshots of Students Meetings.





### 3 Files and document management



The screenshot shows the Microsoft Teams interface with the 'Files' tab selected in a team channel named 'General'. The left sidebar displays various team channels like 'All teams', 'General', and 'Project A'. The main area shows a list of files and folders:

Name	Modified	Modified By
Dataset	December 10	Nawarathna N.N. it...
Logbook	July 21	Nawarathna N.N. it...
Other Documents	July 21	Nawarathna N.N. it...
Project Proposal DOCs	September 24	Nawarathna N.N. it...
Recordings	July 21	Nawarathna N.N. it...
Status 1	July 21	Nawarathna N.N. it...
FINALONE.pptx	9 hours ago	Nawarathna N.N. it...

## 4 Project Work Breakdown

This screenshot shows the Microsoft Teams interface in dark mode. On the left is the sidebar with various team and app icons. The main area displays the 'General' channel of a team named 'Application of Ontology-B...'. Two user profiles are visible: 'Nawarathna N.N IT20654658' and 'M.G.K.Chethani IT20659226'. Each user has a task list under their respective names. The tasks are listed in a card format with icons indicating status (blue circle for completed). A message from M.G.K.Chethani is visible in the channel feed.

This screenshot shows a detailed view of a task card in the Microsoft Teams interface. The task is titled 'Proposal-Individual Title and Content' and was completed by Nawarathna N.N. on 07/31/2023. The task card includes fields for Bucket (Nawarathna N.N IT20654658), Priority (Important), Due date (07/30/2023), Progress (Completed), Start date (Start anytime), and Repeat (Does not repeat).

This screenshot shows another detailed view of a task card in the Microsoft Teams interface. The task is titled 'collecting information for cattle skin disease.' and was completed by Nawarathna N.N. on 27/07/2023. The task card includes fields for Bucket (Nawarathna N.N IT20654658), Priority (Medium), Start date (27/07/2023), Due date (16/08/2023), Progress (Completed), and Repeat (Does not repeat).

Screenshot of Microsoft Teams General tab showing a task card for "Create cattle skin disease identification model".

**Cattle AID**

**Create cattle skin disease identification model.**  
Completed on 28/10/2023 by you

**Completed by**: Nawarathna N.N IT20651824

**Bucket**: Nawarathna N.N IT20651824  
**Progress**: Completed  
**Priority**: Medium

**Start date**: 28/10/2023  
**Due date**: 28/10/2023  
**Repeat**: Does not repeat

**Notes**: Type a description or add notes here

Screenshot of Microsoft Teams General tab showing a task card for "Test the dataset with model".

**Cattle AID**

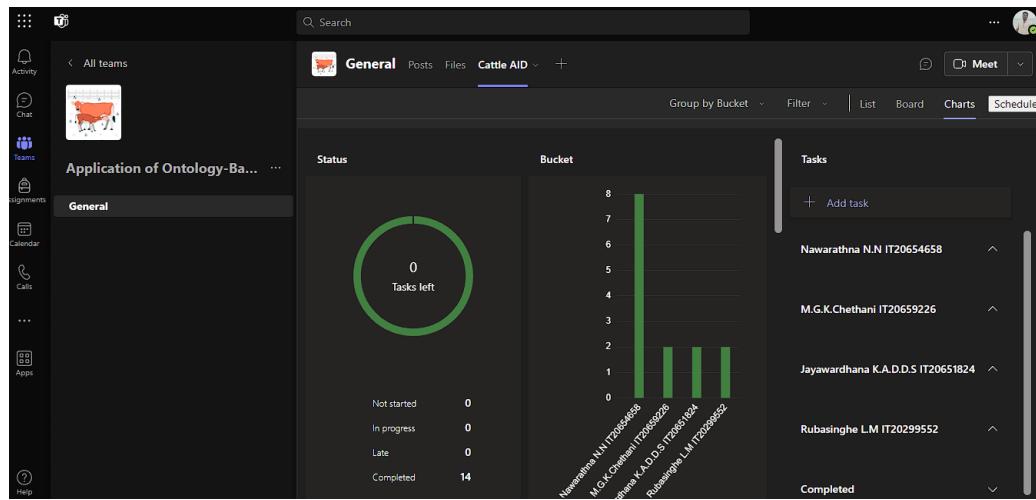
**Test the dataset with model.**  
Completed on 01/11/2023 by you

**Completed by**: Nawarathna N.N IT20654658

**Bucket**: Nawarathna N.N IT20654658  
**Progress**: Completed  
**Priority**: Medium

**Start date**: 01/11/2023  
**Due date**: 01/11/2023  
**Repeat**: Does not repeat

**Notes**: Type a description or add notes here



The screenshot shows a Microsoft Teams interface with the 'General' channel selected in the 'Cattle AID' team. On the left is the Teams sidebar. The main area displays a priority matrix chart with 'Urgent' at level 4, 'Important' at level 5, and 'Medium' at level 5. To the right is a list of tasks:

- Nawarathna N.N IT20654658
- M.G.K.Chethani IT20659226
- Jayawardhana K.A.D.D.S IT20651824
- Rubasinghe LM IT20299552
- Completed

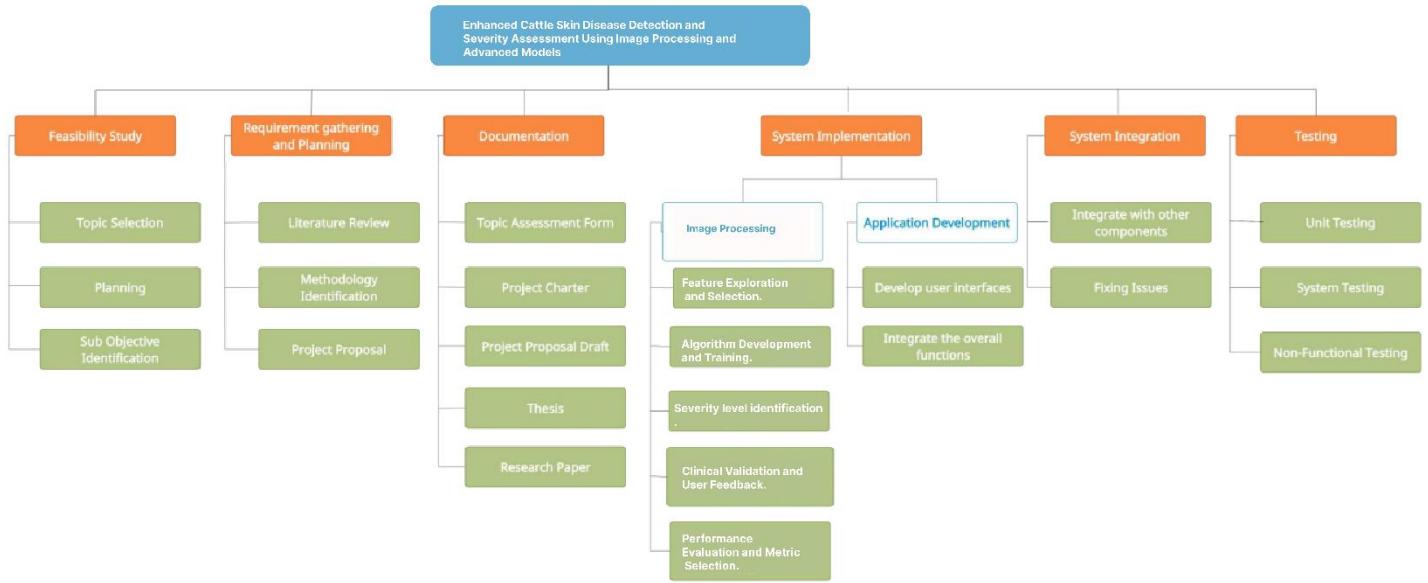
At the top right, there are buttons for 'Meet', 'List', 'Board', 'Charts', and 'Schedule'.

The screenshot shows a Microsoft Teams video call in progress. The host's video feed is visible in the center, showing a person with a yellow circular overlay containing the letters 'CI'. Below the video feeds are the names and profile pictures of the participants:

- Chethani M.G.K. it20659226
- Jayawardhana K.A.D.D.S. it20651824
- Rubasinghe LM it20299552

The Teams sidebar is on the left, and the top navigation bar includes 'Chat', 'People', 'Raise', 'React', 'View', 'More', 'Camera', 'Mic', and 'Share' buttons. A 'Leave' button is also present in the top right corner.

## 5 Work Breakdown Chart



6 Updated Gantt chart of finalize Design & implementation phases.

## 7 Data Collections



### Lumpy Skin Images Dataset

Explore at: [data.mendeley.com](https://data.mendeley.com/datasets/10.17632/w36hpfb6j2.1)

#### Unique identifier

<https://doi.org/10.17632/w36hpfb6j2.1>

#### Dataset updated

Aug 19, 2022

#### Authors

Sachin Kumar

#### License

Attribution 4.0 (CC BY 4.0)

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### kaggle

#### Lumpy Skin Images Dataset

Lumpy skin disease (LSD) is caused by infection of cattle or water buffal

Explore at: [Kaggle | kaggle.com](#)

zip(161838004 bytes)

#### Dataset updated

Sep 22, 2023

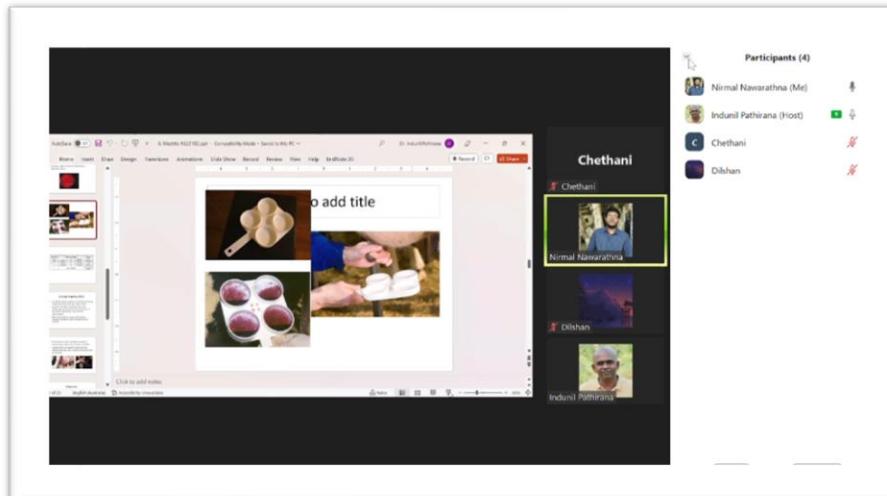
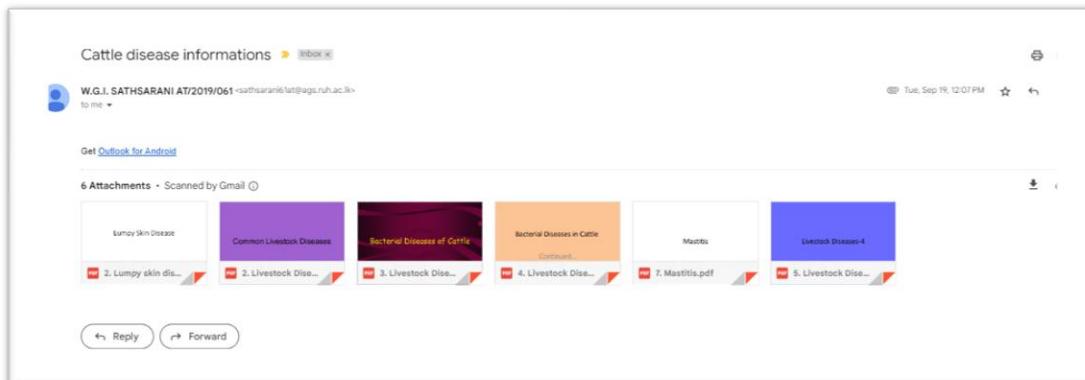
#### Authors

Chirag Chauhan

#### License

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# **“Application of Ontology-Based Veterinary Information Extraction for Cattle Skin - Disease Diagnosis”**

**Project ID - TMP-2023-24-001**



## **Status Document - 1**

Name – M.G.K.Chethani

Registration Number – IT20659226

B.Sc. Special (Hons) in Information Technology Specializing in Software Engineering.

Department of Information Technology.

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Sri Lanka

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## 1. Introduction and Group Details

### 1.1 Introduction:

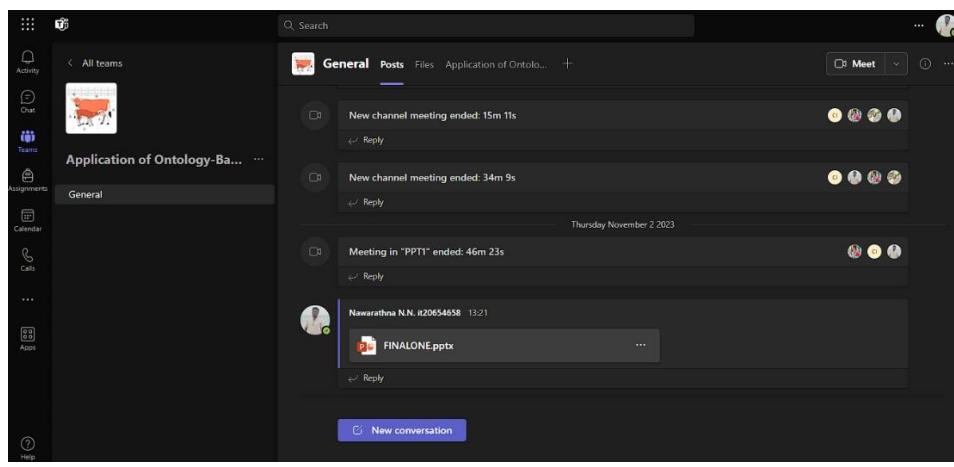
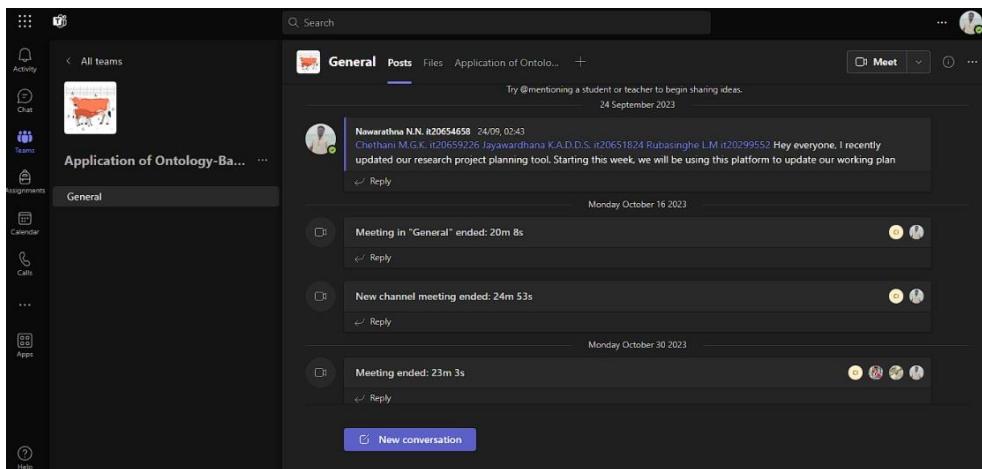
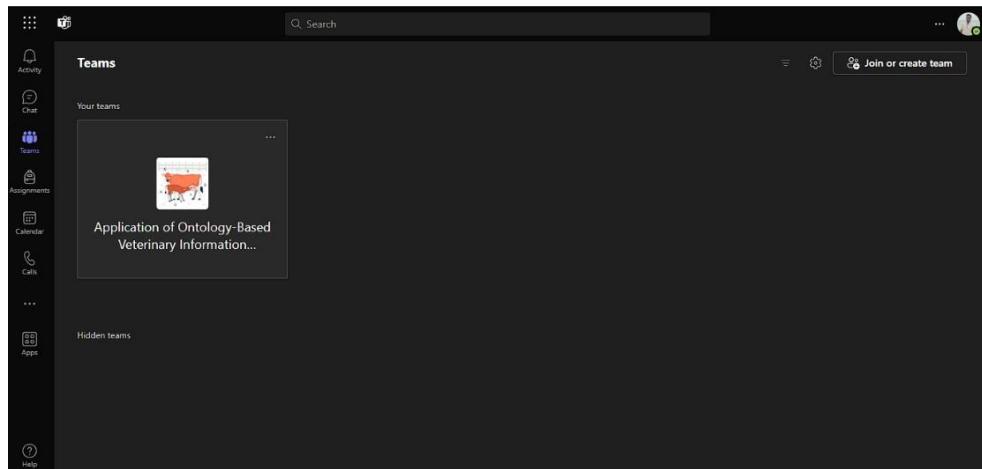
In this component I am to create a user-specific knowledge base by filtering the treatment details from the domain knowledge-based, we contact a vet through a mobile application to clarify that suggested treatment details can be used for those treatments, verify treatment details and suggestions need up to date in the user-specific knowledge based when users ask questions from AI assistants that user-specific knowledge should be up to date.

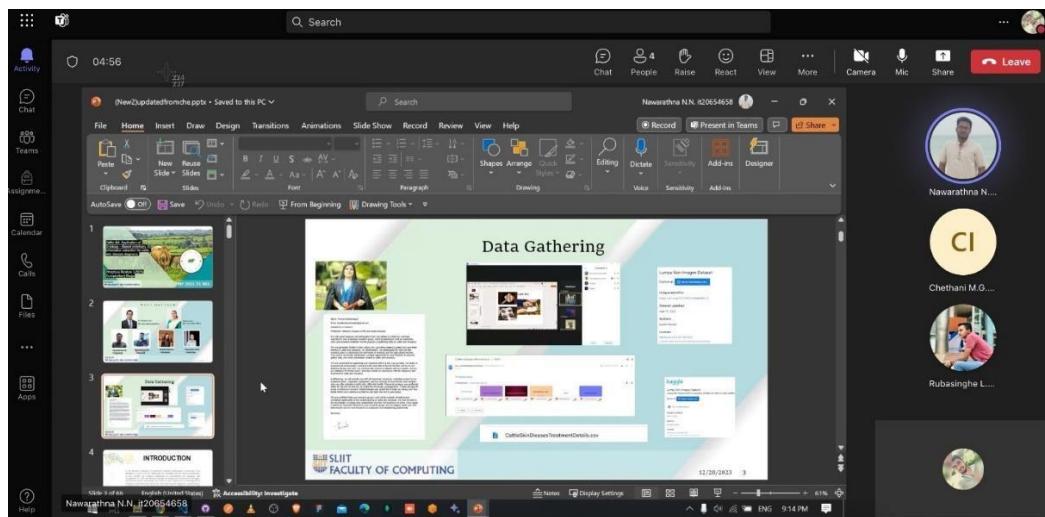
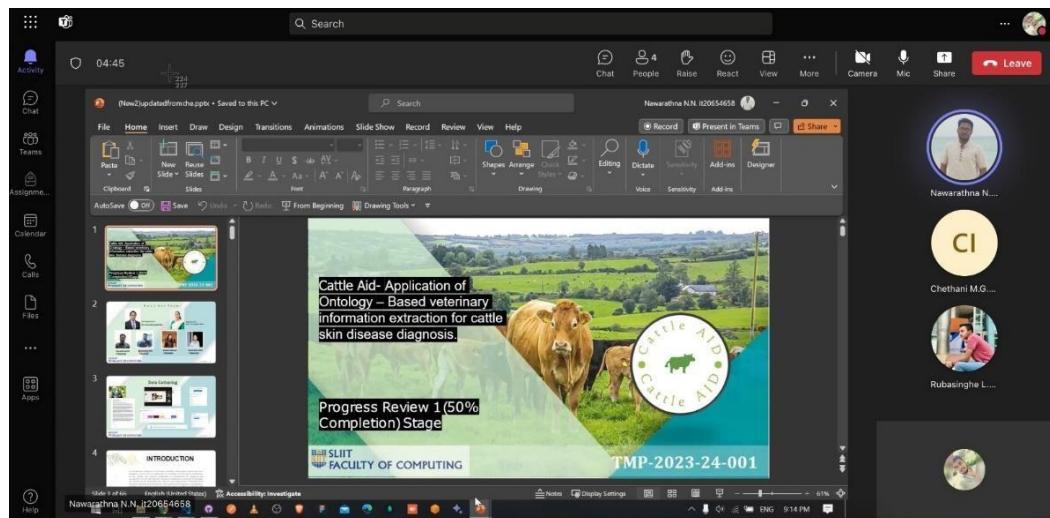
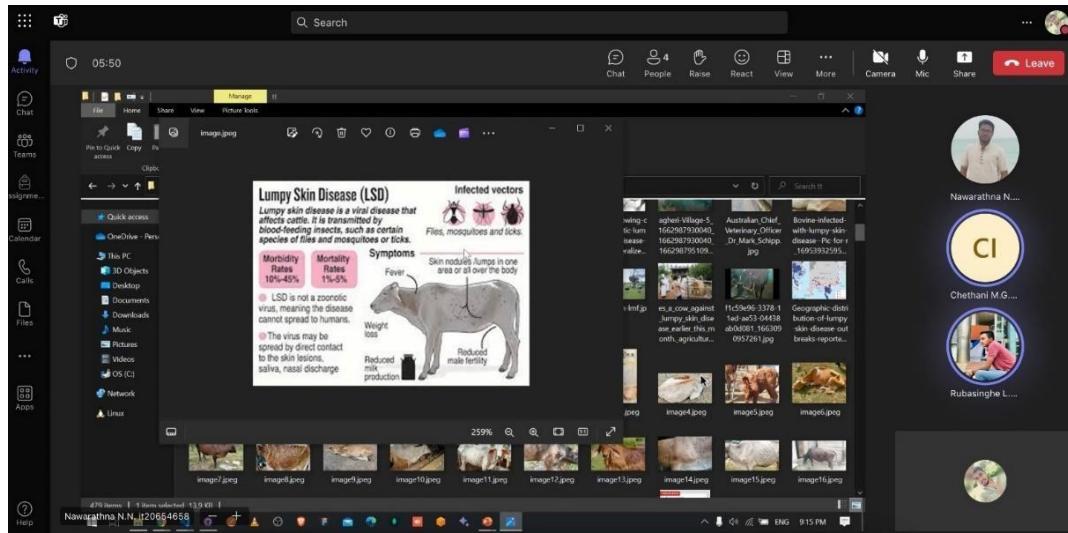
- Author Details:
  1. Author Name – M.G.K.Chethani
  2. Student ID – IT20659226
  3. Research objective – **User-Specific Knowledge Base: Leveraging Reinforcement Learning for Up-to-Date Veterinary Treatment Details and Expert Communication**

### 1.2 Group Details:

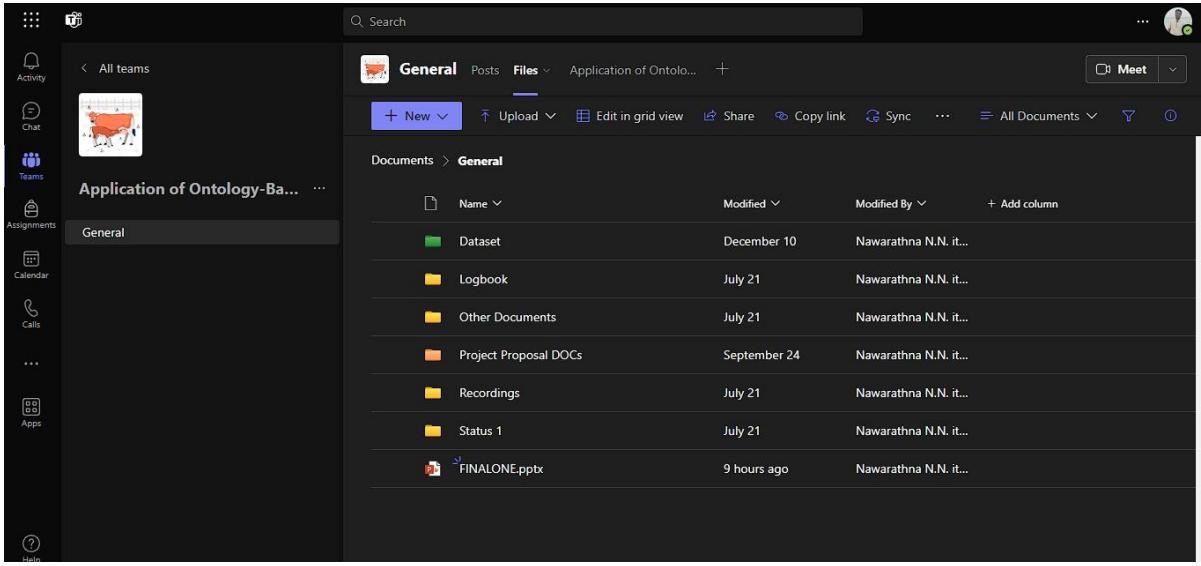
<b>Member Name</b>	<b>Student ID</b>
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Jayawardhana K.A.D.D.S	IT20651824
Rubasinghe L.M	IT20299552

## 2 Screenshots of Students Meetings.





### 3 Files and document management



The screenshot shows the Microsoft Teams interface with the 'Files' tab selected in a team channel named 'General'. The left sidebar displays various team channels like 'All teams', 'General', and 'Dataset'. The main area shows a list of files and folders:

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FINALONE.pptx	9 hours ago	Nawarathna N.N. it...

