

SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY



STATUS DOCUMENT 2

BLOOMQUEST: PERSONALIZED LEARNING SYSTEM BASED ON THE
BLOOM'S TAXONOMY AND KNOWLEDGE BASED CONCEPTS.

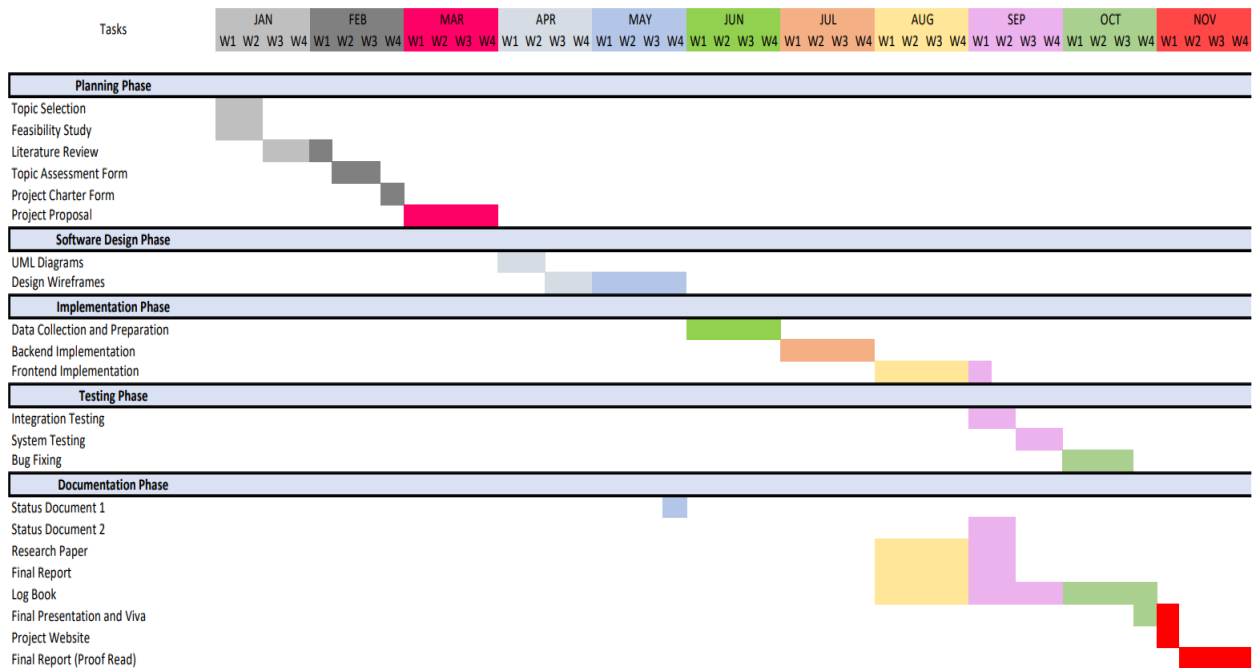
2023-035

IT20133504 and Weerasekara N.N.