## 4 Project Work Breakdown

The screenshot shows a project management interface with a sidebar on the left and a main workspace on the right.

**Sidebar:**

- All teams
- Application of Ontology-Based Veterin... (selected)
- Main Channels
- General

**Main Workspace (Cattle AID Card):**

**Card Details:**

- Title:** Cattle AID
- Description:** Proposal Individual Title and Content
- Completed on:** 09/24/2023 by Nawarathna N.N. it20654658
- Assigned To:** Chethani M.G.K. it20659226
- Labels:** Add label
- Bucket:** M.G.K.Chethani IT2065...
- Progress:** Completed
- Priority:** Important
- Start Date:** Start anytime
- Due Date:** 07/30/2023
- Repeat:** Does not repeat
- Notes:** Type a description or add notes here
- Checklist:** Checklist 11 / 11

The screenshot shows a project management interface with a sidebar on the left and a main workspace on the right.

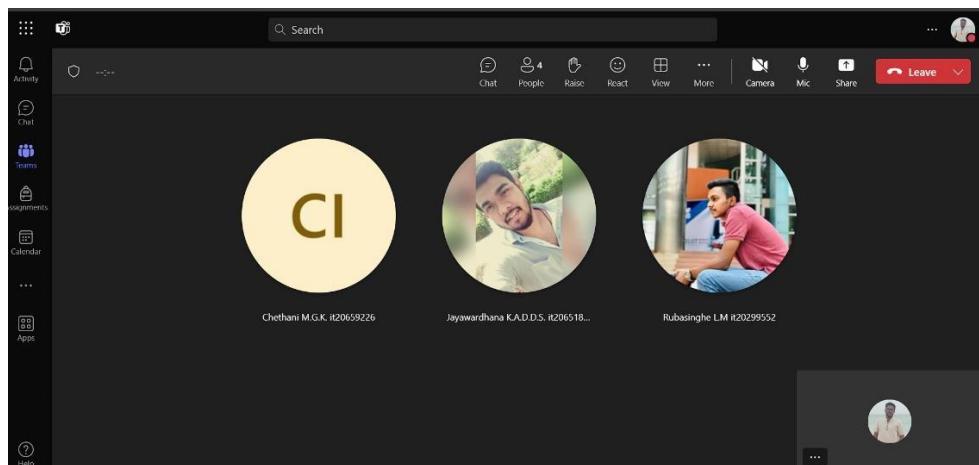
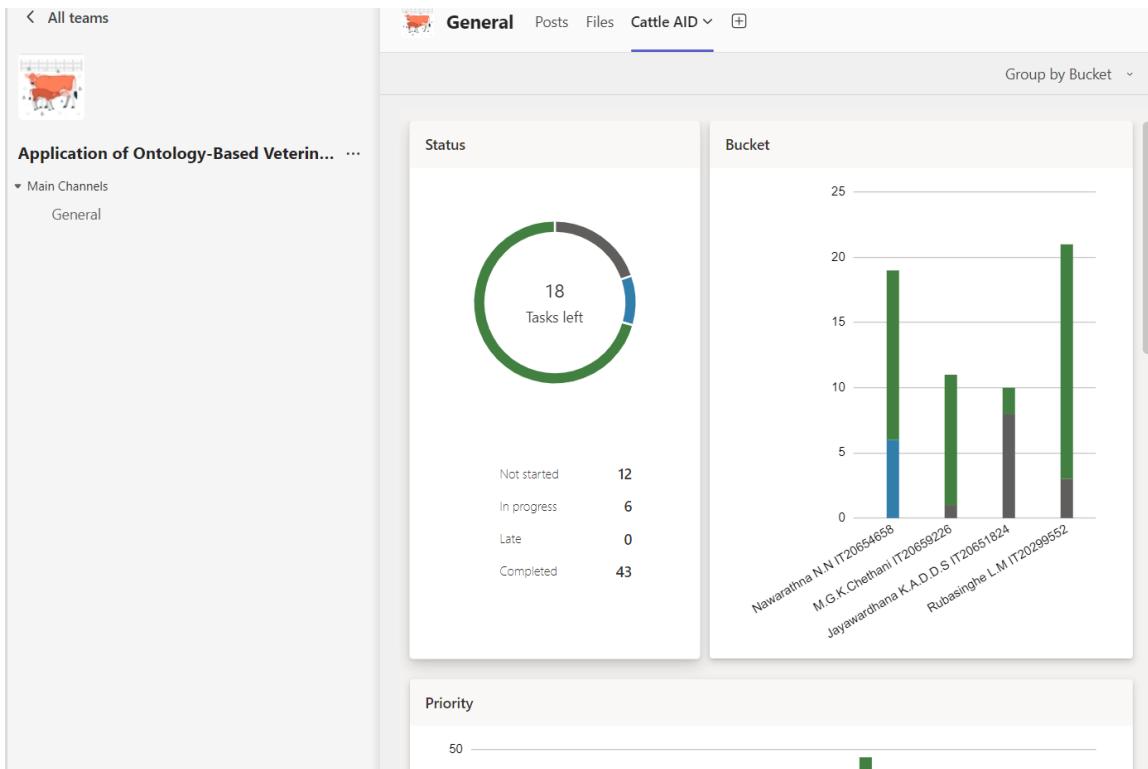
**Sidebar:**

- All teams
- Application of Ontology-Based Veterin... (selected)
- Main Channels
- General

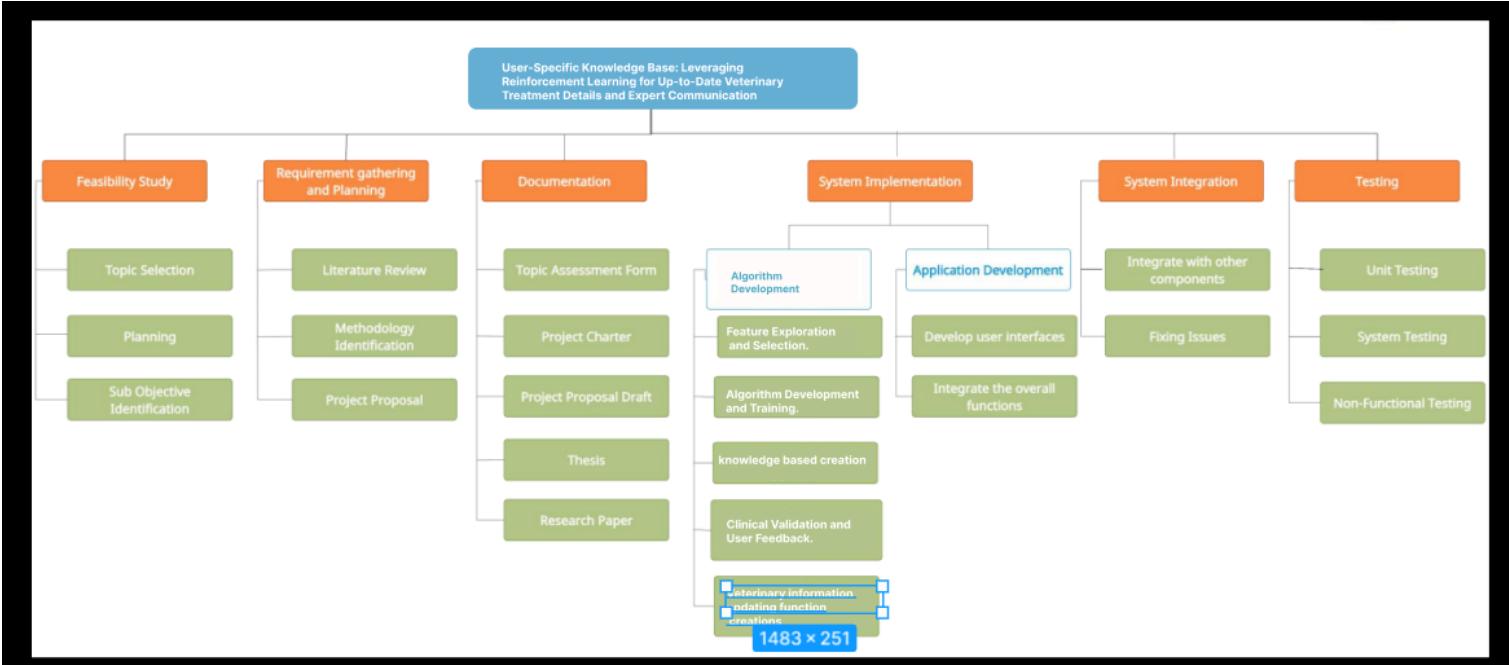
**Main Workspace (Cattle AID Card):**

**Card Details:**

- Title:** Cattle AID
- Description:** Individual component diagram
- Completed on:** 07/31/2023 by Nawarathna N.N. it20654658
- Assigned To:** Chethani M.G.K. it20659226
- Labels:** Add label
- Bucket:** M.G.K.Chethani IT2065...
- Progress:** Completed
- Priority:** Urgent
- Start Date:** 07/22/2023
- Due Date:** 07/29/2023
- Repeat:** Does not repeat
- Notes:** Type a description or add notes here
- Checklist:** Checklist



## 5 Work Breakdown Chart



## 6 Updated Gantt chart of finalized Design & implementation phases.

## 7 Data Collections



### CattleSkinDiseasesTreatmentDetails.csv

Lumpy Skin Images Dataset

Explore at: [data.mendeley.com](https://data.mendeley.com/datasets/10.17632/w36hpfb6j2.1)

Unique identifier  
<https://doi.org/10.17632/w36hpfb6j2.1>

Dataset updated  
Aug 19, 2022

Authors  
Sachin Kumar

License  
Attribution 4.0 (CC BY 4.0)  
License information was derived automatically

kaggle

Lumpy Skin Images Dataset  
Lumpy skin disease (LSD) is caused by infection of cattle or water buffal

Explore at: [Kaggle | kaggle.com](https://www.kaggle.com/datasets/sachinkumar/lumpy-skin-disease-lsd)

zip(161838004 bytes)

Dataset updated  
Sep 22, 2023

Authors  
Chirag Chauhan

License  
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Cattle disease informations

W.G.I. SATHSARANI AT/2019/061 <sathsarani.fath@sgu.ln.ac.lk> to me

Tue, Sep 19, 12:07 PM

Get Outlook for Android

6 Attachments • Scanned by Gmail

lumpy Skin Disease  
Common Livestock Diseases  
Bacterial Diseases of Cattle  
Bacterial Diseases in Cattle  
Mastitis  
Livestock Disease-4  
2. Lumpy skin dis...  
2. Livestock Disease-4  
3. Livestock Disease-4  
4. Livestock Disease-4  
5. Mastitis.pdf  
5. Livestock Disease-4

Reply Forward

Participants (4)

- Nimal Nawarathna (Me)
- Indunil Pathirana (Host)
- Chethani
- Dilshan

# **“Application of Ontology-Based Veterinary Information Extraction for Cattle Skin Disease Diagnosis”**

**Project ID - 2023-24-001**



## **Status Document - 1**

Name – Rubasinghe L.M

Registration Number – IT20299552

B.Sc. Special (Hons) in Information Technology Specializing in Software Engineering.

Department of Information Technology.

Sri Lanka Institute of Information Technology  
Sri Lanka

November 2023

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5. Work Breakdown Chart .....	9
6. Updated Gantt chart of finalize Design & implementation phases.....	9
7. Data Collections.....	5

## 1. Introduction and Group Details

### 1.1 Introduction:

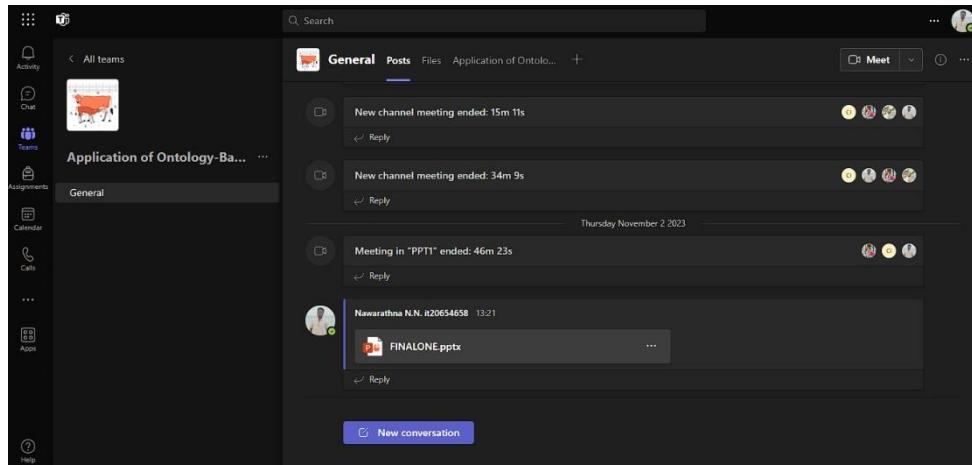
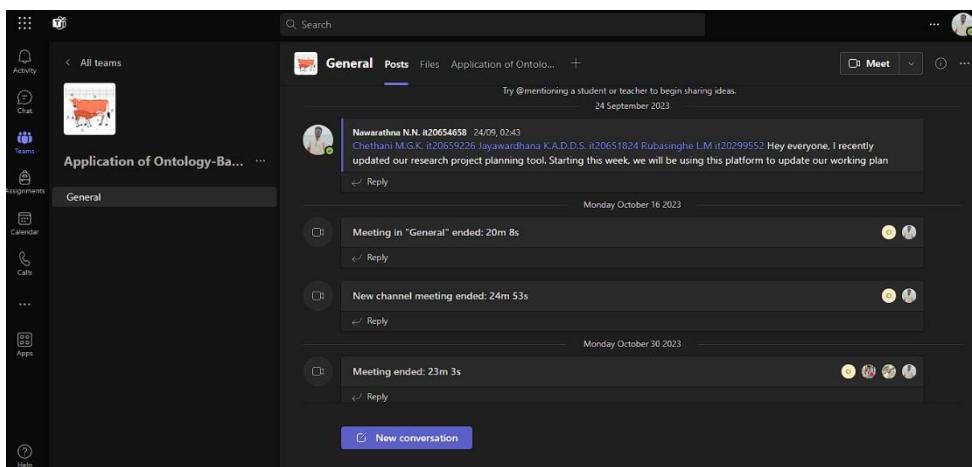
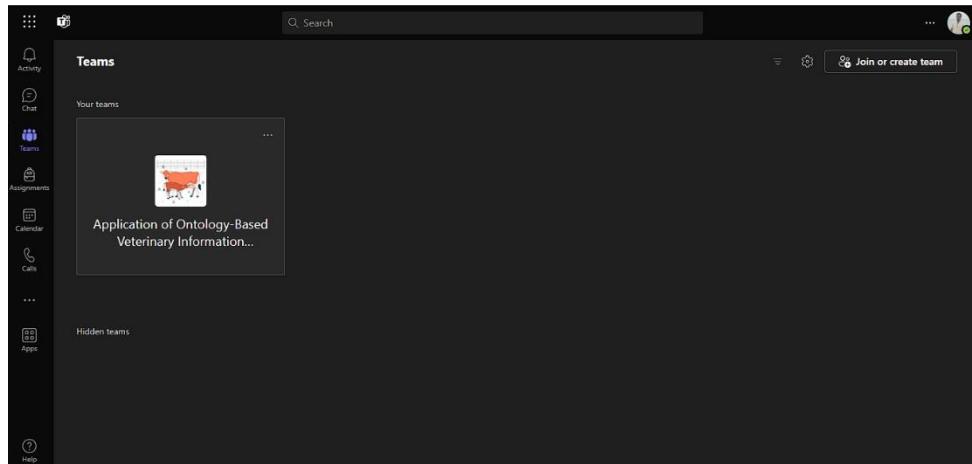
Create an AI Assistant with Emotional Intelligence: Design and build an AI smart assistant with emotional intelligence that can recognize and address the wants and worries of stakeholders in the cattle farming industry. Sentiment analysis should be integrated to effectively identify and analyze sentiment expressions in text, image, and voice interactions. This requires the use of cutting-edge sentiment analysis algorithms. Contextualize Responses: Create a system that generates contextually pertinent answers in response to user inquiries and sentiment analysis. Improve User Engagement and Support: By offering emotionally intelligent, sympathetic, and educational encounters, you may increase user engagement, satisfaction, and decision-making. Real-Time Emotional Context Monitoring: Include techniques for keeping an eye on the emotional context of user interactions in real-time. Create algorithms to track sentiment shifts and changes, allowing the system to keep track of changing emotional states. Advanced Dialog Management: Choose a dialog management system that can handle talks that are context aware. Create and deploy a dynamic conversation flow that takes into consideration topic changes and shifting emotional states.

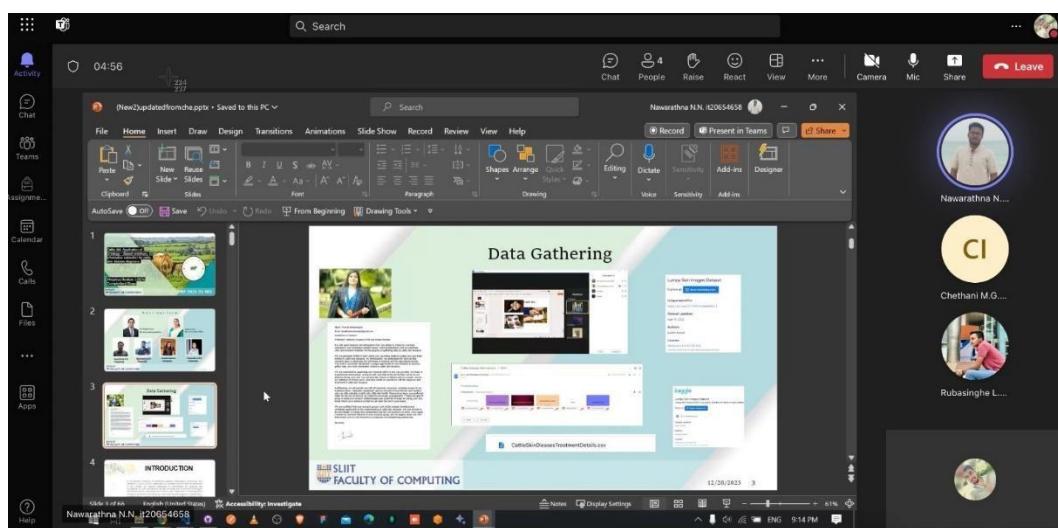
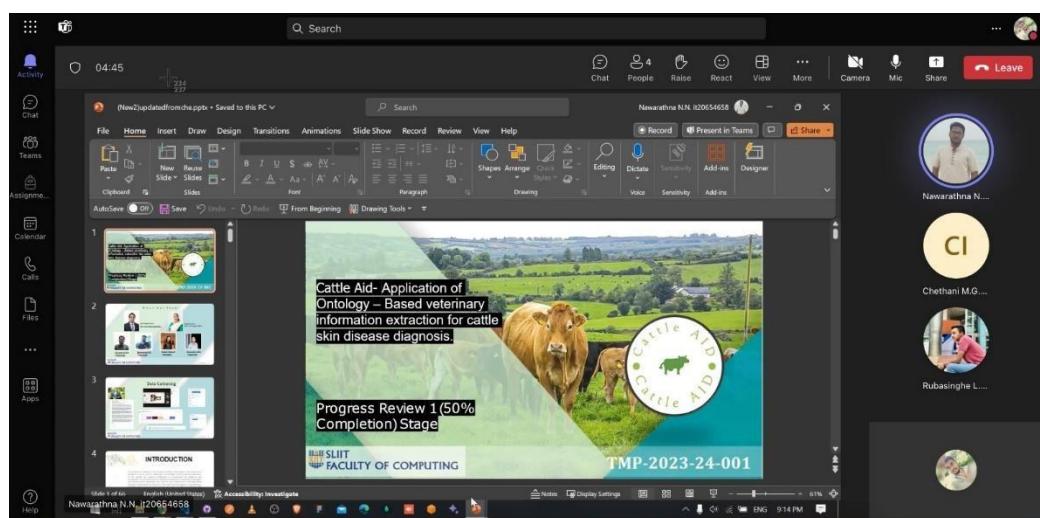
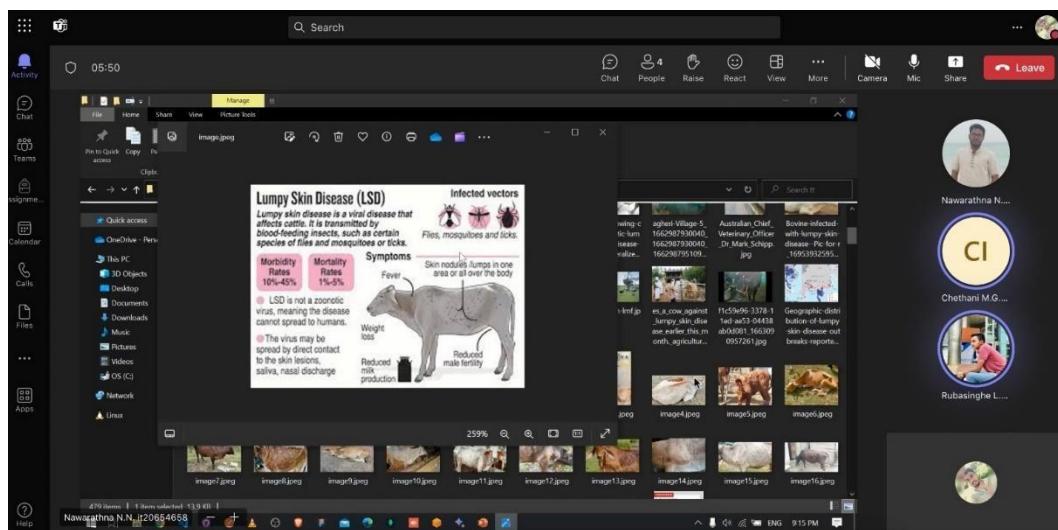
- Author Details:
  1. Author Name – Rubasinghe L.M
  2. Student ID – IT20299552
  3. Research objective – **Domain Specific AI Smart Assistant Using Sentiment Analysis**

### 1.2 Group Details:

Member Name	Student ID
M.G.K.Chethani. (Leader)	IT20659226
Nawarathna N.N	IT20654658
Jayawardhana K.A.D.D.S	IT20651824
Rubasinghe L.M	IT20299552

## 2. Screenshots of Students Meetings.





### 3. Files and Document Management

The screenshot shows a file management interface with the following details:

- Top navigation bar: Share, Copy link, Download, Automate, Sort, Details.
- Current location: My files > Research.
- Search bar: Name.
- Table headers: Name, Modified, Modified By, File size, Sharing, Activity.
- Table data:

Name	Modified	Modified By	File size	Sharing	Activity
Data Set	3 minutes ago	Rubasinghe LM IT2025	1 item	Private	
Other Documents	A few seconds ago	Rubasinghe LM IT2025	4 items	Private	
Presentations	A few seconds ago	Rubasinghe LM IT2025	1 item	Private	
Progress Documents	About a minute ago	Rubasinghe LM IT2025	0 items	Private	
Project Proposal	About a minute ago	Rubasinghe LM IT2025	2 items	Private	
Research Paper	About a minute ago	Rubasinghe LM IT2025	0 items	Private	
Source Codes	About a minute ago	Rubasinghe LM IT2025	1 item	Private	

### 4 Project Work Breakdown

The screenshot shows a project management board for the 'Cattle AID' team. The board has two columns:

- General:** Contains 2 completed tasks:
  - Create-Status-Doc-4
  - Progress-Presentation-1
- Cattle AID:** Contains 10 completed tasks:
  - Completed by Rubasinghe LM IT20299552
  - Completed by Rubasinghe LM IT20299552

Left sidebar: All teams, Application of Ontology-Based V..., Main Channels (General).

All teams

General Posts Files Cattle AID +

awardhana K.A.D.D.S IT20651824 Rubasinghe LM IT20299552 Add new bucket

Completed tasks 2

+ Add task + Add task

Completed by Rubasinghe LM it...  
Create Model with collected Dataset  
Completed by Rubasinghe LM it...  
Collect Data Set  
Completed by Rubasinghe LM it...  
Create Individual Proposal Document  
Completed by Rubasinghe LM it...  
Create Individual Component Diagram

All teams

General Posts Files Cattle AID +

awardhana K.A.D.D.S IT20651824 Rubasinghe LM IT20299552 Add new bucket

Completed tasks 2

+ Add task + Add task

Completed by Rubasinghe LM it...  
Create Individual Component Diagram  
Completed by Rubasinghe LM it...  
Create TAF Document  
Completed by Rubasinghe LM it...  
Proposal Individual Title and Content  
11 / 11  
Completed by Nawarathna N.N. i...  
Individual component diagram

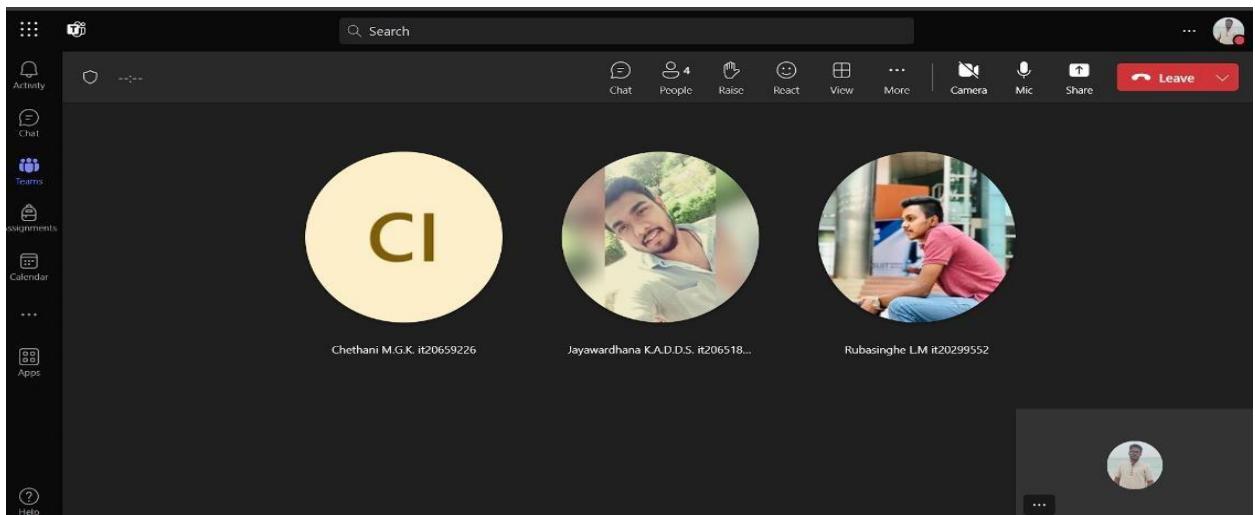
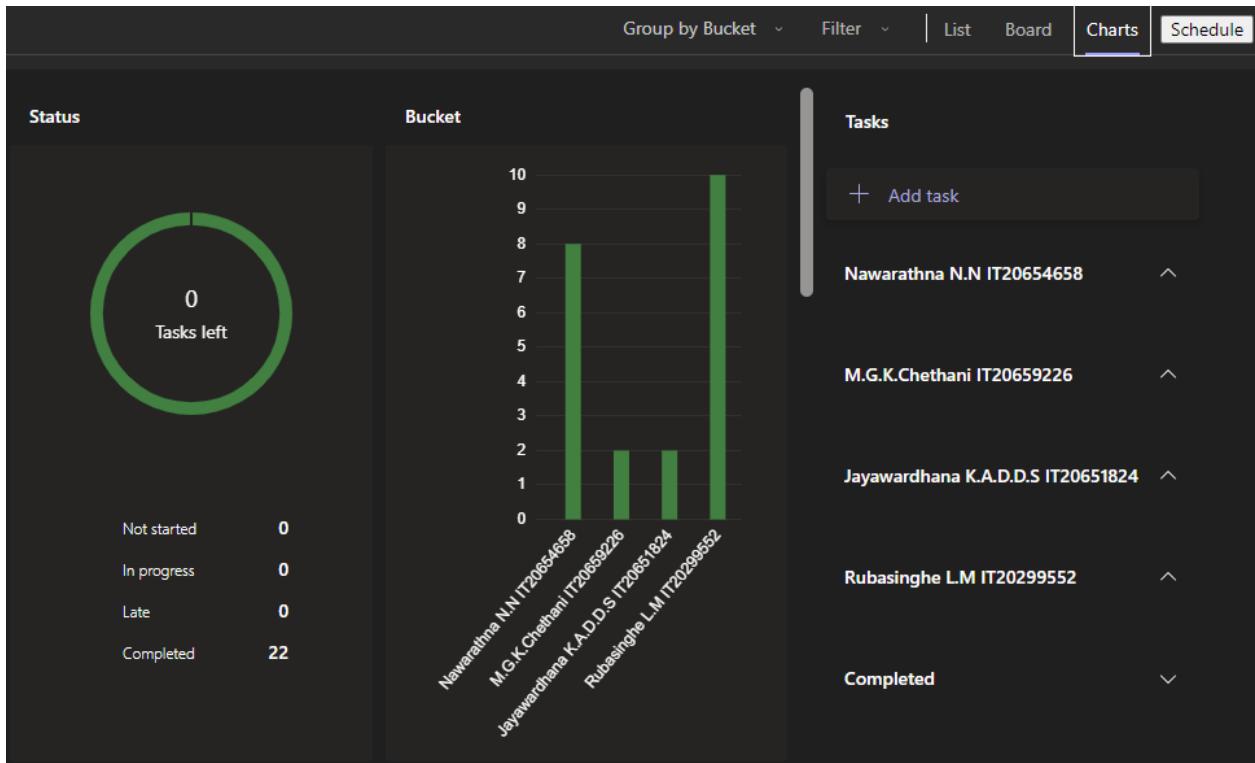
Activity Chat Teams Calendar Calls OneDrive ... All teams

Application of Ontology-Based V... Main Channels General

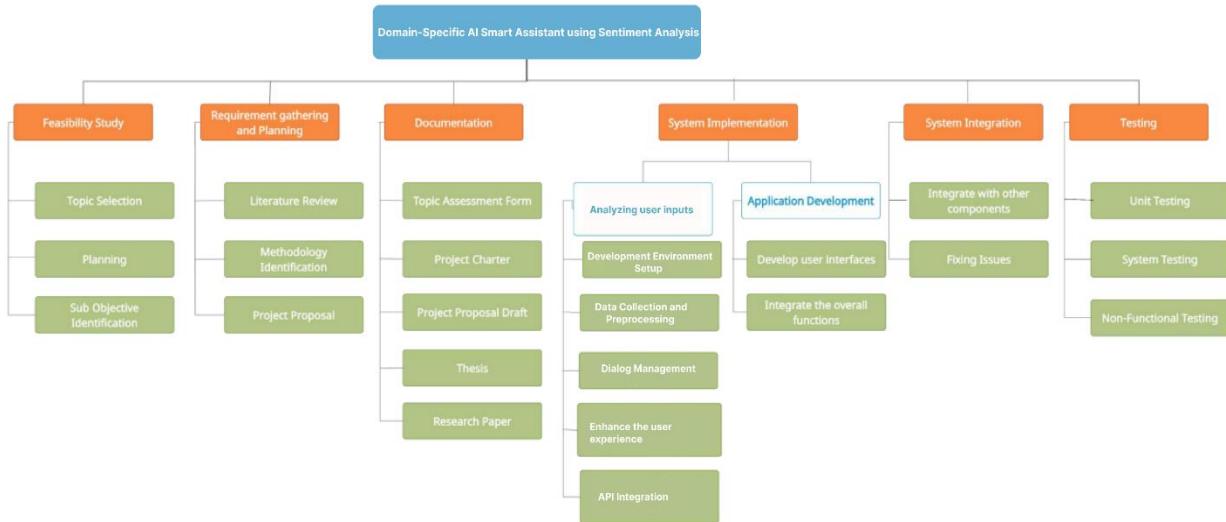
General Posts Files Cattle AID +

Completed Filter List Board Priority

Task title	Completed by
+ Add a task	
Progress Presentation-1	Rubasinghe LM it20...
Test the created model	Rubasinghe LM it20...
Create Model with collected Dataset	Rubasinghe LM it20...
Collect Data Set	Rubasinghe LM it20...
Create Individual Proposal Document	Rubasinghe LM it20...
Create Individual Component Diagram	Rubasinghe LM it20...

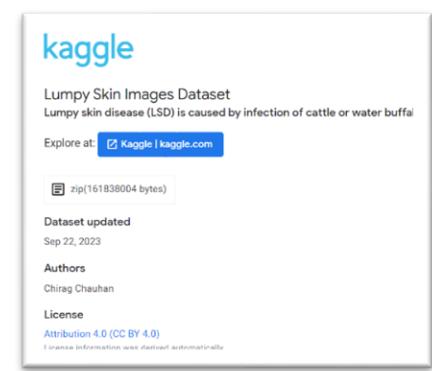
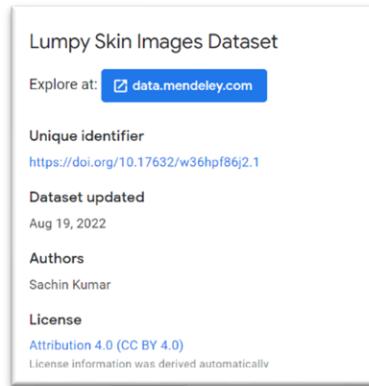


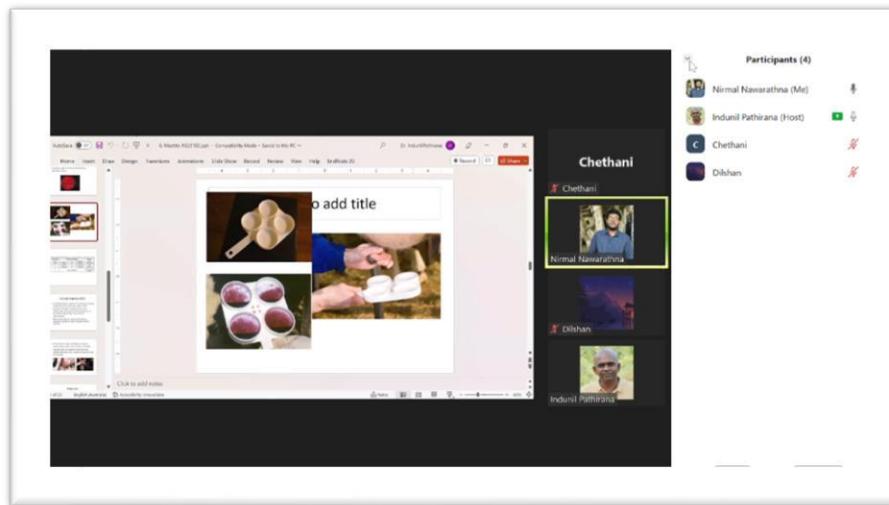
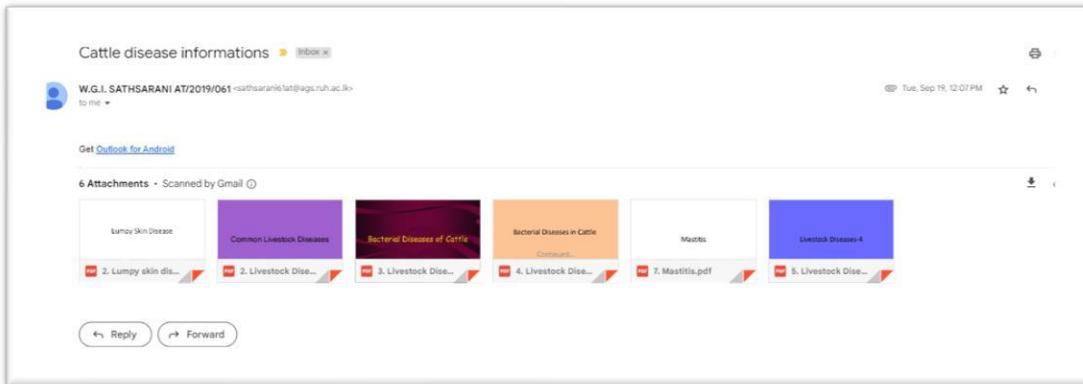
## 5. Work Breakdown Chart



6. Updated Gantt chart of finalize Design & implementation phases.

## 7. Data Collections





# **Application of Ontology-Base Veterinary Information Extraction for Cattle Skin Disease Diagnosis**

2023-24-001

Status Document - 02

Jayawardhana K.A.D.D.S

B.Sc. (Hons) Degree in Information Technology Specializing in Software  
Engineering

Department of Information Technology

Sri Lanka Institute of Information Technology

Sri Lanka

March 2024

# **Application of Ontology-Base Veterinary Information Extraction for Cattle Skin Disease Diagnosis**

2023-24-001

Status Document - 02

Jayawardhana K.A.D.D.S

IT20651824

Mrs. Suranjini Silva  
Dr. Anuradha Jayakody

B.Sc. (Hons) Degree in Information Technology

Department of Information Technology  
Sri Lanka Institute of Information Technology  
Sri Lanka

March 2024

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## Introduction

In the dynamic landscape of veterinary medicine, technological innovations have emerged as crucial tools for addressing the challenges faced by livestock industries. In this context, our research endeavours to revolutionize the diagnosis and management of cattle skin diseases through the integration of advanced technologies and domain-specific knowledge. Our research topic, "Application of Ontology-Based Veterinary Information Extraction for Cattle Skin Disease Diagnosis," encapsulates a multidimensional approach that harnesses the power of artificial intelligence (AI) and ontology-based information extraction to enhance the understanding and handling of cattle skin diseases.

- Author Details:

1. Author Name – Jayawardhana K.A.D.D.S
2. Student ID – IT20651824
3. Research objective – **Ontology-Based Information Extraction System for Educating Cattle Domain and Small Scale Farmers in Sri Lanka**

### Group Details:

Member Name	Student ID
M.G.K.Chethani. (Leader)	IT20659226
Nawarathna N.N	IT20654658
Jayawardhana K.A.D.D.S	IT20651824
Rubasinghe L.M	IT20299552

## 1. MS Teams Details

### 1.1. Teams and the Members

The screenshot shows the Microsoft Teams interface for a team named "Application of Ontology-Based Veterinary Information Extraction". The left sidebar includes icons for Activity, Chat, Teams, Assignments, Calendar, Calls, Files, and Apps. The main area displays the team's logo (a cow) and name. A search bar at the top right is labeled "Search". Below the team name, tabs for "Members", "Pending Requests", "Channels", "Settings", "Analytics", "Apps", and "Tags" are visible. A blue button labeled "Add member" is located on the right. The "Members" tab is selected, showing a table with columns: Name, Title, Location, Tags, and Role. Under the "Owners" section, four members are listed:

Name	Title	Location	Tags	Role
Chethani M.G.K. it206...				Owner
Nawarathna N.N. it20...				Owner
Jayawardhana K.A.D.D...				Owner
Rubasinghe L.M it202...				Owner

A link "Members and guests(0)" is also present.

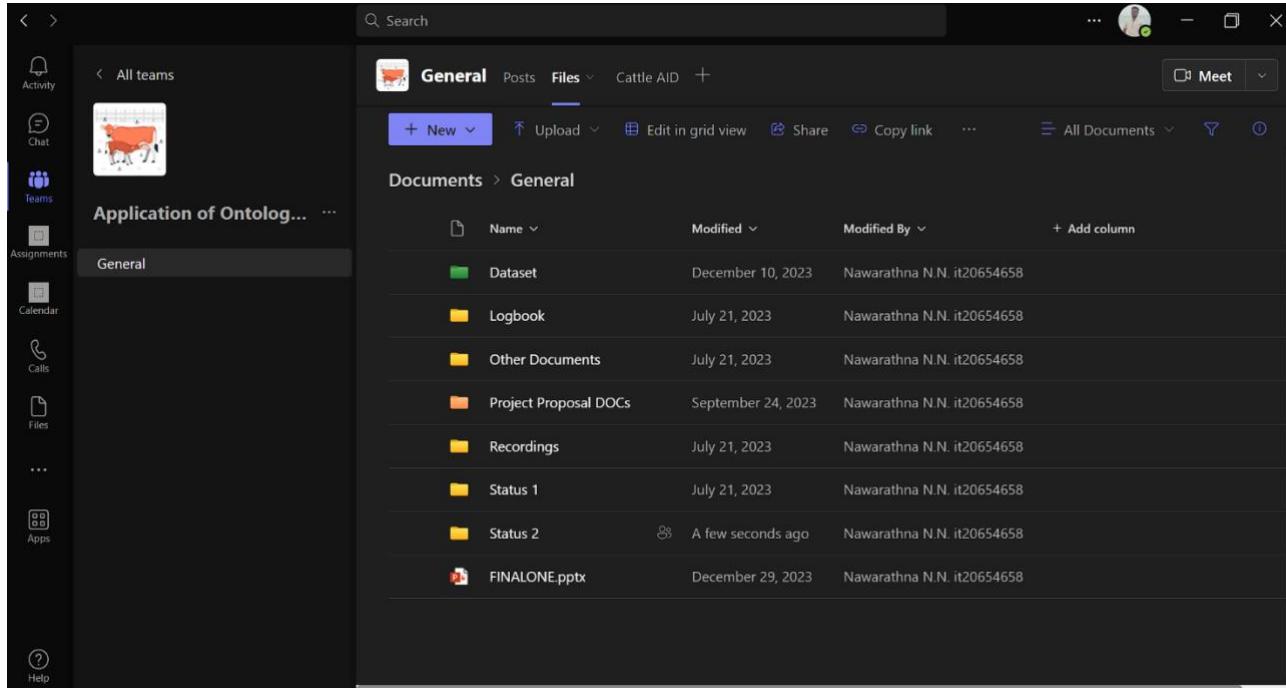
### 1.2. Teams calls with the Members

The screenshot shows a Microsoft Teams video call interface. The left sidebar is identical to the previous screenshot. The main area features a large yellow circle with the letters "CI". Below it, three participant thumbnails are shown: Chethani M.G.K. it20659226 (a man in a light shirt), Jayawardhana K.A.D.D.S. it206518... (a man in a pink shirt), and Rubasinghe L.M it20299552 (a man in a white shirt). A small thumbnail of the fourth participant is visible in the bottom right corner. The top right corner includes a "Leave" button and a dropdown menu. The bottom right corner has a "..." button.

This screenshot shows the Microsoft Teams interface for the 'General' channel of a team named 'Application of Ontology-Ba...'. The sidebar on the left includes links for Activity, Chat, Teams, Assignments, Calendar, Calls, Apps, and Help. The main area displays a post from 'Nawarathna N.N. it20654658' dated 24 September 2023, mentioning updates to a research project planning tool. Below this are three meeting logs: 'Meeting in "General" ended: 20m 8s' (24 October 2023), 'New channel meeting ended: 24m 53s' (30 October 2023), and 'Meeting ended: 23m 3s' (30 October 2023). A blue 'New conversation' button is located at the bottom right.

This screenshot shows the Microsoft Teams interface for the 'General' channel of the same team. The sidebar and layout are identical to the first screenshot. The main area shows a log of meetings: 'New channel meeting ended: 15m 11s' (2 November 2023), 'New channel meeting ended: 34m 9s' (2 November 2023), and 'Meeting in "PPT1" ended: 46m 23s' (2 November 2023). A post from 'Nawarathna N.N. it20654658' dated 13:21 includes a file attachment named 'FINALONE.pptx'. A blue 'New conversation' button is located at the bottom right.