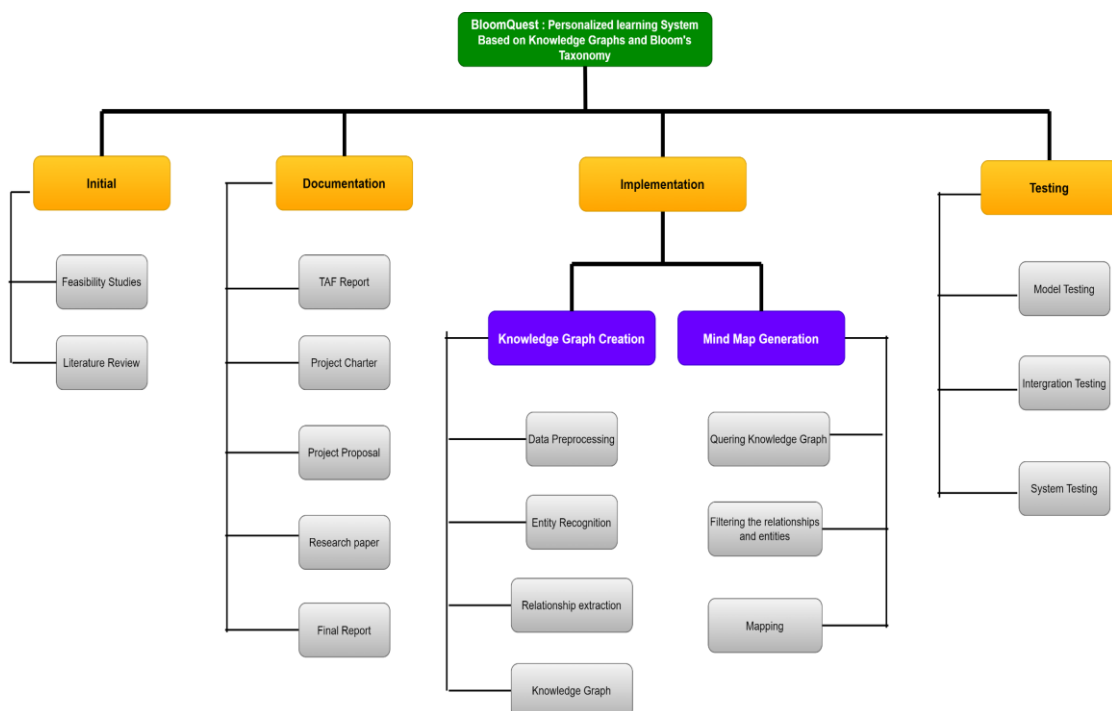
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1. Gantt Chart



2. Work Breakdown Structure



3. Screenshots of meetings and emails with the Supervisor and the Group.

From: [Wijayasena W.D.N.D.T. it20133368](#)

Sent: Wednesday, June 21, 2023 8:43 PM

To: [Prasanna Sumathipala](#); [Senaweera T.I.S. it20123468](#); [Weerasekara N.N it20133504](#); [Colambage K.G. it20126438](#)

Subject: RE: Final Proj

Sure Sir, We can have the meeting at 2pm.

Sent from [Mail](#) for Windows

From: [Prasanna Sumathipala](#)

Sent: Wednesday, June 21, 2023 7:26 PM

To: [Wijayasena W.D.N.D.T. it20133368](#); [Senaweera T.I.S. it20123468](#); [Weerasekara N.N it20133504](#); [Colambage K.G. it20126438](#)

Subject: Re: Final Proj

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

Can we meet Friday, 4-5 pm or 2-3 pm.

I have a meeting with another project group from 3-4 pm.

From: Wijayasena W.D.N.D.T. it20133368 <it20133368@my.sliit.lk>

Sent: Tuesday, June 20, 2023 9:54 PM

To: Prasanna Sumathipala <prasanna.s@sliit.lk>; Senaweera T.I.S. it20123468 <it20123468@my.sliit.lk>; Weerasekara N.N it20133504 <it20133504@my.sliit.lk>; Colambage K.G. it20126438 <it20126438@my.sliit.lk>

Subject: Re: Final Proj

Dear Sir,

Sorry for the delay in updating you regarding the project.

We were actually planning to email you. Can you tell us a free time slot to have a meeting?

Best Regards,

Dineth Wijayasena.

Knowledge Graph - Research Project



Wijayasena W.D.N.D.T. it20133368 <it20133368@my.sliit.lk>

6/27/2023 10:15 PM

To: Prasanna Sumathipala; Weerasekara N.N it20133504; Senaweera T.I.S. it20123468; Colambage K.G. it20126438

When Friday, July 7, 2023 2:00 PM - 3:00 PM [View calendar](#)

Where Microsoft Teams Meeting



You set this up, so it's already on your calendar.

Research Project

Recording has started
Let everyone know they're being recorded.
[Privacy policy](#)

Senaweera T.I.S. it20123468

Colambage K.G. it20126438

Prasanna Sumathipala

Weerasekara N.N. it20133504

WI

Type here to search

9:04 PM
7/22/2023

Draft Research Papers



Wijayasena W.D.N.D.T. it20133368 <it20133368@my.sliit.lk>

8/10/2023 10:02 PM



To: Prasanna Sumathipala Cc: Senaweera T.I.S. it20123468; Weerasekara N.N it20133504; Colambage K.G. it20126438

Hi Sir,

We will upload our draft research papers to the SharePoint link that is given by CDAP. Can you please go through it and comment on the things that need to be modified. I attached the link for that folder here.