## 2. Teams Document Sharing

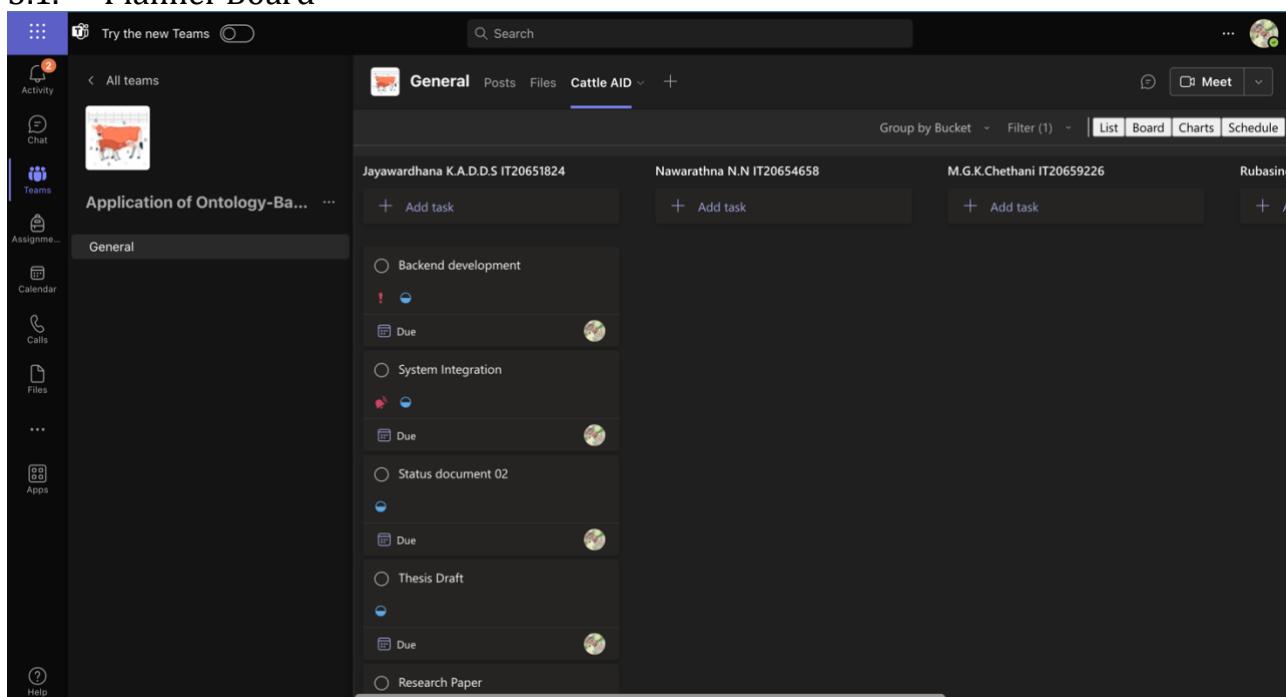


The screenshot shows the Microsoft Teams interface for document sharing. On the left, there's a sidebar with various icons for Activity, Chat, Teams, Assignments, Calendar, Calls, Files, and Apps. The main area shows a team named "General" with a profile picture of a cow. Below the team name, it says "Application of Ontology-Ba...". Under the "General" tab, there's a "Documents" section. At the top of this section, there are buttons for "+ New", "Upload", "Edit in grid view", "Share", "Copy link", and "All Documents". The "General" folder contains the following files:

Name	Modified	Modified By
Dataset	December 10, 2023	Nawarathna N.N. it20654658
Logbook	July 21, 2023	Nawarathna N.N. it20654658
Other Documents	July 21, 2023	Nawarathna N.N. it20654658
Project Proposal DOCs	September 24, 2023	Nawarathna N.N. it20654658
Recordings	July 21, 2023	Nawarathna N.N. it20654658
Status 1	July 21, 2023	Nawarathna N.N. it20654658
Status 2	A few seconds ago	Nawarathna N.N. it20654658
FINALONE.pptx	December 29, 2023	Nawarathna N.N. it20654658

## 3. Teams Planner

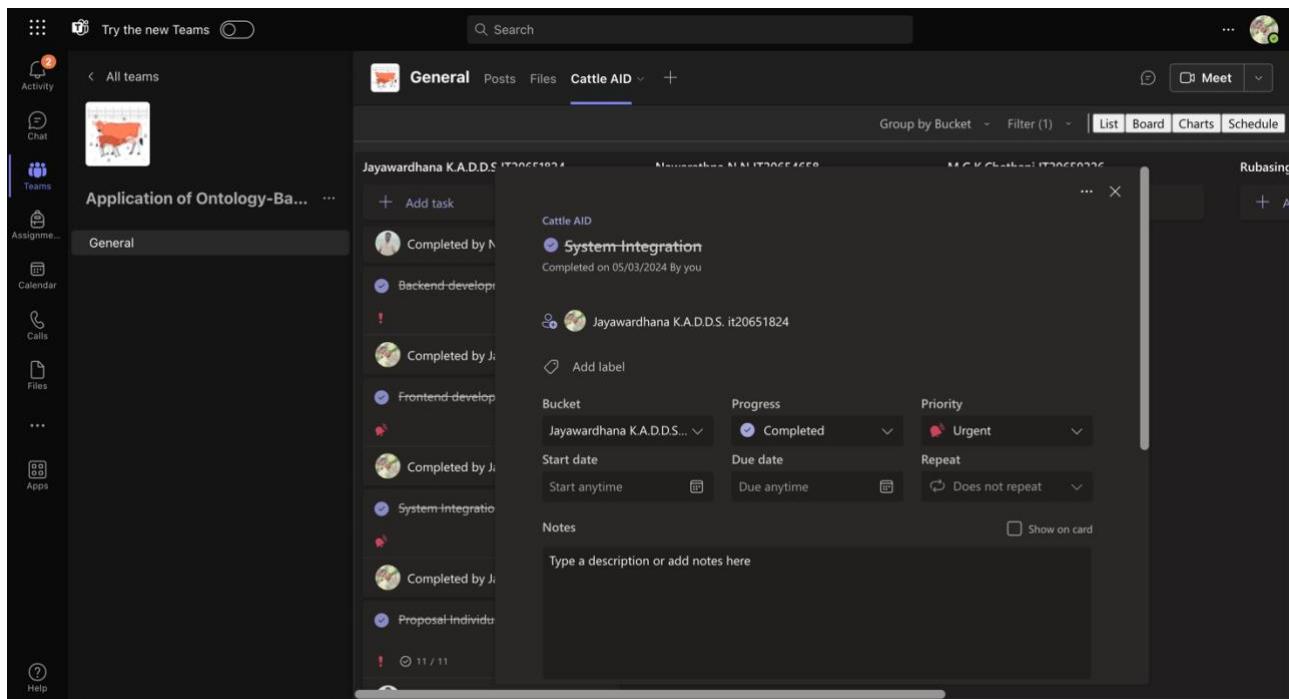
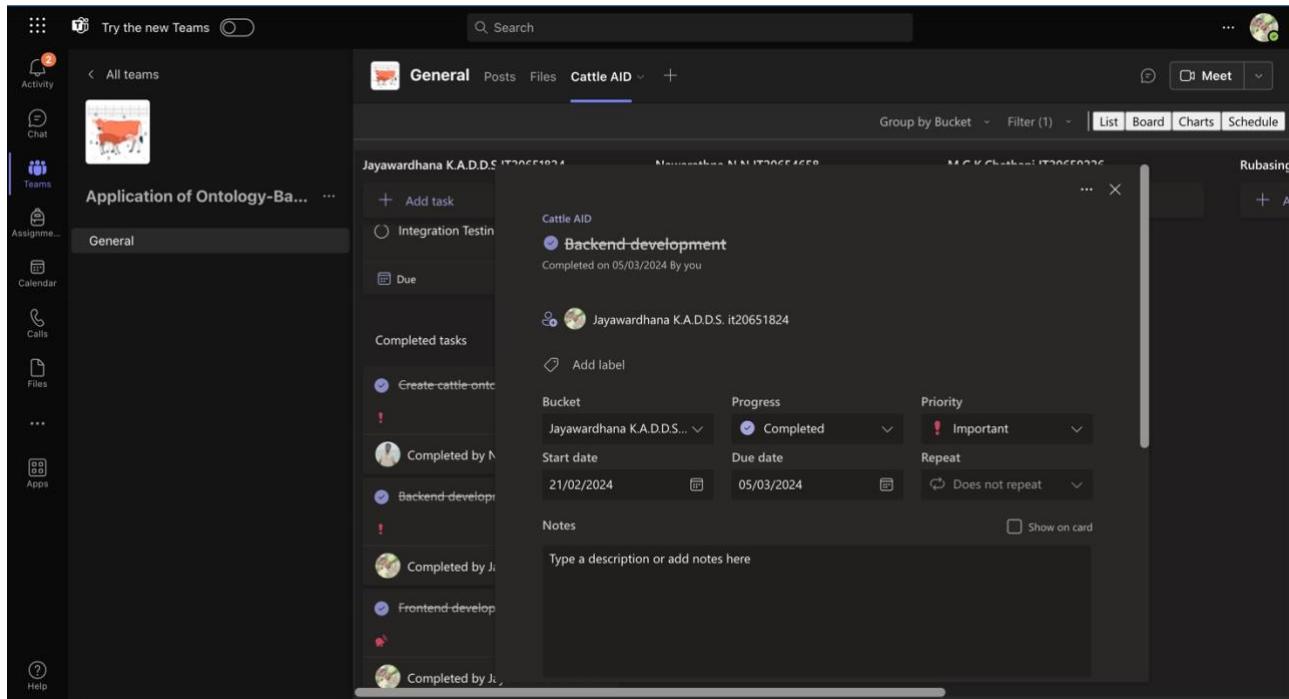
### 3.1. Planner Board

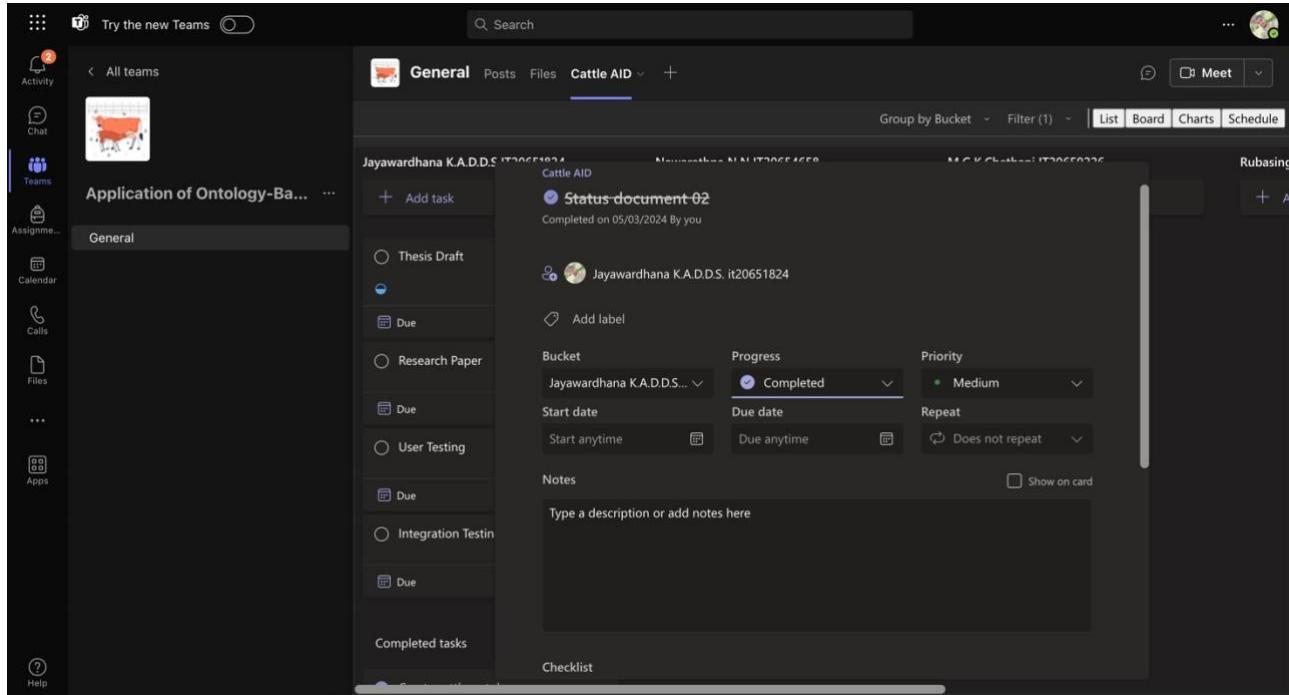


The screenshot shows the Microsoft Teams Planner Board. The sidebar on the left includes Activity, Chat, Teams, Assignments, Calendar, Calls, Files, and Apps. The main area displays a board for the "General" team, which has a profile picture of a cow. Below the team name, it says "Application of Ontology-Ba...". The board is organized into four columns representing different users:

- Jayawardhana K.A.D.D.S IT20651824**: Contains tasks like "Backend development" (Due), "System Integration" (Due), "Status document 02" (Due), "Thesis Draft" (Due), and "Research Paper" (Due).
- Nawarathna N.N IT20654658**: Contains tasks like "Backend development" (Due), "System Integration" (Due), "Status document 02" (Due), "Thesis Draft" (Due), and "Research Paper" (Due).
- M.G.K.Chethani IT20659226**: Contains tasks like "Backend development" (Due), "System Integration" (Due), "Status document 02" (Due), "Thesis Draft" (Due), and "Research Paper" (Due).
- Rubasinghe S.D.S IT20659226**: Contains tasks like "Backend development" (Due), "System Integration" (Due), "Status document 02" (Due), "Thesis Draft" (Due), and "Research Paper" (Due).

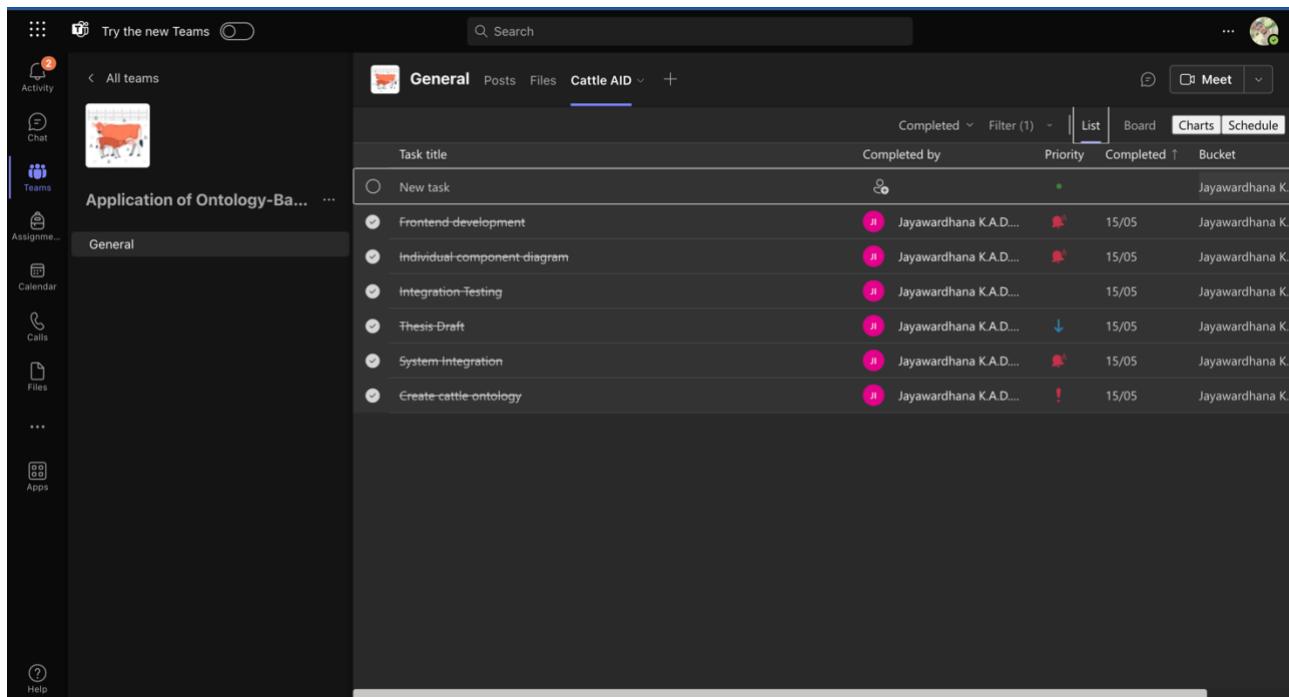
At the bottom of the board, there are buttons for "Add task" and "Group by Bucket" and "Filter (1)". There are also tabs for "List", "Board", "Charts", and "Schedule".





A screenshot of the Microsoft Teams application interface. On the left, a sidebar shows various team and communication options like Activity, Chat, Teams, Assignments, Calendar, Calls, Files, and Apps. The main area shows a team named "General" with a profile picture of a cow. A sub-team "Cattle AID" is selected. A modal window is open for creating a task. The task title is "Status document-02". The "Progress" dropdown is set to "Completed". The "Priority" is set to "Medium". The "Bucket" is "Jayawardhana K.A.D.D.S. it20651824". The "Due date" is set to "Completed on 05/03/2024 By you". The "Notes" field contains the placeholder "Type a description or add notes here".

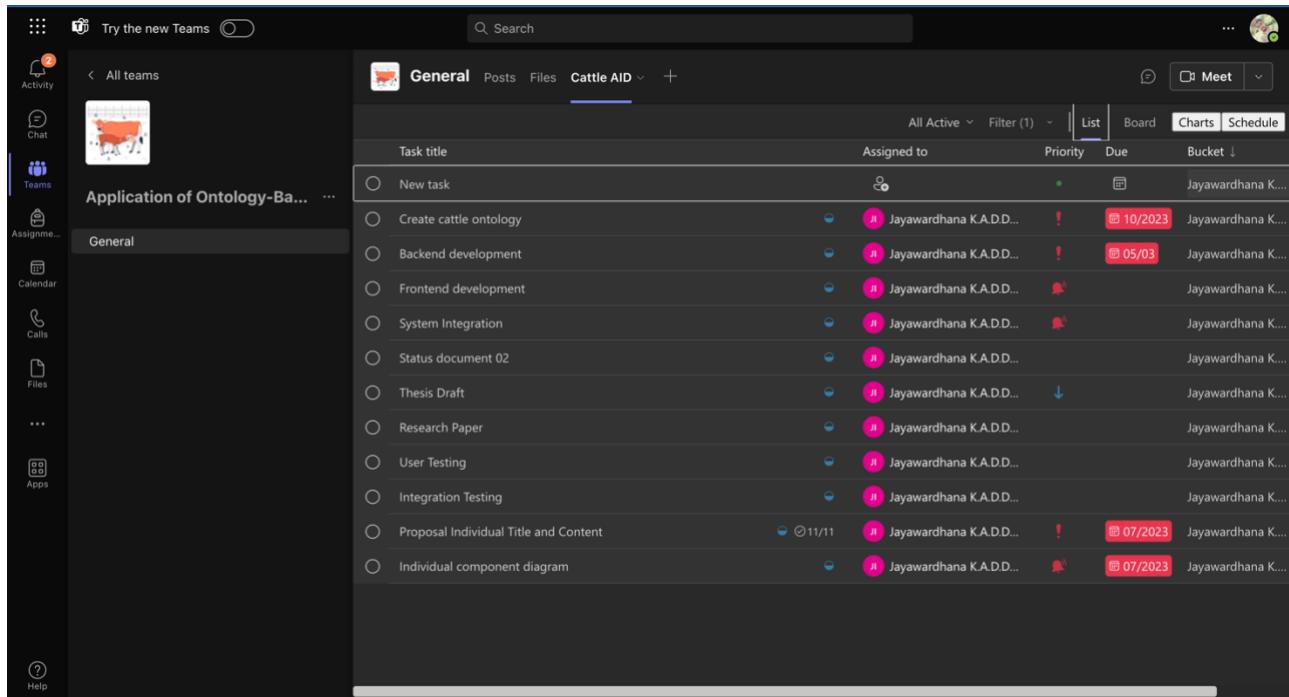
### 3.2. Completed Tasks



A screenshot of the Microsoft Teams application interface showing a list of completed tasks. The tasks are listed in a table format:

Task title	Completed by	Priority	Completed	Bucket
New task	Jayawardhana K.A.D.D.S. it20651824	Medium	15/05	Jayawardhana K.A.D.D.S. it20651824
Frontend development	Jayawardhana K.A.D.D.S. it20651824	Medium	15/05	Jayawardhana K.A.D.D.S. it20651824
Individual component diagram	Jayawardhana K.A.D.D.S. it20651824	Medium	15/05	Jayawardhana K.A.D.D.S. it20651824
Integration Testing	Jayawardhana K.A.D.D.S. it20651824	Medium	15/05	Jayawardhana K.A.D.D.S. it20651824
Thesis Draft	Jayawardhana K.A.D.D.S. it20651824	Medium	15/05	Jayawardhana K.A.D.D.S. it20651824
System Integration	Jayawardhana K.A.D.D.S. it20651824	Medium	15/05	Jayawardhana K.A.D.D.S. it20651824
Create cattle ontology	Jayawardhana K.A.D.D.S. it20651824	Medium	15/05	Jayawardhana K.A.D.D.S. it20651824

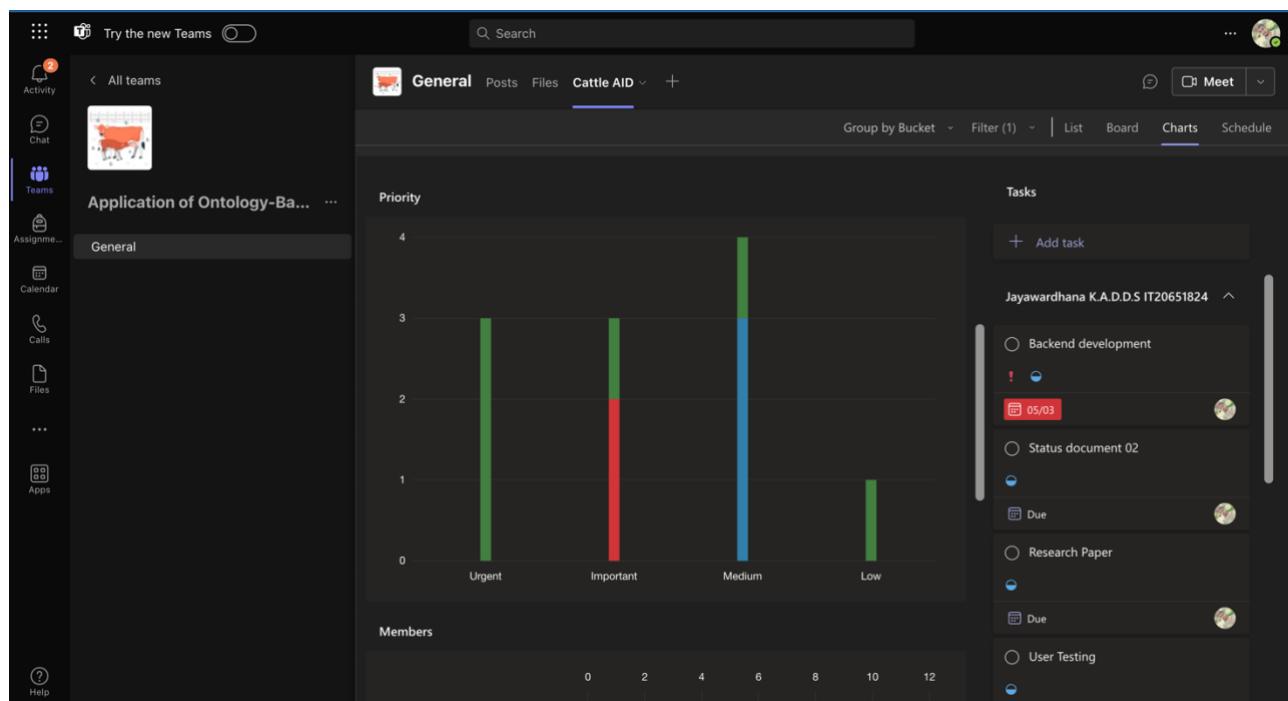
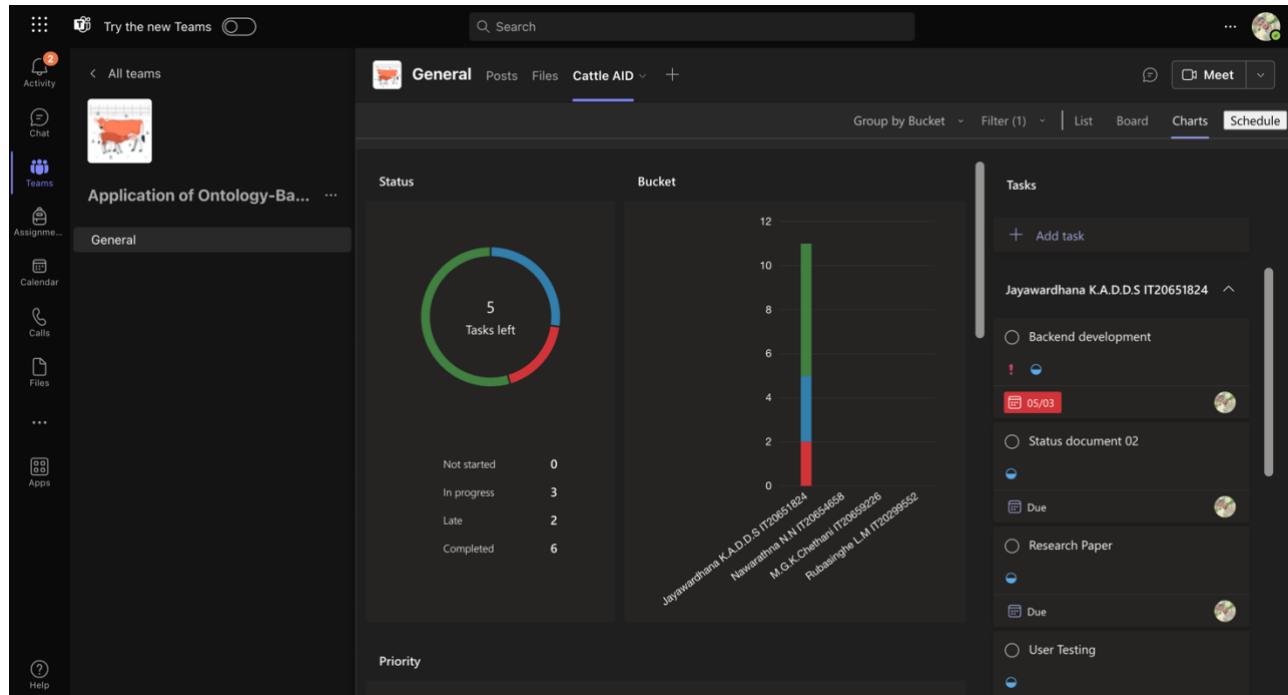
### 3.3. In Progress Tasks in Planner



The screenshot shows the Microsoft Teams Planner interface. On the left, there's a sidebar with various team and communication links. The main area displays a list of tasks under the 'General' tab of a team named 'Cattle AID'. The tasks are listed in a table with columns for Task title, Assigned to, Priority, Due date, and Bucket.

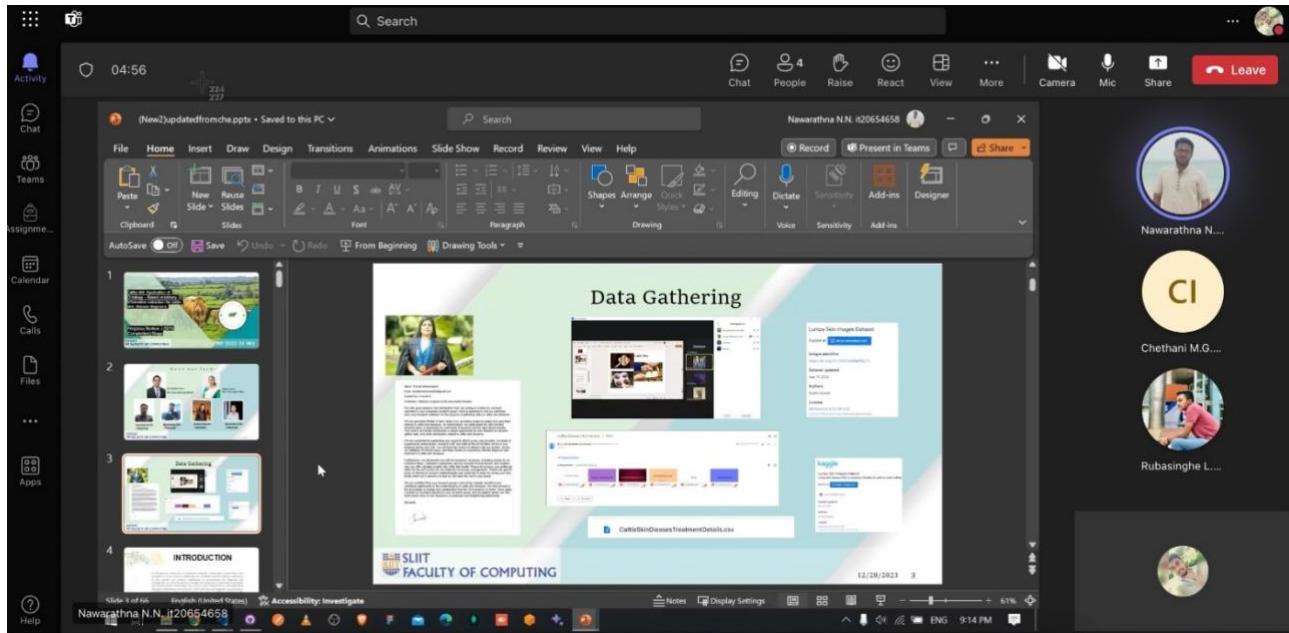
Task title	Assigned to	Priority	Due	Bucket
New task	Jayawardhana K.A.D.D.	●		Jayawardhana K...
Create cattle ontology	Jayawardhana K.A.D.D...	!	10/2023	Jayawardhana K...
Backend development	Jayawardhana K.A.D.D...	!	05/03	Jayawardhana K...
Frontend development	Jayawardhana K.A.D.D...	!		Jayawardhana K...
System Integration	Jayawardhana K.A.D.D...	!		Jayawardhana K...
Status document 02	Jayawardhana K.A.D.D...			Jayawardhana K...
Thesis Draft	Jayawardhana K.A.D.D...	!		Jayawardhana K...
Research Paper	Jayawardhana K.A.D.D...	!		Jayawardhana K...
User Testing	Jayawardhana K.A.D.D...	!		Jayawardhana K...
Integration Testing	Jayawardhana K.A.D.D...	!		Jayawardhana K...
Proposal Individual Title and Content	Jayawardhana K.A.D.D...	!	07/2023	Jayawardhana K...
Individual component diagram	Jayawardhana K.A.D.D...	!	07/2023	Jayawardhana K...

### 3.4. Teams Planner Charts





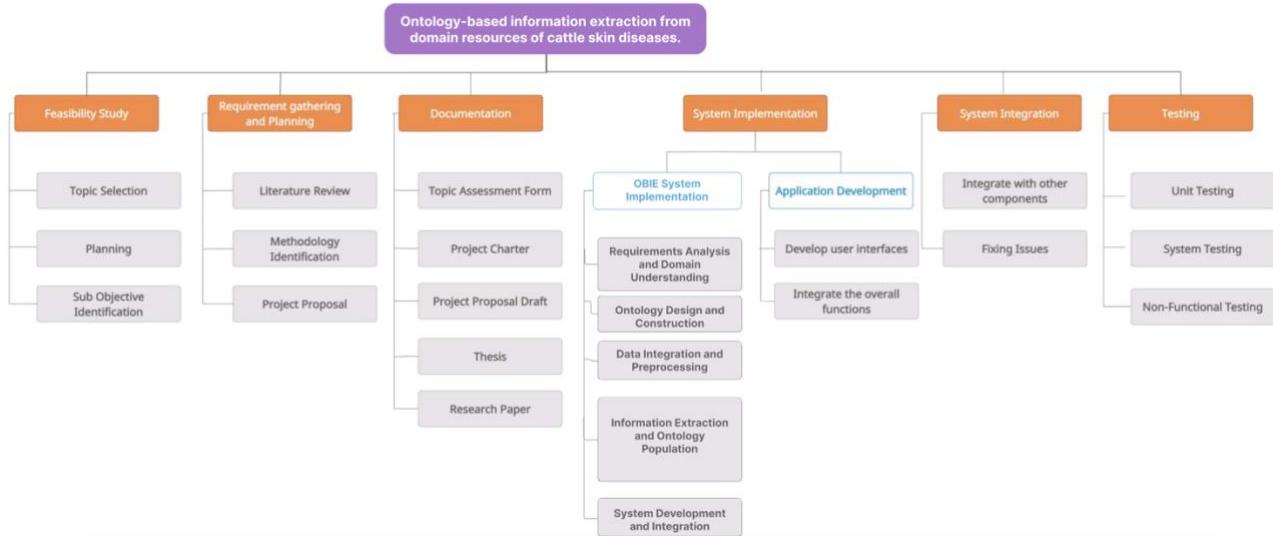
## 4. Google Meet Meetings



## 5. Emails

A screenshot of an email interface. The recipient is Chethani M.G.K. it20659226, and the message is addressed to Suranjini Silva. The subject line is "Ontology based information ...". The message body starts with "Hi Madam," followed by "Here is our research paper can you review it and give feedback to us?". Below that, there is a signature that says "thank you," and "Best regards". At the bottom of the message, there are two buttons: "Reply" and "Forward". There is also a large empty text area for a reply message.

## 6. Gantt Chart



## 7. Work Breakdown Structure

Task	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
Feasibility Study	1											
Topic Selection	1											
Evaluation on research gap		1										
Environmental Setup		1	2	3	4							
Requirement gathering		1	2	3	4							
Background survey		1	2	3	4							
Literature review		1	2	3	4							
Functional and non-functional requirements		1	2	3	4							
Proposal draft		1	2	3	4							
Project Proposal		1	2	3	4							
Proposal Presentation		1	2	3	4							
Proposal Report		1	2	3	4							
Project Initialization		1	2	3	4							
Data Gathering		1	2	3	4							
Selecting Algorithms and Technologies		1	2	3	4							
Design user interfaces for web application		1	2	3	4							
Project Implementation		1	2	3	4	5	6	7	8	9	10	11
Data Understanding		1	2	3	4	5	6	7	8	9	10	11
Data Preprocessing		1	2	3	4	5	6	7	8	9	10	11
Exploratory Data Analysis		1	2	3	4	5	6	7	8	9	10	11
Feature Engineering		1	2	3	4	5	6	7	8	9	10	11
Model Building & training		1	2	3	4	5	6	7	8	9	10	11
Developing the user interface and user interactivity for web application		1	2	3	4	5	6	7	8	9	10	11
Developing the backend logic for web application		1	2	3	4	5	6	7	8	9	10	11
Research paper		1	2	3	4	5	6	7	8	9	10	11
Developing the frontend interfaces and interactivity of the web application		1	2	3	4	5	6	7	8	9	10	11
Testing		1	2	3	4	5	6	7	8	9	10	11
Unit Testing		1	2	3	4	5	6	7	8	9	10	11
Integration Testing		1	2	3	4	5	6	7	8	9	10	11
System Testing		1	2	3	4	5	6	7	8	9	10	11
Defect Fixing		1	2	3	4	5	6	7	8	9	10	11
User Testing		1	2	3	4	5	6	7	8	9	10	11
Final Document Presentation and Viva		1	2	3	4	5	6	7	8	9	10	11
Final Report		1	2	3	4	5	6	7	8	9	10	11
Final Presentation and Viva		1	2	3	4	5	6	7	8	9	10	11

# **Application of Ontology-Base Veterinary Information Extraction for Cattle Skin Disease Diagnosis**

2023-24-001

Status Document - 02

Nawarathna N.N

B.Sc. (Hons) Degree in Information Technology Specializing in Software Engineering

Department of Information Technology

Sri Lanka Institute of Information Technology

Sri Lanka

March 2024

# **Application of Ontology-Base Veterinary Information Extraction for Cattle Skin Disease Diagnosis**

2023-24-001

Status Document - 02

Nawarathna N.N

IT20654658

Mrs. Suranjini Silva  
Dr. Anuradha Jayakody

B.Sc. (Hons) Degree in Information Technology

Department of Information Technology  
Sri Lanka Institute of Information Technology  
Sri Lanka

March 2024

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## Introduction

In the dynamic landscape of veterinary medicine, technological innovations have emerged as crucial tools for addressing the challenges faced by livestock industries. In this context, our research endeavours to revolutionize the diagnosis and management of cattle skin diseases through the integration of advanced technologies and domain-specific knowledge. Our research topic, "Application of Ontology-Based Veterinary Information Extraction for Cattle Skin Disease Diagnosis," encapsulates a multidimensional approach that harnesses the power of artificial intelligence (AI) and ontology-based information extraction to enhance the understanding and handling of cattle skin diseases.

- Author Details:

1. Author Name – Nawarathna N.N.
2. Student ID – IT20654658
3. Research objective – **Enhanced Cattle Skin Disease Detection and Severity Assessment Using Image Processing and Advanced Models.**

### Group Details:

Member Name	Student ID
M.G.K.Chethani. (Leader)	IT20659226
Nawarathna N.N	IT20654658
Jayawardhana K.A.D.D.S	IT20651824
Rubasinghe L.M	IT20299552

# 1. MS Teams Details

## 1.1. Teams and the Members

The screenshot shows the Microsoft Teams interface for a team named "Application of Ontology-Based Veterinary Information Extraction". The left sidebar includes icons for Activity, Chat, Teams, Assignments, Calendar, and Apps. The main area displays the team's logo (a cow) and title. A search bar at the top right is labeled "Search". Below the title, tabs for "Members", "Pending Requests", "Channels", "Settings", "Analytics", "Apps", and "Tags" are visible. A blue button labeled "Add member" is located on the right. The "Members" tab is selected, showing a table with columns for Name, Title, Location, Tags, and Role. Under the "Owners" section, four members are listed, all identified as "Owner": Chethani M.G.K. it20659226, Nawarathna N.N. it206518..., Jayawardhana K.A.D.D. it20299552, and Rubasinghe L.M it20299552.

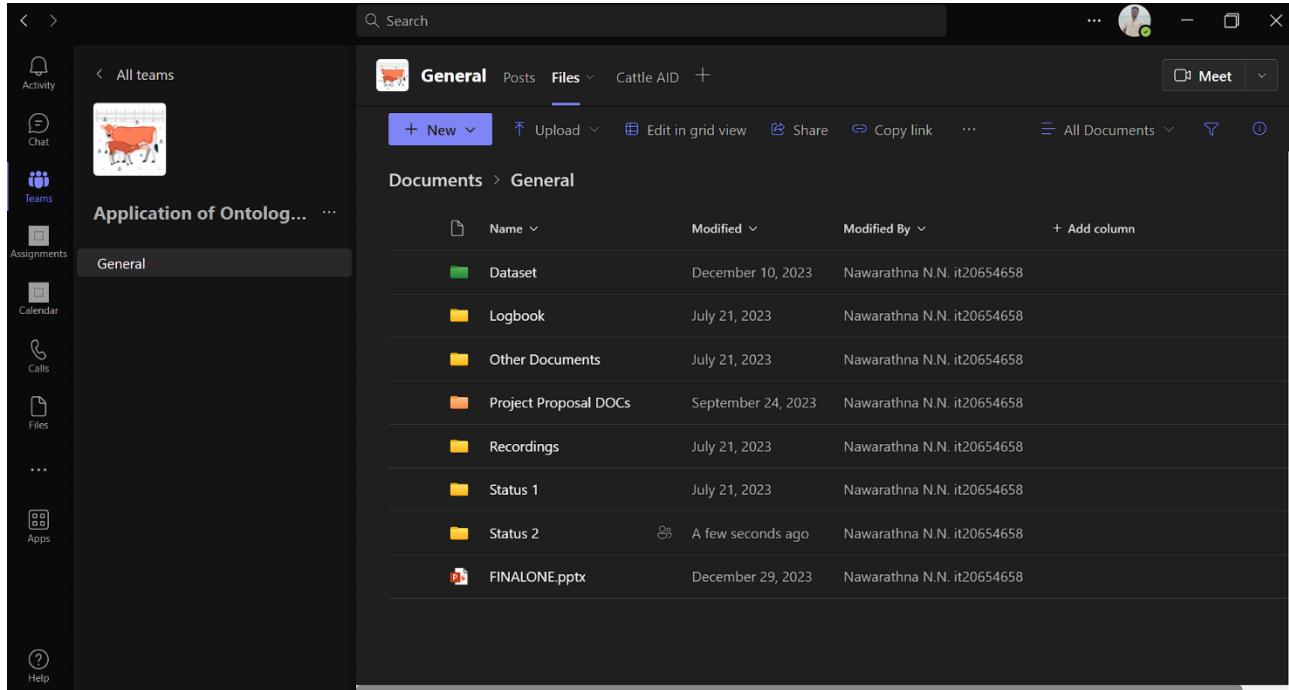
## 1.2. Teams calls with the Members

The screenshot shows a Microsoft Teams video call in progress. The top bar includes a search bar, a shield icon, and various communication buttons: Chat, People (4), Raise, React, View, More, Camera, Mic, and Share. A red "Leave" button is on the far right. The main area shows three participants: Chethani M.G.K. it20659226 (represented by a yellow circle with "CI"), Jayawardhana K.A.D.D. it206518... (a man in a light green shirt), and Rubasinghe L.M it20299552 (a man in a pink shirt). A fourth participant's video is partially visible in the bottom right corner. The left sidebar is identical to the one in the previous screenshot, featuring Activity, Chat, Teams, Assignments, Calendar, and Apps.

Screenshot of the Microsoft Teams application interface. The left sidebar shows various team channels like 'All teams', 'General', 'Assignment 1', etc. The main area is the 'General' channel of a team named 'Application of Ontology-Ba...'. A recent post from 'Nawarathna N.N. it20654658' dated 24 September 2023 mentions a meeting update. Below it, a message from 'Meeting in "General" ended: 20m 8s' is shown. Another message from 'New channel meeting ended: 24m 53s' follows. On October 30, 2023, a message from 'Meeting ended: 23m 3s' is shown. A blue button at the bottom right says 'New conversation'.

Screenshot of the Microsoft Teams application interface, similar to the first one but with different activity. The 'General' channel shows a message from 'New channel meeting ended: 15m 11s' and another from 'New channel meeting ended: 34m 9s', both dated November 2, 2023. A message from 'Meeting in "PPT1" ended: 46m 23s' is also present. A message from 'Nawarathna N.N. it20654658' dated 13:21 includes a file attachment named 'FINALONE.pptx'. A blue button at the bottom right says 'New conversation'.

## 2. Teams Document Sharing

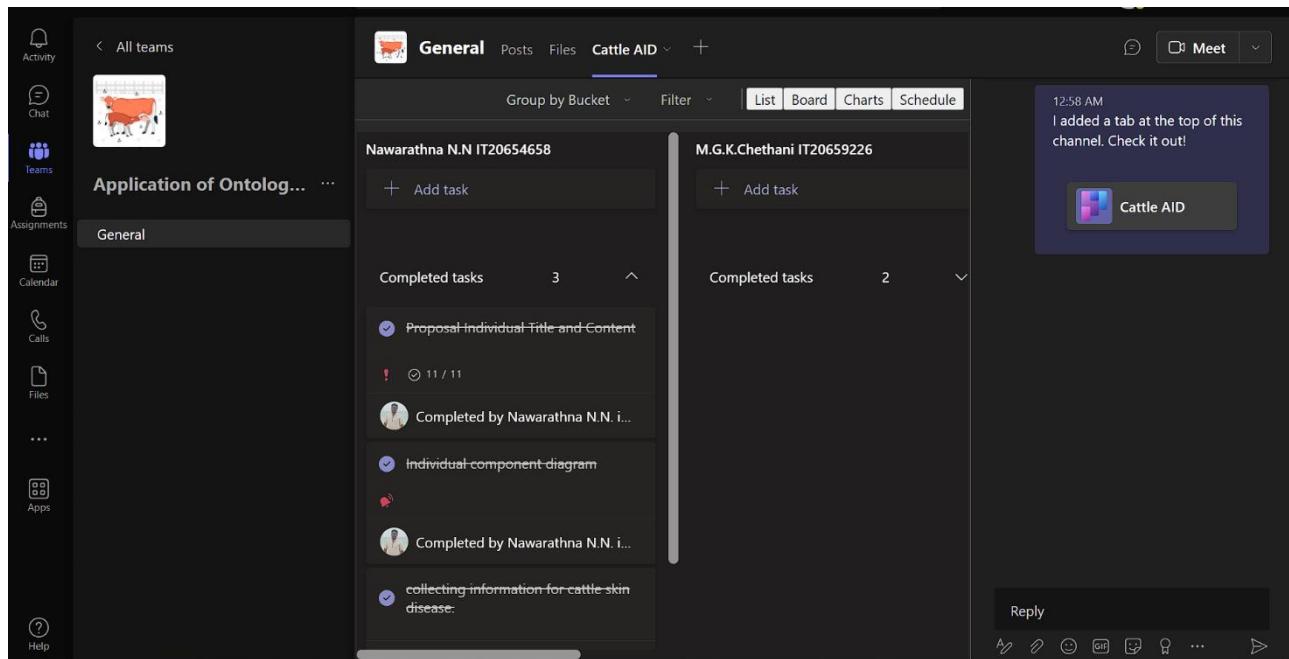


The screenshot shows the Microsoft Teams interface for document sharing. On the left, the sidebar includes icons for Activity, Chat, Teams, Assignments, Calendar, Calls, Files, and Apps. The main area displays a channel named "General" under "Cattle AID". The "Files" tab is selected, showing a list of documents. The list includes:

Name	Modified	Modified By
Dataset	December 10, 2023	Nawarathna N.N. it20654658
Logbook	July 21, 2023	Nawarathna N.N. it20654658
Other Documents	July 21, 2023	Nawarathna N.N. it20654658
Project Proposal DOCs	September 24, 2023	Nawarathna N.N. it20654658
Recordings	July 21, 2023	Nawarathna N.N. it20654658
Status 1	July 21, 2023	Nawarathna N.N. it20654658
Status 2	A few seconds ago	Nawarathna N.N. it20654658
FINALONE.pptx	December 29, 2023	Nawarathna N.N. it20654658

## 3. Teams Planner

### 3.1. Planner Board



The screenshot shows the Microsoft Teams Planner Board interface. The sidebar includes icons for Activity, Chat, Teams, Assignments, Calendar, Calls, Files, and Apps. The main area displays a channel named "General" under "Cattle AID". The "Planner" tab is selected, showing two boards:

- Nawarathna N.N IT20654658**: Contains three completed tasks:
  - Proposal individual Title and Content (Completed by Nawarathna N.N. IT20654658)
  - Individual component diagram (Completed by Nawarathna N.N. IT20654658)
  - collecting information for cattle skin disease (Completed by Nawarathna N.N. IT20654658)
- M.G.K.Cethani IT20659226**: Contains two completed tasks:
  - Proposal individual Title and Content (Completed by M.G.K.Cethani IT20659226)
  - Individual component diagram (Completed by M.G.K.Cethani IT20659226)

A message from "Cattle AID" is visible on the right side of the screen:

12:58 AM  
I added a tab at the top of this channel. Check it out!

A screenshot of a Microsoft To Do task card for "Backend development". The card is titled "Backend development" and is completed on 05/03/2024 by the user. It includes a note: "Backend development using Flask Python framework". The card is part of a bucket named "Cattle AID" and has a priority of "Important". The card is listed under the "Completed tasks" section of the "General" channel.

A screenshot of a Microsoft To Do task card for "Frontend development". The card is completed on 02/03/2024 by the user. It includes a note: "Type a description or add notes here". The card is part of a bucket named "Cattle AID" and has a priority of "Important". The card is listed under the "Completed tasks" section of the "General" channel.

**Cattle AID**

Complete the pp2 PowerPoint presentation slides.

Completed on 16/03/2024 by you

Nawarathna N.N. IT20654658

Bucket: Nawarathna N.N. IT20654658 Progress: Completed Priority: Urgent

Start date: 14/02/2024 Due date: 16/03/2024 Repeat: Does not repeat

Notes: Type a description or add notes here

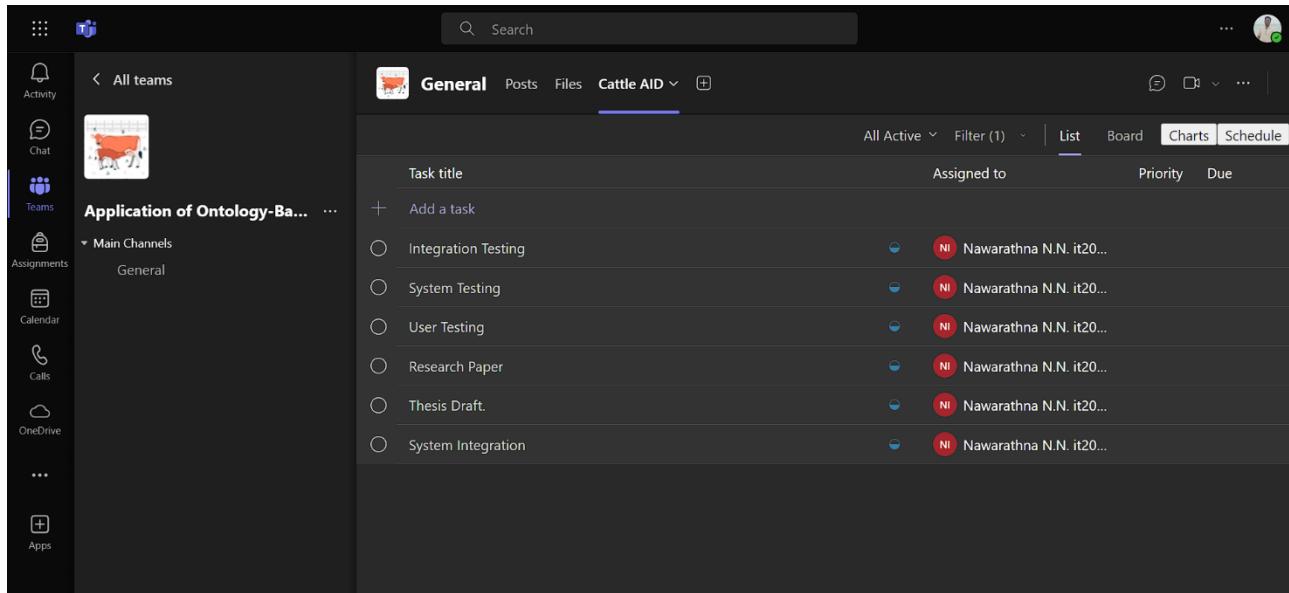
Completed tasks:

- Complete the pp2 Po... (Completed by Nawa...)
- Collect pp2 presentati...