<https://mysliit.sharepoint.com/sites/CDAPSubmissionCloud/2023RegCloud/Forms/AllItems.aspx?id=%2Fsites%2FCDAPSubmissionCloud%2F2023RegCloud%2F23%2D035%2DStudents%2F4%2E%20Research%20Paper%2FResearch%20Papers%20%28Drafts%29&viewid=c7aa1bbe%2Dee33%2D4483%2Dba4d%2D4498d8e42d08>

Thank You,
Dineth Wijayasena

Re: Draft Research Papers



Prasanna Sumathipala <prasanna.s@sliit.lk>

8/10/2023 10:17 PM



To: Wijayasena W.D.N.D.T. it20133368 Cc: Senaweera T.I.S. it20123468; Weerasekara N.N it20133504; Colambage K.G. it20126438

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

Send me files.

Research Proj meeting

01:07:16

Take control Pop out Chat People Raise React View Rooms Apps More Camera Mic Share Leave

Home | Calend | Mail - P | GraphC | Researc | Thesis | Structu | Create | Scopu | Confer | +

https://cmt3.research.microsoft.com/SCSE2023/Review/View/201

Paper Title Classification Model to identify airline No-Show rate based on passengers in Sri Lankan context
Track Name Smart Computing

REVIEW QUESTIONS

1. Paper is related to the scope of the conference. (Yes/No)
Yes
2. Comments on relevance of the paper to the scope of the conference.
Authors have developed a ML based applications to predict No-Show passengers.
3. Title of the paper is appropriate. (Yes/No)
No
4. Comments on title of the paper.
What do you mean by "No-Show rate" in the title? Why do you want to include other airline details if this is about Sri Lankan air line?
5. Objectives are clear. (Yes/No)
Yes
7. Originality of the content and scientific merit is satisfactory. (Yes/No)
Yes
9. Research design, methods, analysis of data, interpretation of results and conclusion are satisfactory. (Yes/No)
No
10. Comments on research design, methods, analysis of data, interpretation of results and conclusion.
I have couple of questions about the method followed:
- To predict No-Show passengers use of data collected through a questionnaire is questionable. This prediction hard to do based on opinions others.
- There are no enough details about the dataset.
- It is unclear how the features used for prediction were selected. Without proper evidence or explanation, it becomes difficult to understand the rationale behind choosing these particular features and their relevance to the prediction task.
11. Language and grammar of the paper are satisfactory. (Yes/No)
Yes
12. Comments on language and grammar of the paper.

Prasanna Sumathipala

Type here to search

10:07 PM 8/25/2023

WI Weerasekar...
SI Senaweera T.I.S...
Prasanna Suma...
CI Colabage...
WI

AutoSave Off Research Paper-Ishma (1).docx Saved

File Home Insert Draw Design Layout References Mailings Review View Help RCM Grammarly

Clipboard Font Paragraph Styles Editing Dictate Voice Sensitivity Editor Reuse Files Open Grammarly Reuse Files Grammarly

Forecasting Student Outcomes: Leveraging a Performance Index Derived From Bloom's Taxonomy to Anticipate Final Exam Results.

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Prasanna Sumathipala
Title should less than 1
Reply

Page 4 of 4 2496 words English (United Kingdom) Text Predictions: On

Type here to search

9:05 PM 8/25/2023

CI Colabage K.G. it20...
WI Wijayasena W.D.N.D...
SI Senaweera T.I.S. it20...
WI Weerasekara N.N it2...
Prasanna Sumathipala

What do you think?

Paragraph

- Data mining techniques are used to extract valuable information and insights from large datasets. These techniques can include machine learning algorithms, statistical analysis, clustering, association rule mining, and more. Some common techniques include association rule mining, which discovers relationships between variables, and clustering, which groups similar data points. Other techniques include classification, regression, decision trees, neural networks, text mining, time series analysis, anomaly detection, and ensemble methods. These techniques are applied in various fields such as finance, healthcare, marketing, and many more to gain insights and make data-driven decisions. By analyzing large datasets, data mining techniques can reveal patterns and trends that may be difficult to discern through manual analysis, leading to more efficient and effective decision making

Mind Map



Weerasekara N.N. it2013...



Prasanna Sumathipala



Wijayasena W.D.N.D.T. i...




Senaweera T.I.S. it2013...