### 3.2. Completed Tasks

Task title	Completed by	Priority	Completed	Bucket
Collect pp2 presentation details	Nawarathna N.N. IT20654658	16/04	Completed	Nawarathna N.N. ...
Complete the pp2-PowerPoint-presentation-slides	Nawarathna N.N. IT20654658	16/04	Completed	Nawarathna N.N. ...
Frontend development	Nawarathna N.N. IT20654658	16/04	Completed	Nawarathna N.N. ...
Backend development	Nawarathna N.N. IT20654658	16	Completed	Nawarathna N.N. ...
Collected PPT-01 PowerPoint presentation details	Nawarathna N.N. IT20654658	12/2023	Completed	Nawarathna N.N. ...
Create Status document 01	Nawarathna N.N. IT20654658	12/2023	Completed	Nawarathna N.N. ...
Test the dataset with model	Nawarathna N.N. IT20654658	12/2023	Completed	Nawarathna N.N. ...
Create cattle skin disease identification model	Nawarathna N.N. IT20654658	12/2023	Completed	Nawarathna N.N. ...
Gathered cattle skin disease dataset (Cattle images)	Nawarathna N.N. IT20654658	12/2023	Completed	Nawarathna N.N. ...
collecting information for cattle skin disease	Nawarathna N.N. IT20654658	12/2023	Completed	Nawarathna N.N. ...
Proposal-Individual Title and Content	Nawarathna N.N. IT20654658	07/2023	Completed	Nawarathna N.N. ...
Individual component diagram	Nawarathna N.N. IT20654658	07/2023	Completed	Nawarathna N.N. ...

### 3.3. In Progress Tasks in Planner



The screenshot shows the Microsoft Teams Planner interface. On the left, there's a sidebar with various icons for Activity, Chat, Teams, Assignments, Calendar, Calls, OneDrive, and Apps. The main area displays a team channel named "General" with a red bull icon. Below the channel name, it says "Cattle AID". The "List" tab is selected. The table header includes columns for Task title, Assigned to, Priority, and Due. There are six tasks listed, all assigned to "Nawarathna N.N. it20...".

Task title	Assigned to	Priority	Due
Integration Testing	Nawarathna N.N. it20...		
System Testing	Nawarathna N.N. it20...		
User Testing	Nawarathna N.N. it20...		
Research Paper	Nawarathna N.N. it20...		
Thesis Draft.	Nawarathna N.N. it20...		
System Integration	Nawarathna N.N. it20...		

### 3.4. Teams Planner Charts

The screenshot shows the Microsoft Teams Planner interface for the 'Cattle AID' team. On the left, the navigation bar includes Activity, Chat, Teams, Assignments, Calendar, Calls, Files, ..., Apps, and Help. The main area displays a 'General' chart. At the top, there are tabs for General, Posts, Files, Cattle AID, and a plus sign. Below the tabs are buttons for Group by Bucket, Filter (1), List, Board, Charts (selected), and Schedule.

**Status:** A donut chart titled 'Tasks left' showing 6 tasks remaining. The data is as follows:

Status	Count
Not started	0
In progress	6
Late	0
Completed	13

**Bucket:** A vertical bar chart showing task distribution across buckets. The Y-axis ranges from 14 to 20. The data is as follows:

Bucket	Count
18	1

**Tasks:** A list of tasks with due dates and assignees:

- Due (N/A) Research Paper
- Due (N/A) Integration Testing
- Due (N/A) System Testing
- Due (N/A) [User]

This screenshot shows the Microsoft Teams Planner interface for the 'Cattle AID' team, similar to the previous one but with different chart types.

The main area displays a 'Bucket' chart. The Y-axis ranges from 0 to 20. The data is as follows:

Bucket	Count
18	1

Below the chart, names are listed: Nawarathna N.N IT20654658, M.G.K.Cheethani IT20659226, Jayawardhana K.A.D.D.S IT20651824, and Rubasinghe L.M IT20299552.

**Priority:** A horizontal bar chart showing task distribution across priority levels. The X-axis lists names, and the Y-axis ranges from 0 to 20. The data is as follows:

Priority	Count
Nawarathna N.N IT20654658	18
M.G.K.Cheethani IT20659226	6
Jayawardhana K.A.D.D.S IT20651824	2
Rubasinghe L.M IT20299552	2

**Tasks:** A list of tasks with due dates and assignees:

- Due (N/A) Research Paper
- Due (N/A) Integration Testing
- Due (N/A) System Testing
- Due (N/A) [User]

The screenshot shows a Microsoft Teams interface. On the left is a sidebar with icons for Activity, Chat, Teams, Assignments, Calendar, Calls, Files, ..., Apps, and Help. The main area shows the 'General' channel under 'All teams'. The channel header includes a profile picture of a cow, the name 'General', and tabs for Posts, Files, Cattle AID, and a plus sign. Below the header are buttons for Group by Bucket, Filter (1), List, Board, Charts (which is selected), and Schedule.

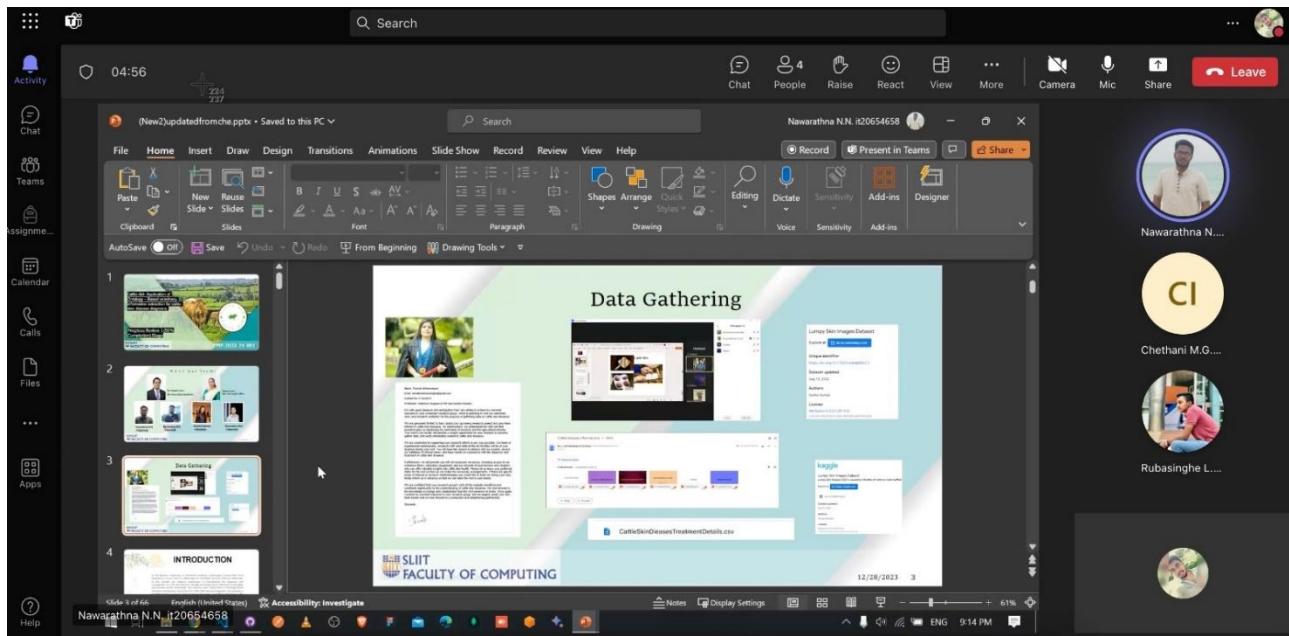
A priority chart titled 'Priority' is displayed, showing the count of tasks across four categories: Urgent, Important, Medium, and Low. The Y-axis ranges from 0 to 14. The chart shows:

Priority	Count
Urgent	2
Important	4
Medium	6
Low	0

To the right of the chart is a 'Tasks' pane. It includes a 'Add task' button and a list of six tasks, each with a due date of 'Due' and a person icon:

- Research Paper
- Integration Testing
- System Testing
- ...
- Due
- Due

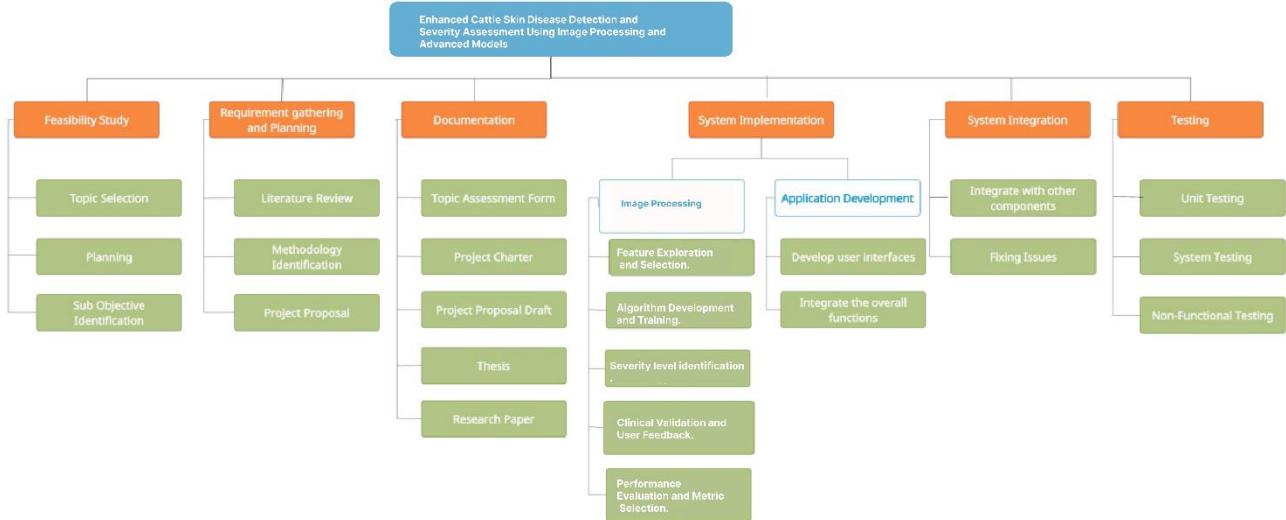
## 4. Google Meet Meetings



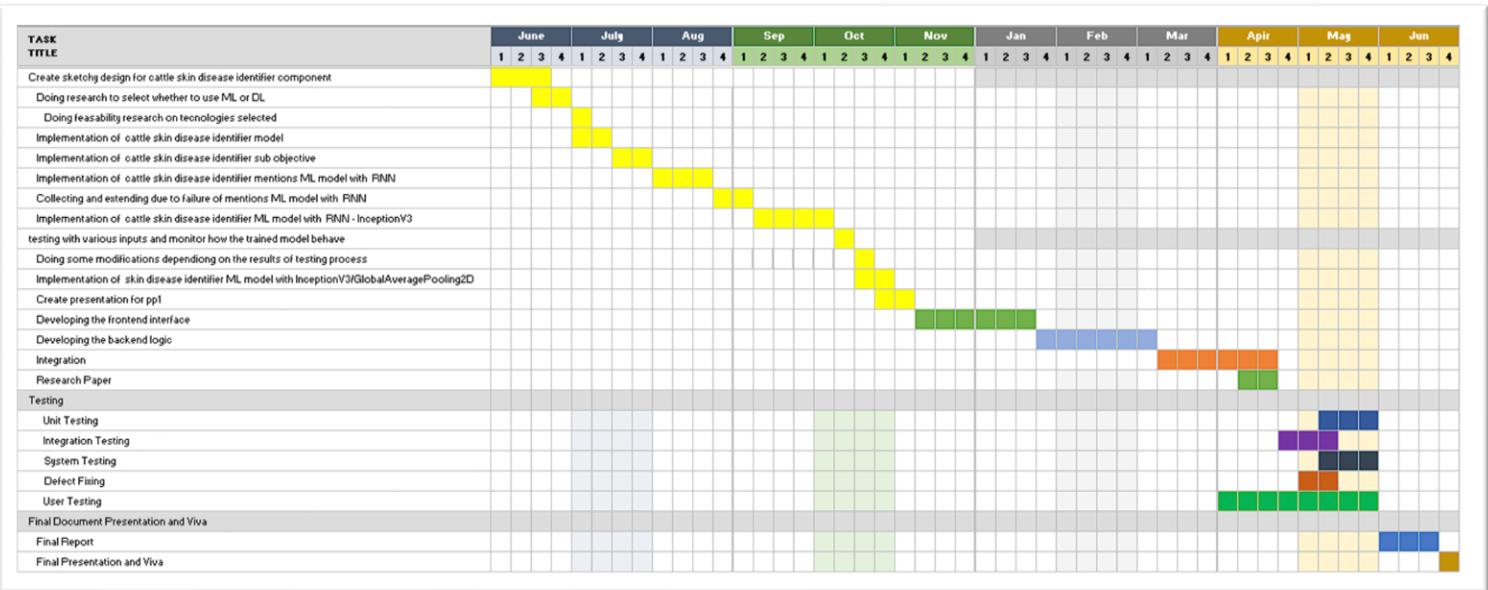
## 5. Emails

A screenshot of an email inbox. The message is from "Chethani M.G.K. it20659226" and is addressed to "Suranjini Silva". The subject of the email is "Ontology based information ...". The message body starts with "Hi Madam," followed by "Here is our research paper can you review it and give feedback to us?". Below that, there's a signature that says "thank you," and "Best regards". At the bottom of the message, there are "Reply" and "Forward" buttons. The timestamp on the message is "Sun 28/04/2024 12:55".

## 6. Gantt Chart



## 7. Work Breakdown Structure



# **Application of Ontology-Base Veterinary Information Extraction for Cattle Skin Disease Diagnosis**

2023-24-001

Status Document - 02

M.G.K.Chethani

B.Sc. (Hons) Degree in Information Technology Specializing in Software Engineering

Department of Information Technology

Sri Lanka Institute of Information Technology

Sri Lanka  
March 2024

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3.3.	In Progress Tasks in Planner.....	<b>Error! Bookmark not defined.</b>
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## 1. MS Teams Details

### 1.1. Teams and the Members

The screenshot shows the Microsoft Teams interface for a team named "Application of Ontology-Based Veterinary Information Extraction". The left sidebar has a dark theme with icons for Activity, Chat, Teams, Assignments, Calendar, Calls, Files, and Apps. The main area displays the team's logo (a cow) and name. Below the team name, there are tabs for Members, Pending Requests, Channels, Settings, Analytics, Apps, and Tags. The "Members" tab is selected, showing a search bar and a button to "Add member". Under the "Owners" section, four members are listed:

Name	Title	Location	Tags	Role
Chethani M.G.K. it206...				Owner
Nawarathna N.N. it20...				Owner
Jayawardhana K.A.D.D...				Owner
Rubasinghe L.M it202...				Owner

A link to "Members and guests(0)" is also present.

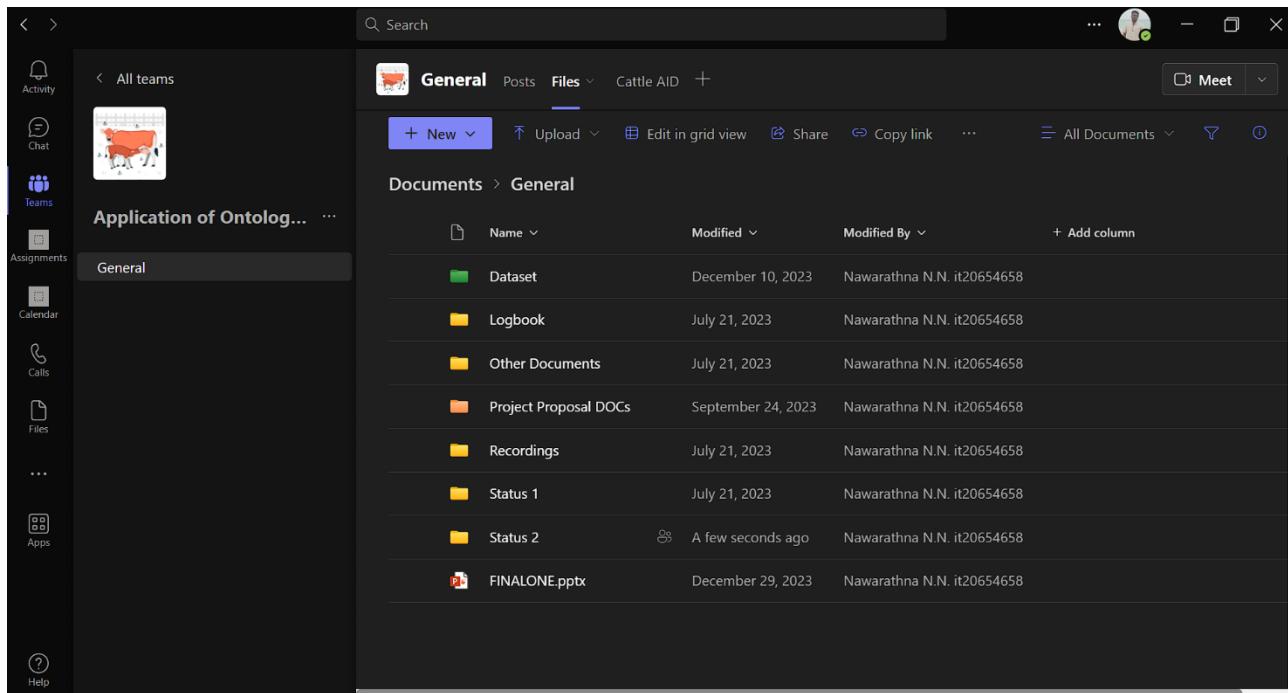
### 1.2. Teams calls with the Members

The screenshot shows a Microsoft Teams video call in progress. The left sidebar is identical to the previous screenshot. The main area shows three participants: Chethani M.G.K. it20659226 (represented by a yellow circle with a 'CI' logo), Jayawardhana K.A.D.S. it206518... (represented by a photo of a man), and Rubasinghe L.M it20299552 (represented by a photo of a man). A fourth participant's video is visible in a small preview window at the bottom right. The top bar includes standard video call controls for Chat, People, Raise, React, View, More, Camera, Mic, Share, and Leave.

This screenshot shows the Microsoft Teams interface for a team named "Application of Ontology-Ba...". The left sidebar includes links for Activity, Chat, Teams, Assignments, Calendar, Calls, Apps, and Help. The main area displays the "General" channel. A recent post from "Nawarathna N.N. it20654658" dated 24/09/09 at 02:43 discusses updating a research project planning tool. Below this, a message from "Meeting in "General"" indicates a meeting ended at 20m 8s on Monday October 16 2023. Another message from "Meeting ended" on Monday October 30 2023 shows a duration of 23m 3s. A blue "New conversation" button is located at the bottom of the channel feed.

This screenshot shows the Microsoft Teams interface for the same team. The left sidebar is identical. The main area displays the "General" channel. Recent messages show two channel meetings ended at 15m 11s and 34m 9s respectively on Thursday November 2 2023. A message from "Meeting in "PPT1"" indicates a meeting ended at 46m 23s. A post from "Nawarathna N.N. it20654658" dated 13:21 shares a file named "FINALONE.pptx". A blue "New conversation" button is located at the bottom of the channel feed.

## 2. Teams Document Sharing

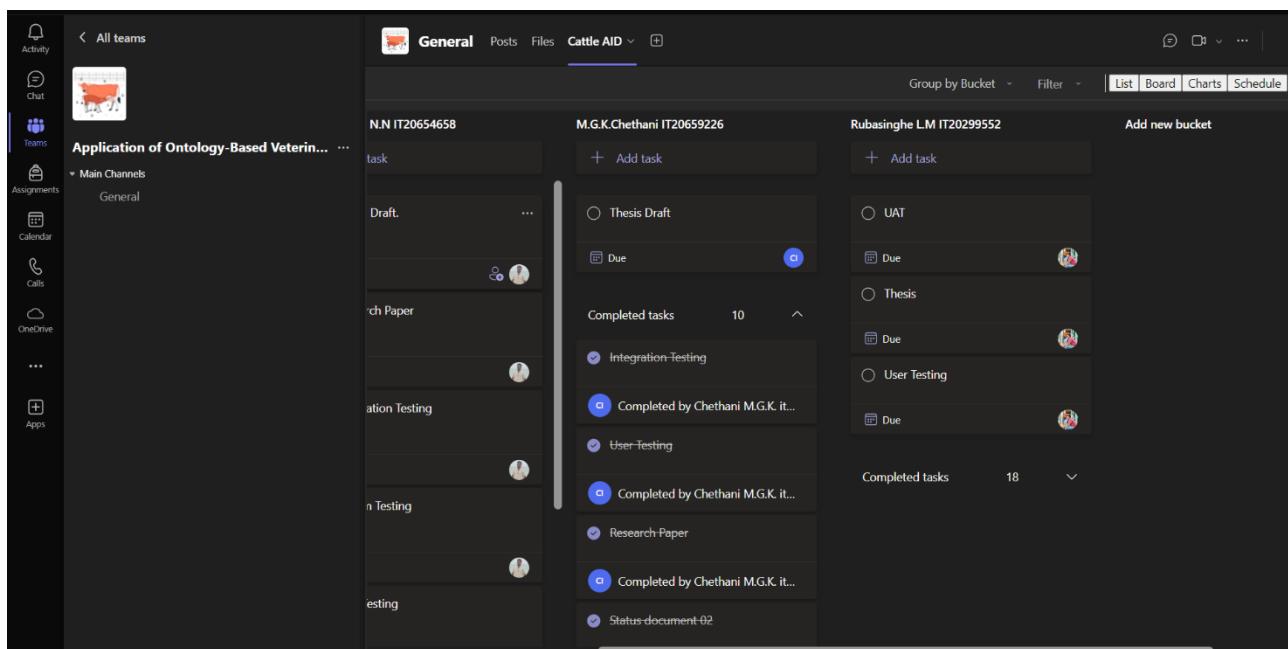


The screenshot shows the Microsoft Teams interface for document sharing. On the left, there's a sidebar with various team channels like 'All teams', 'General', 'Assignment', 'Calendar', 'Calls', 'Files', and 'Apps'. The main area shows a channel named 'General' with a cow icon. The 'Files' tab is selected, showing a list of documents. The list includes:

Name	Modified	Modified By
Dataset	December 10, 2023	Nawarathna N.N. it20654658
Logbook	July 21, 2023	Nawarathna N.N. it20654658
Other Documents	July 21, 2023	Nawarathna N.N. it20654658
Project Proposal DOCs	September 24, 2023	Nawarathna N.N. it20654658
Recordings	July 21, 2023	Nawarathna N.N. it20654658
Status 1	July 21, 2023	Nawarathna N.N. it20654658
Status 2	A few seconds ago	Nawarathna N.N. it20654658
FINALONE.pptx	December 29, 2023	Nawarathna N.N. it20654658

## 3. Teams Planner

### 3.1. Planner Board



The screenshot shows the Microsoft Teams Planner Board. It displays three columns of tasks for users 'N.N IT20654658', 'M.G.K.Chethani IT20659226', and 'Rubasinghe LM IT20299552'. The tasks are categorized by bucket:

- N.N IT20654658:**
  - Draft
  - Research Paper
  - Integration Testing
  - User Testing
  - Testing
- M.G.K.Chethani IT20659226:**
  - + Add task
  - Thesis Draft
  - Due
  - Completed tasks: 10
  - Integration Testing
  - Completed by Chethani M.G.K. it...
  - User Testing
  - Completed by Chethani M.G.K. it...
  - Research Paper
  - Completed by Chethani M.G.K. it...
  - Status document 02
- Rubasinghe LM IT20299552:**
  - + Add task
  - UAT
  - Due
  - Thesis
  - Due
  - User Testing
  - Due
  - Completed tasks: 18

The screenshot shows the Microsoft Teams interface on the left and a task creation dialog on the right. The dialog is titled 'Cattle AID' and contains the following fields:

- Task title:** Backend development
- Completed by:** Chethani M.G.K. it20659226
- Progress:** Completed
- Priority:** Medium
- Start date:** Start anytime
- Due date:** Due anytime
- Notes:** Type a description or add notes here
- Checklist:** Add an item

The task list on the left includes items like 'Backend development', 'Frontend development', and 'Status document'.

### 3.2. Completed Tasks

Activity

Chat

Teams

Assignments

Calendar

Calls

OneDrive

...

Apps

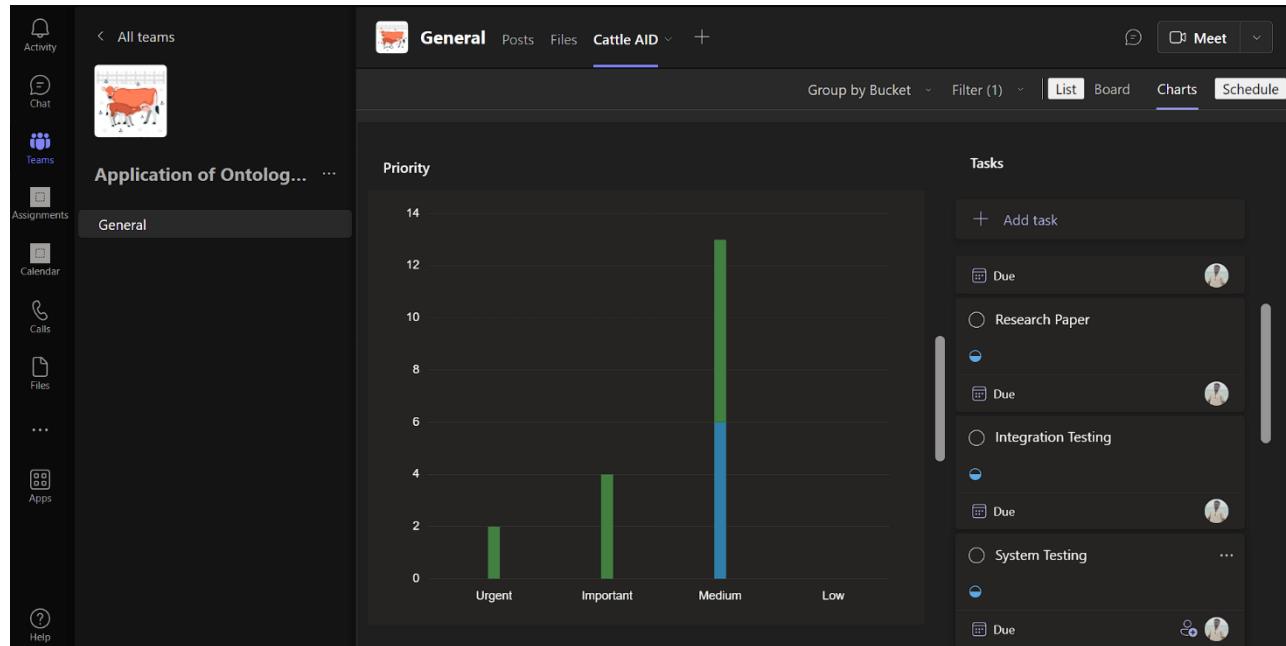
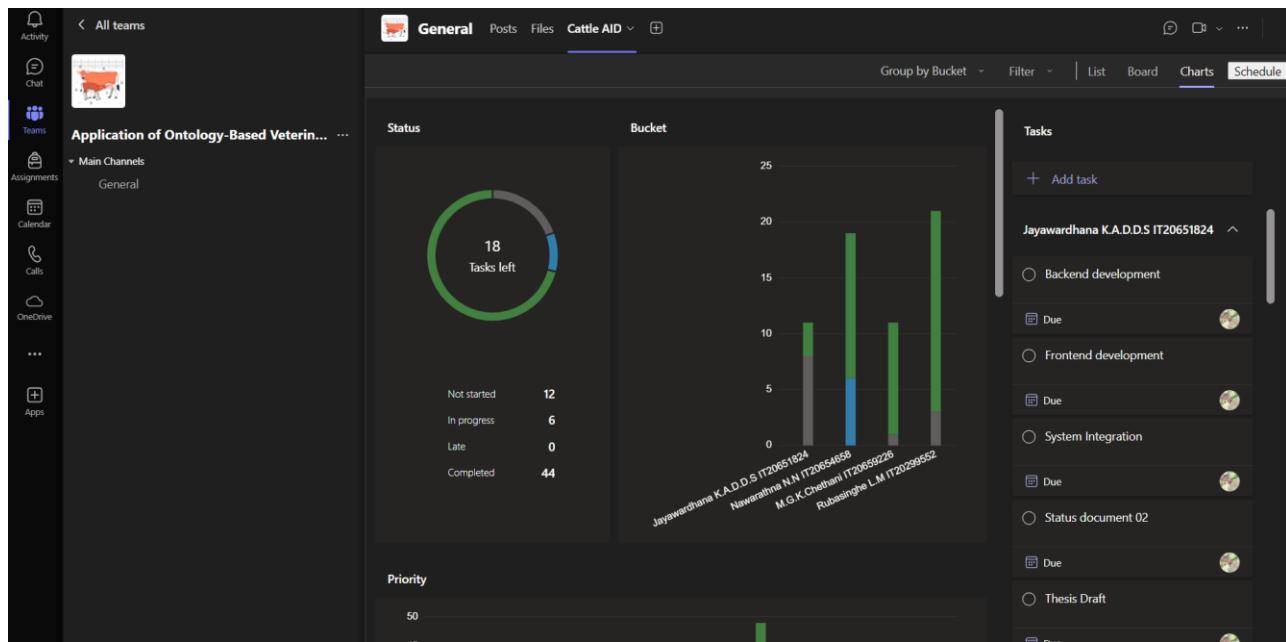
< All teams

General Posts Files Cattle AID +

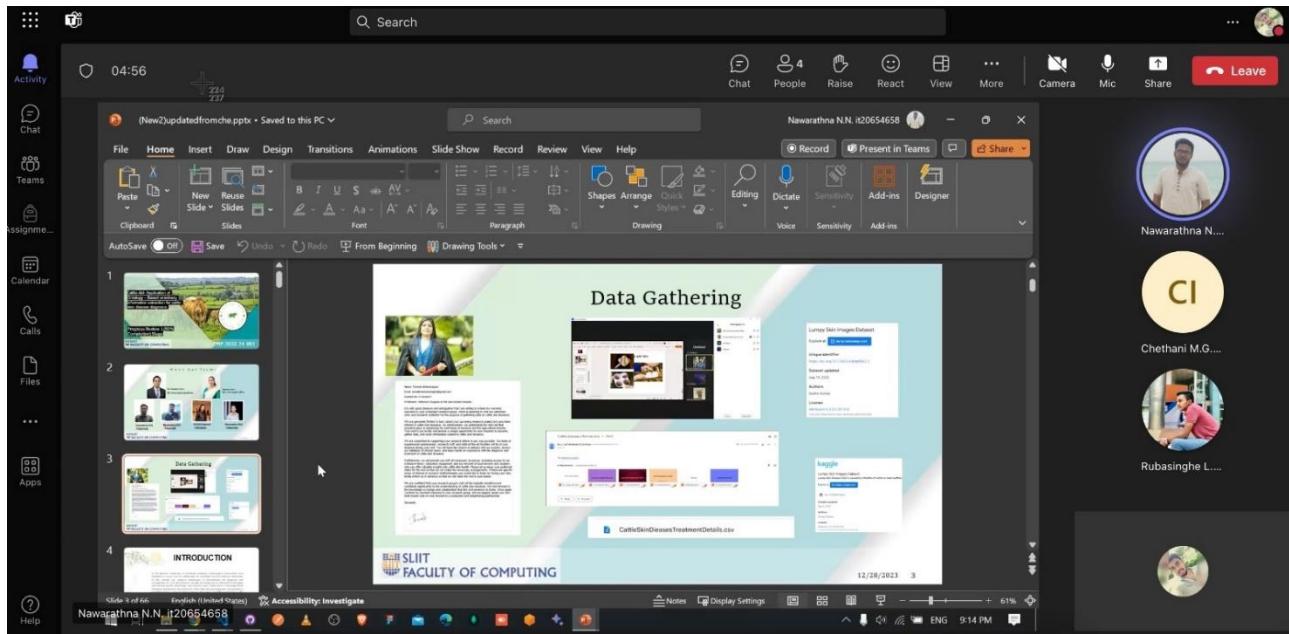
Completed Filter List Board Charts Schedule

Task title	Completed by	Priority	Completed ↑	Bucket
+ Add a task				
● Create cattle ontology	Nawarathna N.N. it2...	!	4/30	Jayawardhana K...
● Backend development	Chethani M.G.K. it20...	4/30	M.G.K.Chethani IT...	
● User Testing	Chethani M.G.K. it20...	4/30	M.G.K.Chethani IT...	
● System Integration	Chethani M.G.K. it20...	4/30	M.G.K.Chethani IT...	
● Frontend development	Chethani M.G.K. it20...	4/30	M.G.K.Chethani IT...	
● Research Paper	Chethani M.G.K. it20...	4/30	M.G.K.Chethani IT...	
● Integration Testing	Chethani M.G.K. it20...	4/30	M.G.K.Chethani IT...	
● Collect pp2 PowerPoint presentation slides.	Chethani M.G.K. it20...	4/30	M.G.K.Chethani IT...	
● Status document 02	Chethani M.G.K. it20...	4/30	M.G.K.Chethani IT...	
● System Integration	Rubasinghe LM it20...	4/27	Rubasinghe LM I...	
● Progress Presentation-2	Rubasinghe LM it20...	4/27	Rubasinghe LM I...	
● Backend development	Rubasinghe LM it20...	4/27	Rubasinghe LM I...	
● Frontend development	Rubasinghe LM it20...	4/27	Rubasinghe LM I...	
● Status document 02	Rubasinghe LM it20...	4/27	Rubasinghe LM I...	
● Thesis Draft	Rubasinghe LM it20...	4/27	Rubasinghe LM I...	

### 3.3. Teams Planner Charts



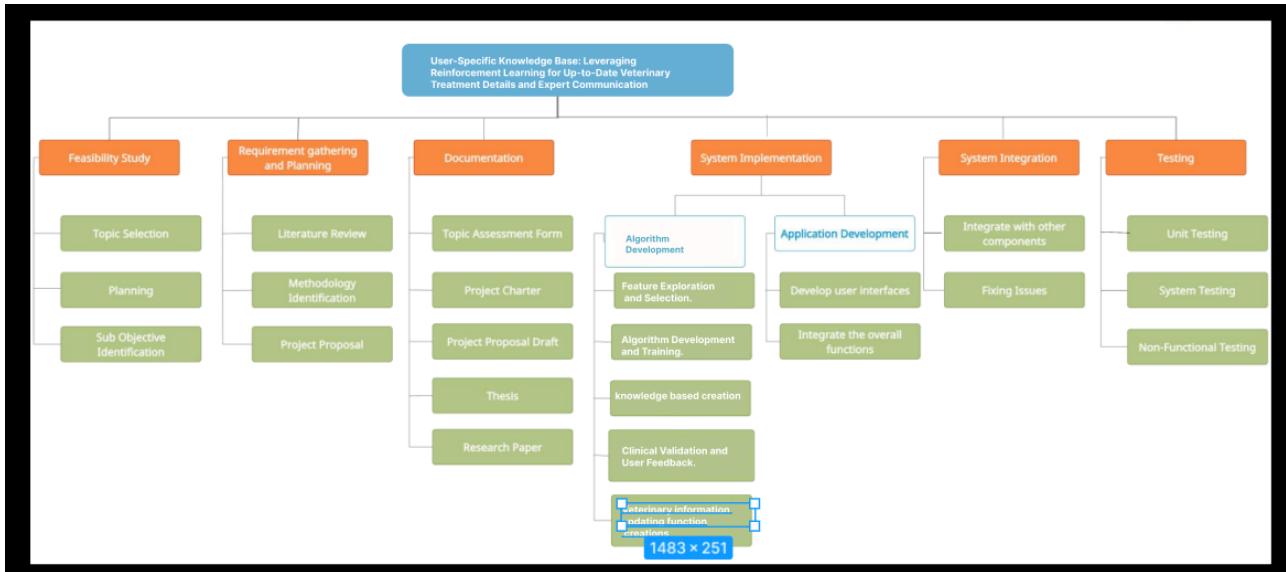
## 4. Google Meet Meetings



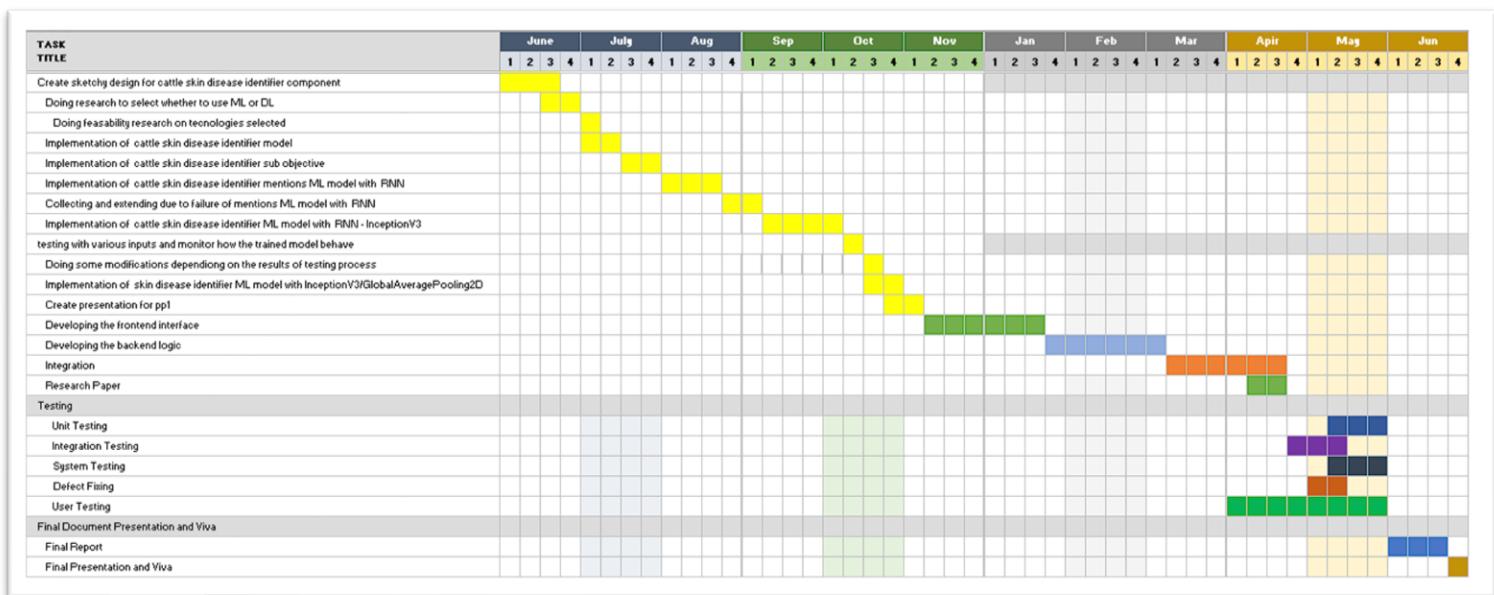
## 5. Emails

A screenshot of an email inbox. At the top, there's a header with the recipient's name, Chethani M.G.K. it20659226, and the date, Sun 28/04/2024 12:55. The message body starts with "Hi Madam," followed by "Here is our research paper can you review it and give feedback to us?". Below that, there's a signature that says "thank you," and "Best regards". At the bottom of the message, there are "Reply" and "Forward" buttons. The message also includes a file attachment named "Ontology based information ... 527 KB".

## 6. Gantt Chart



## 7. Work Breakdown Structure







# **Application of Ontology-Base Veterinary Information Extraction for Cattle Skin Disease Diagnosis**

2023-24-001

Status Document - 02

Rubasinghe L.M  
IT20299552

B.Sc. (Hons) Degree in Information Technology Specializing in Software Engineering

Department of Information Technology  
Sri Lanka Institute of Information Technology

Sri Lanka

March 2024

# **Application of Ontology-Base Veterinary Information Extraction for Cattle Skin Disease Diagnosis**

2023-24-001

Status Document - 02

Rubasinghe L.M

IT20299552

(Navarathna N.N, Jayawardhana K.A.D.D.S, M.G.K Chethani)

Mrs. Suranjini Silva  
Dr. Anuradha Jayakody

B.Sc. (Hons) Degree in Information Technology

Department of Information Technology  
Sri Lanka Institute of Information Technology  
Sri Lanka

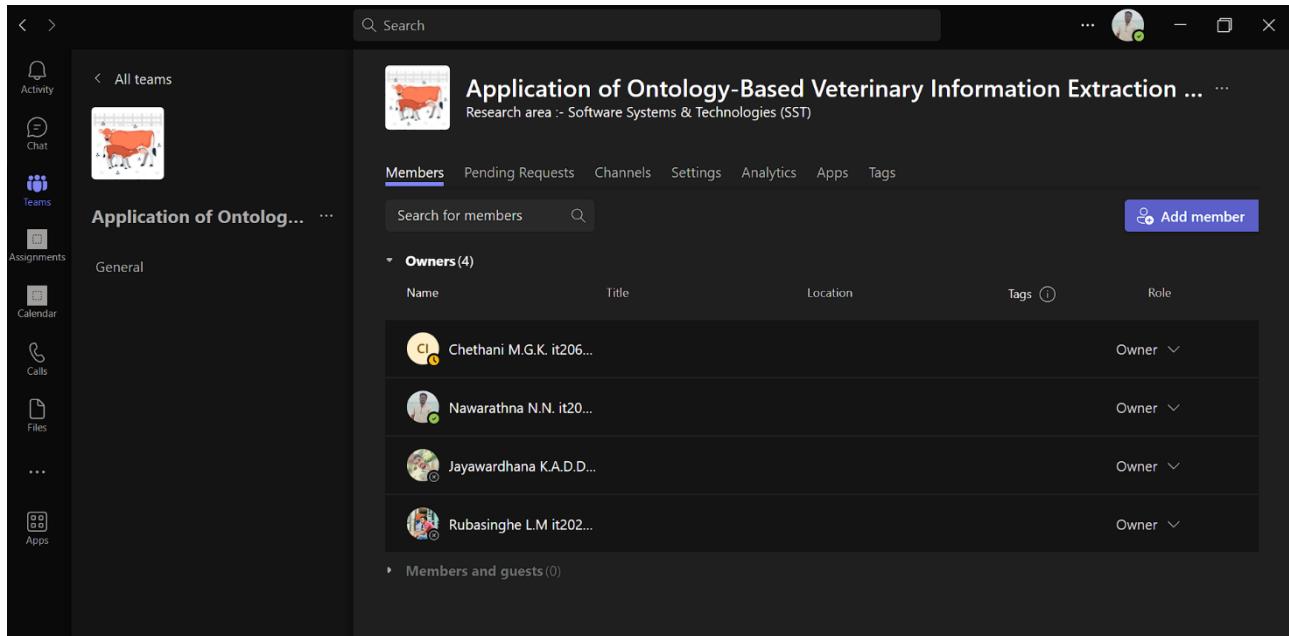
March 2024

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# 1. MS Teams Details

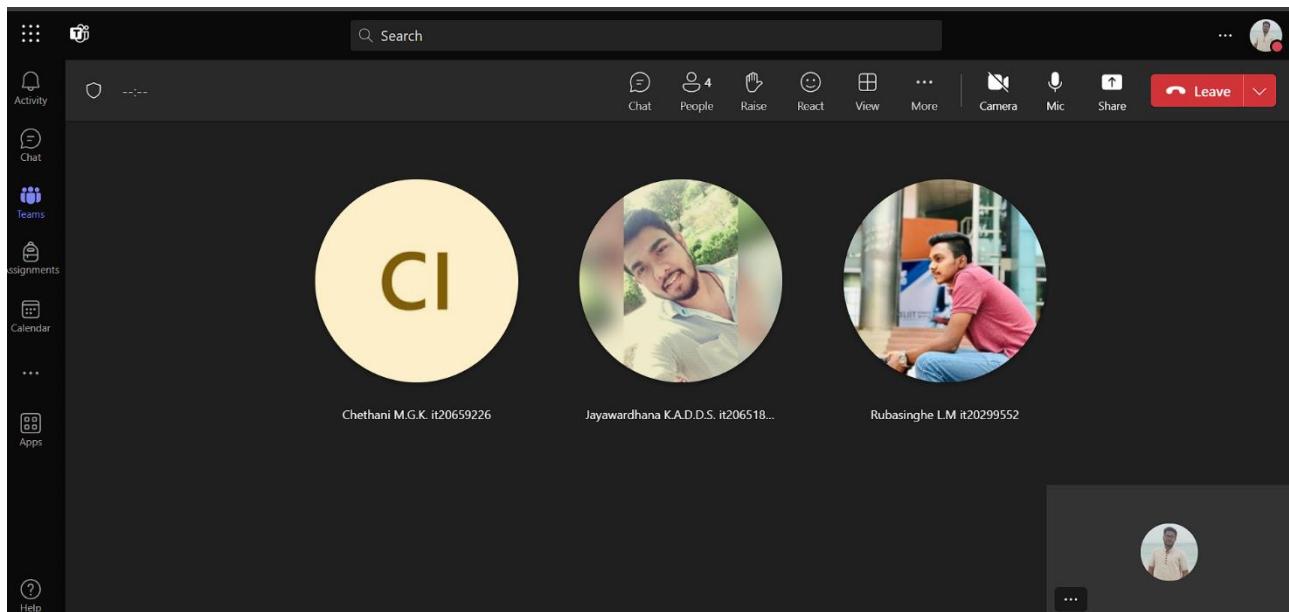
## 1.1. Teams and the Members



The screenshot shows the Microsoft Teams interface for a team named "Application of Ontology-Based Veterinary Information Extraction". The "Members" tab is selected. The team has four owners listed:

Name	Title	Location	Tags	Role
Chethani M.G.K. it206...				Owner
Nawarathna N.N. it20...				Owner
Jayawardhana K.A.D.D...				Owner
Rubasinghe L.M it202...				Owner

## 1.2. Teams calls with the Members



The screenshot shows a Microsoft Teams video call in progress. Three participants are visible in the main video grid:

- Chethani M.G.K. it20659226 (represented by a yellow circle with the letters "CI")
- Jayawardhana K.A.D.D.S. it206518... (represented by a circular photo)
- Rubasinghe L.M it20299552 (represented by a circular photo)

A fourth participant's video is shown in a smaller preview window in the bottom right corner.

This screenshot shows a Microsoft Teams channel interface. The left sidebar includes icons for Activity, Chat, Teams, Assignments, Calendar, Calls, ..., Apps, and Help. The main area displays a channel named "General" under the team "Application of Ontology-Ba...". The "Posts" tab is selected. A message from Nawarathna N.N. (it20654658) dated 24/09/2023 at 02:43 says: "Hey everyone, I recently updated our research project planning tool. Starting this week, we will be using this platform to update our working plan". Below it, a message from Chethani M.G.K. (it20659226), Jayawardhana K.A.D.D.S. (it20651824), and Rubasinghe LM (it20299552) dated 24 September 2023 says: "Hey everyone, I recently updated our research project planning tool. Starting this week, we will be using this platform to update our working plan". A message from "Meeting in 'General' ended: 20m 8s" dated Monday October 16 2023 is shown. Another message from "New channel meeting ended: 24m 53s" dated Monday October 30 2023 is shown. A message from "Meeting ended: 23m 3s" dated Monday October 30 2023 is shown. A "New conversation" button is visible at the bottom.

This screenshot shows a Microsoft Teams channel interface. The left sidebar includes icons for Activity, Chat, Teams, Assignments, Calendar, Calls, Files, ..., Apps, and Help. The main area displays a channel named "General" under the team "Application of Ontology-Ba...". The "Posts" tab is selected. A file named "FINALONE.pptx" is shared by Nawarathna N.N. (it20654658) on Saturday, December 30, 2023, at 12:58 AM. The message says: "I added a tab at the top of this channel. Check it out!". A message from "Cattle AID" dated Friday, January 19, 2024, at 1/19 4:10 PM says: "General". A message from Nawarathna N.N. (it20654658) dated 1/19 4:10 PM says: "file path". A "New conversation" button is visible at the bottom.

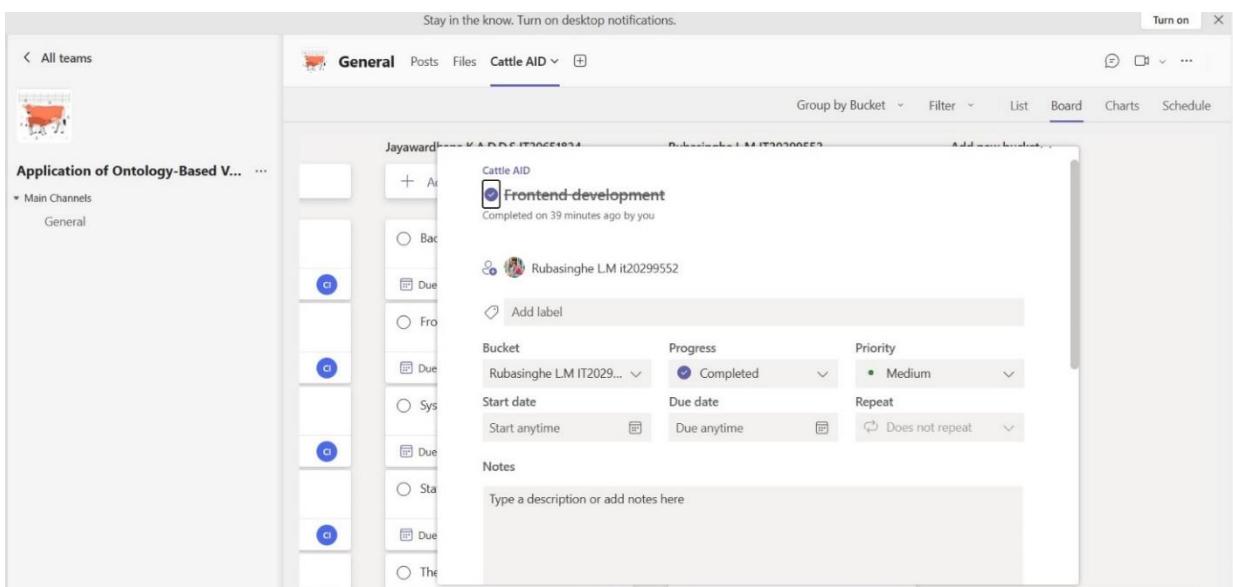
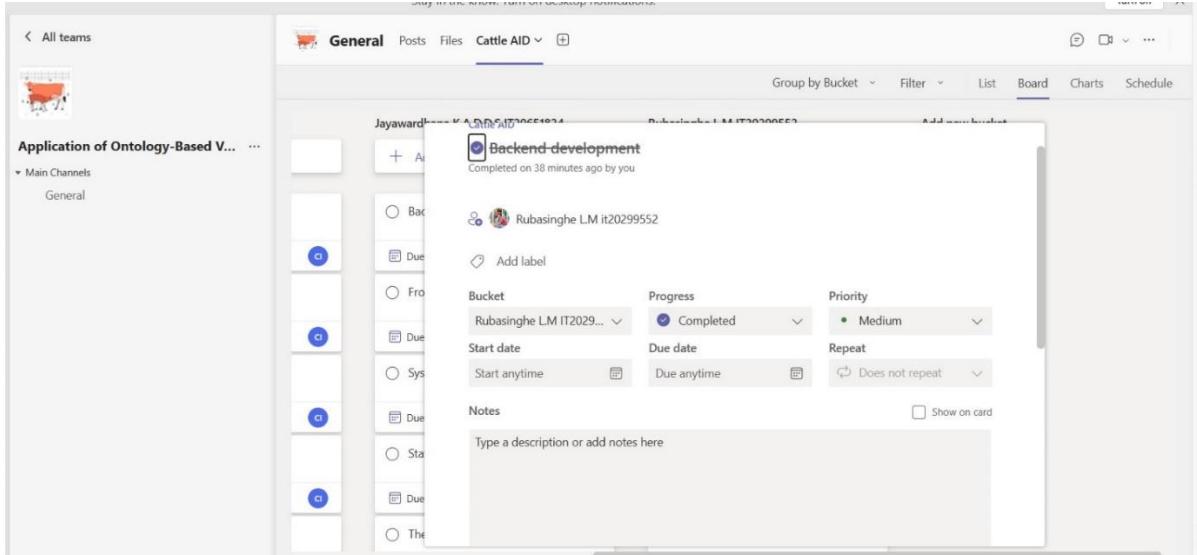
## 2. Teams Document Sharing

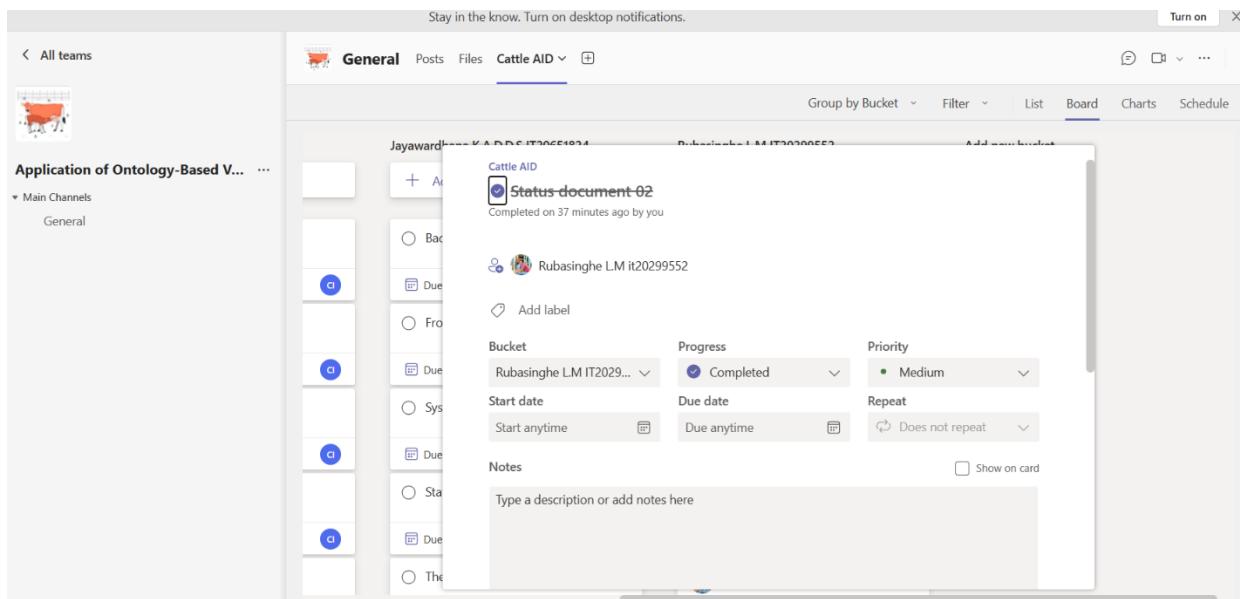
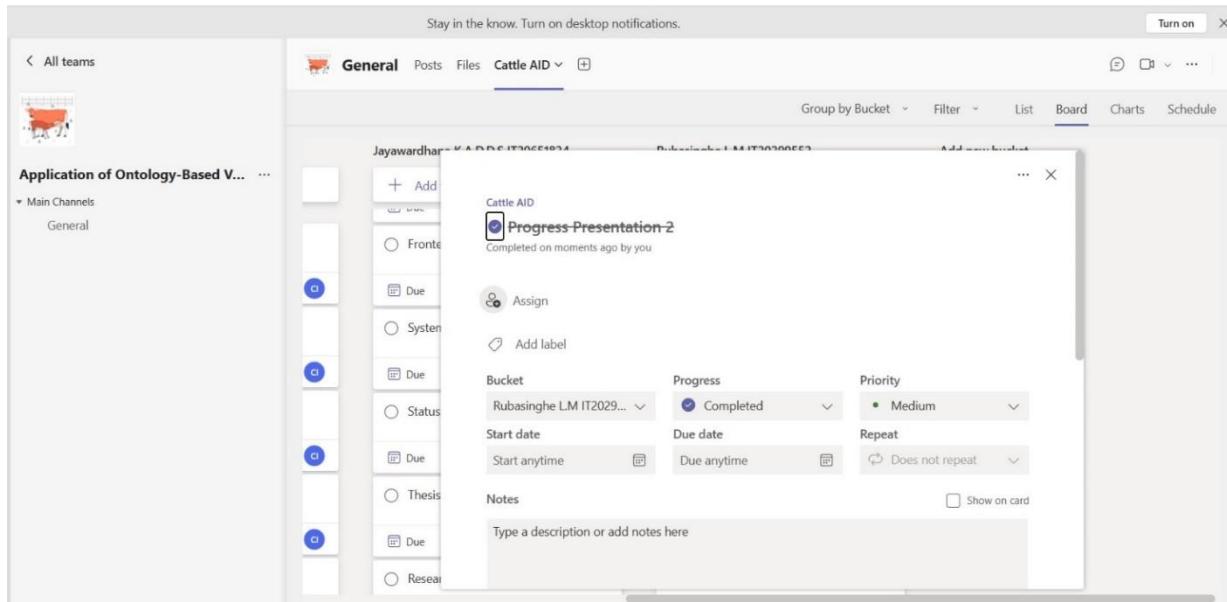
The screenshot shows the Microsoft Teams interface with the 'Files' tab selected in a channel named 'General'. The left sidebar includes links for Activity, Chat, Teams, Assignments, Calendar, Calls, Files, and Apps. The main area displays a list of documents under 'General', including 'Dataset', 'Logbook', 'Other Documents', 'Project Proposal DOCS', 'Recordings', 'Status 1', 'Status 2', and 'FINALONE.pptx', each with its modified date and by whom.

## 3. Teams Planner

### 3.1. Planner Board

The screenshot shows the Microsoft Teams Planner interface in 'Board' view. The left sidebar is identical to the previous screenshot. The main area displays a board with tasks assigned to 'M.G.K.Chethani IT20659226' and 'Rubasinghe LM IT20299552'. The tasks include 'Thesis Draft', 'UAT', 'Due', 'Thesis', 'Due', 'User Testing', and 'Due'. The bottom of the screen shows completed task counts of 10 and 18 respectively.





## 3.2. Completed Tasks

The screenshot shows a task management interface with the following details:

Header: Stay in the know. Turn on desktop notifications. Turn on X

Left sidebar: All teams, Application of Ontology-Based V... (partially visible), Main Channels, General.

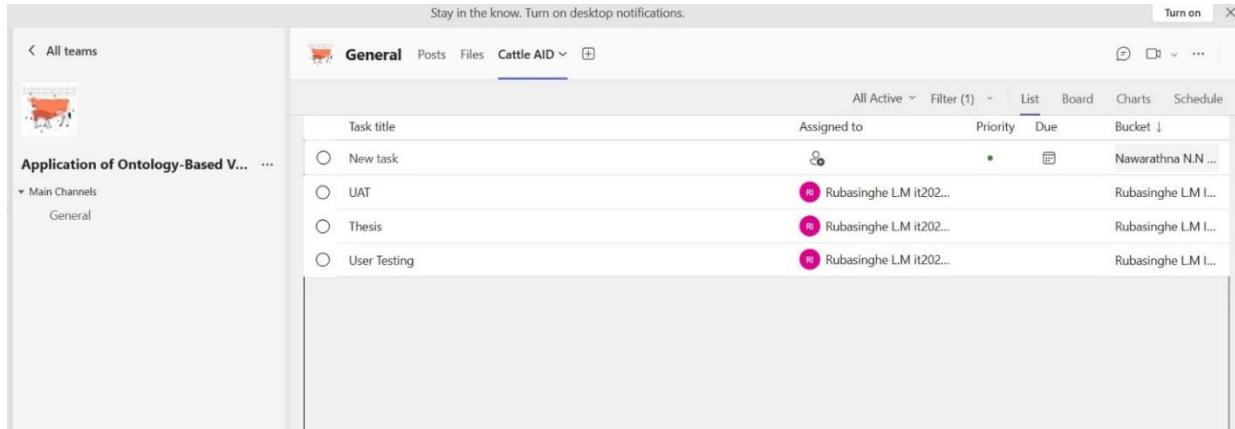
Top navigation: General, Posts, Files, Cattle AID, +

Table headers: Task title, Completed by, Filter, List, Board, Charts, Schedule

Table rows (Completed tasks):

Task title	Completed by	Priority	Completed ↑	Bucket
System-Integration	Rubasinghe LM i...	27/04		Rubasinghe LM i...
Progress-Presentation-2	Rubasinghe LM i...	27/04		Rubasinghe LM i...
Backend-development	Rubasinghe LM i...	27/04		Rubasinghe LM i...
Frontend-development	Rubasinghe LM i...	27/04		Rubasinghe LM i...
Status-document-02	Rubasinghe LM i...	27/04		Rubasinghe LM i...
Thesis-Draft	Rubasinghe LM i...	27/04		Rubasinghe LM i...
Research-Paper	Rubasinghe LM i...	27/04		Rubasinghe LM i...
Integration-Testing	Rubasinghe LM i...	27/04		Rubasinghe LM i...

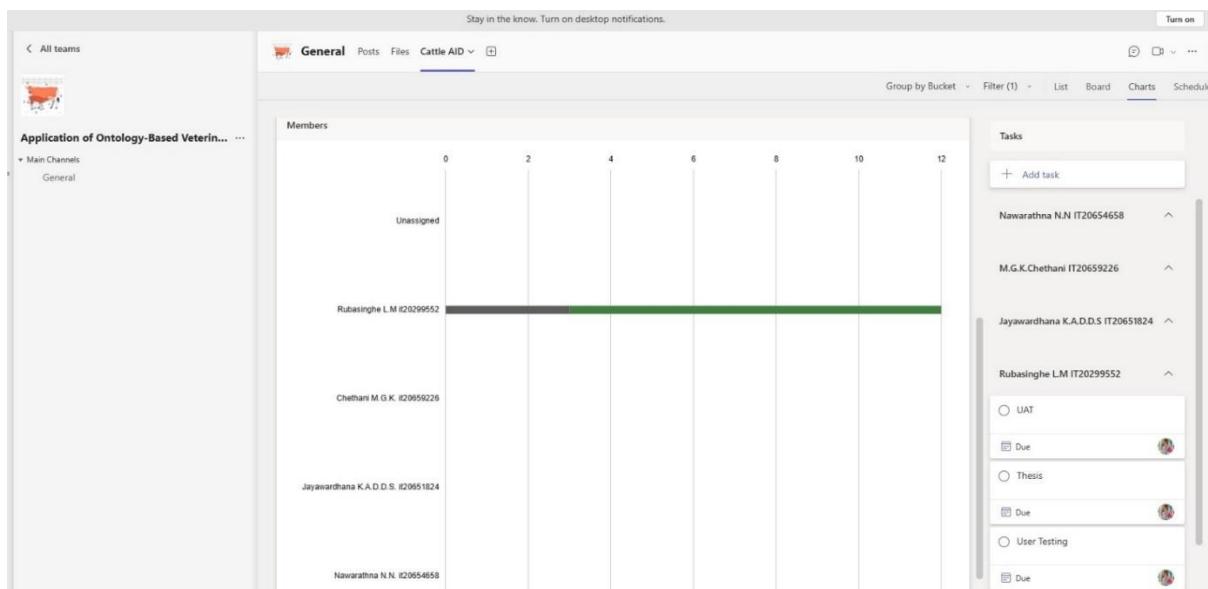
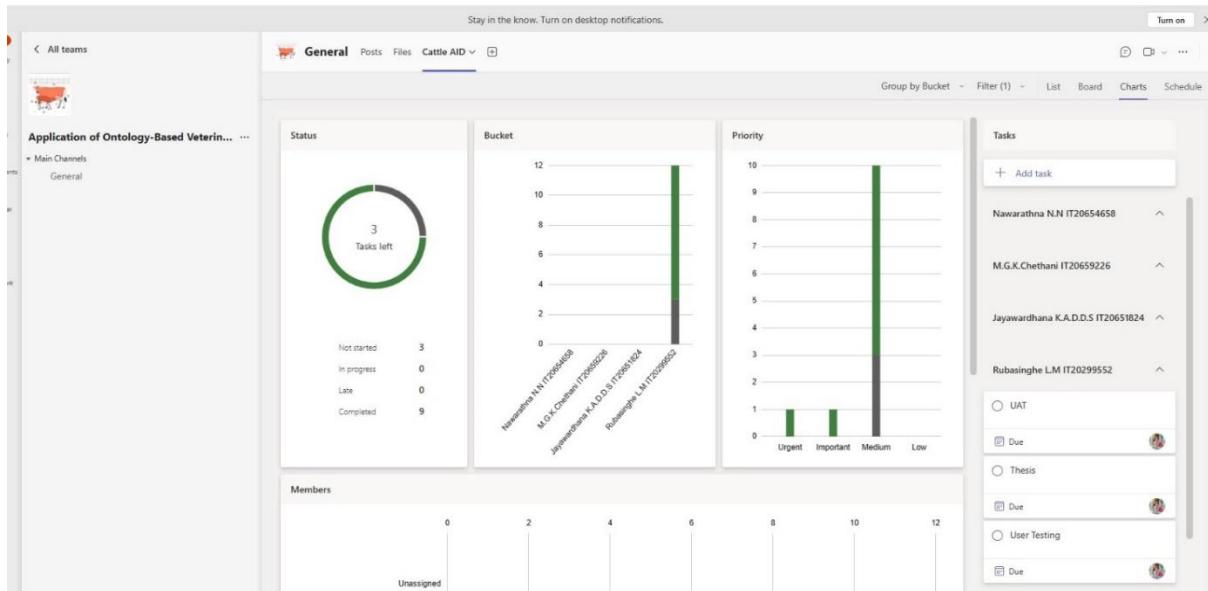
### 3.3. In Progress Tasks in Planner



The screenshot shows the Microsoft Planner interface for the 'General' team. The left sidebar lists 'All teams' and 'Application of Ontology-Based V...'. The main area displays a table of tasks:

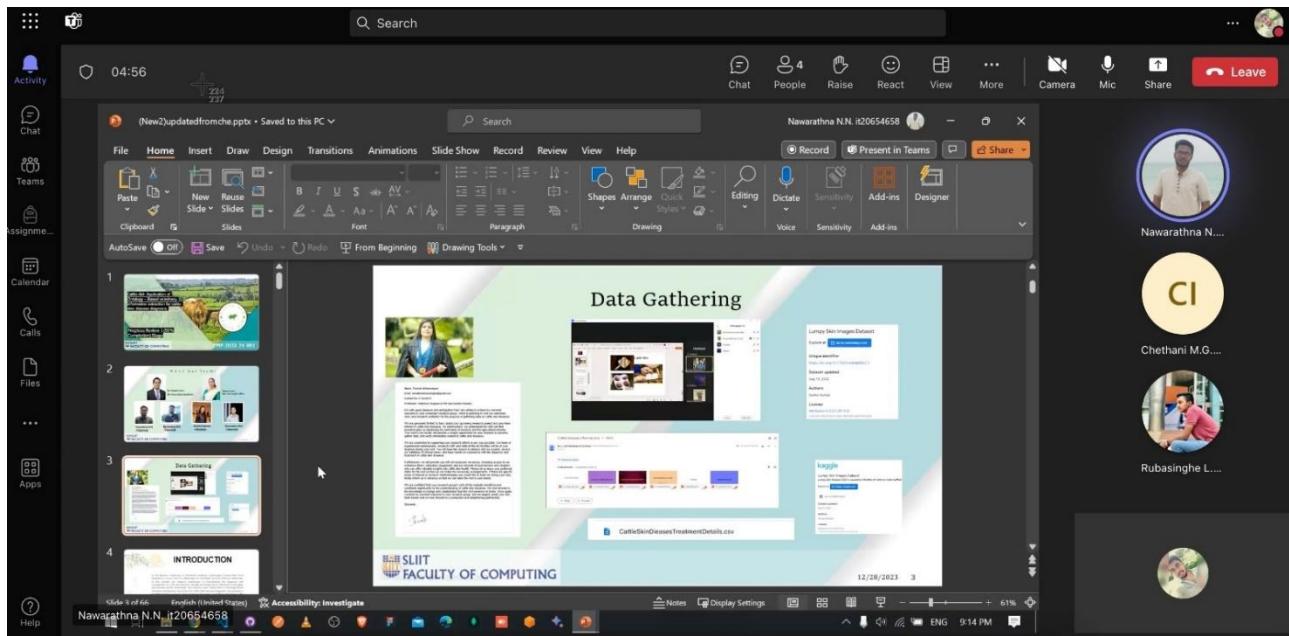
Task title	Assigned to	Priority	Due	Bucket
New task	Nawarathna N.N.	*	Today	Nawarathna N.N...
UAT	Rubasinghe LM	Medium	2023-09-15	Rubasinghe LM I...
Thesis	Rubasinghe LM	Medium	2023-09-15	Rubasinghe LM I...
User Testing	Rubasinghe LM	Medium	2023-09-15	Rubasinghe LM I...

### 3.4. Teams Planner Charts





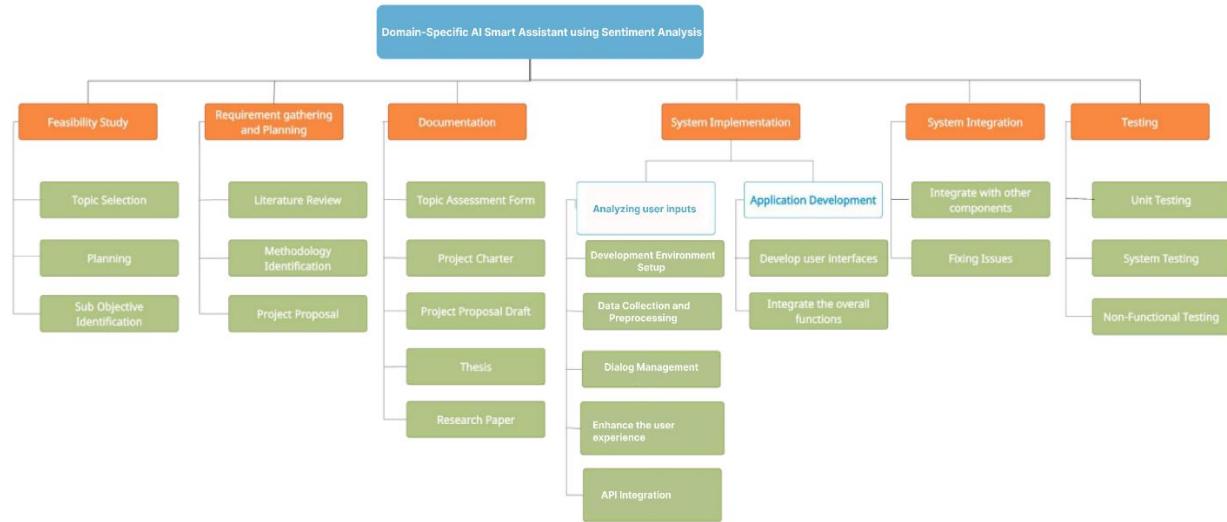
## 4. Google Meet Meetings



## 5. Emails

A screenshot of an email inbox. The message is from Chethani M.G.K. it20659226, dated Sun 28/04/2024 12:55. The subject is "Ontology based information ...". The message body starts with "Hi Madam," followed by "Here is our research paper can you review it and give feedback to us?". Below that, there's a signature that says "thank you," and "Best regards". At the bottom of the message, there are two buttons: "Reply" and "Forward".

## 6. Work Breakdown Chart



## 7. Gannt Chart