4. Screenshots of meetings and chats with the Group.

The screenshot shows a Microsoft Word document titled "2023-035_Senaweera T.I.S." with the following content:

SRI LANKA INSTITUTE OF INFORMATION
TECHNOLOGY

I



The document is displayed in a meeting window titled "Meeting in 'General'". The sidebar on the right shows participants: Weerasekara N.N. (id20133504) and Senaweera T.I.S. (id20123468).

The screenshot shows a Microsoft Word document titled "IEEE Research Paper Template-A4" with the following content:

Abstract—Creating high-quality and balanced exams for undergraduates that appeal to varied cognitive capabilities is an essential task. Bloom's taxonomy is a framework used by many university lecturers to accomplish this task and assess student performance. However, the majority of students are unaware of Bloom's Taxonomy and how it influences their learning experience. This lack of knowledge makes students struggle to understand the depth and complexity of a subject they are studying. As many university papers are created based on this framework, it is essential that a student should possess at least a basic knowledge about each level in Bloom's Taxonomy. Therefore, this presents a research problem as it raises questions about how undergraduate students can identify and understand their cognitive level as classified by Bloom's Taxonomy, and how they can develop the skills they need to advance to higher levels. To address this issue, a personalized self-study system can be implemented that guides students through the process of applying Bloom's Taxonomy to their learning. By incorporating Bloom's Taxonomy, students can identify areas where they may need to focus their efforts to achieve their learning goals.

Keywords—component, formatting, style, styling, insert (key words)

I. INTRODUCTION

University students face enormous pressure and stress when it comes to their academics today. Many students find themselves struggling to keep up with a wide range of subjects to cover and a huge number of assignments and exams. Some students do not have enough time to refer to all lectures, some students may not know how to study efficiently in order to achieve good grades. Many students try to do self-study to stay on the correct track. But unfortunately, students don't have a good idea about how to study effectively on their own and how they want to focus on each and every section to obtain higher results. This can lead to poor performance and even more stress. So, students need to be able to develop good self-study habits, but that can be tough to do without help.

II. EASE OF USE

A. Selecting a Template (Heading 2)

First, confirm that you have the correct template for your paper size. This template has been tailored for output on the A4 paper size. If you are using US letter-sized paper, please close this file and download the Microsoft Word, Letter file.

B. Maintaining the Integrity of the Specifications

The template is used to format your paper and style the text. All margins, column widths, line spaces, and text fonts are prescribed; please do not alter them. You may note peculiarities. For example, the head margin in this template measures proportionately more than is customary. This

The document is displayed in a meeting window titled "Meeting in 'General'". The sidebar on the right shows participants: Wijayasena W.D.N.D.T. (id20133368), Weerasekara N... (id20133504), Colambage K.G... (id20133504), and Senaweera T.I.S. (id20123468).

Meeting in "General"

05:38

Take control Pop out Chat People Raise React View Rooms More Camera Mic Share Leave

AutoSave On IEEE Research Paper Template-a4.docx Saved Search Ishma Senaweera

File Home Insert Draw Design Layout References Mailings Review View Help Grammarly QuillBot Easy Syntax Highlighter Editing

Clipboard Font Paragraph Styles

Times New Roma 10 A A Aa

B U X₂ X²

Table Caption Emphasis Heading 2 Heading 3

Find Replace Select Dictate Voice Sensitivity Editor Open Grammarly

SI Senaweera T.I.S. it20123468

CI Colabage K.G. it20126438

WI

TABLE 1. TABLE TYPE STYLES

Table Head	Table Column Head	Subhead	Subhead
copy	More table copy		

Fig. 1. Example of a figure caption. (figure caption)

Figure Labels: Use 8 point Times New Roman for Figure labels. Use words rather than symbols or abbreviations when writing Figure axis labels to avoid confusing the reader. As an example, write the quantity "Magnetization," or "Magnetization, M," not just "M." If including units in the label, present them within parentheses. Do not label axes only with units. In the example, write "Magnetization (A/m)" or "Magnetization (A/m(1))" not just "A/m." Do not label axes

figures and tables after they are cited in the text. Use the abbreviation "Fig. 1", even at the beginning of a sentence.

IV. RESULTS AND DISCUSSION

The preferred spelling of the word "acknowledgment" in America is without an "e" after the "g". Avoid the stilted expression "one of us (R. B. G.) thanks ...". Instead, try "R. B. G. thanks...". Put sponsor acknowledgments in the unnumbered footnote on the first page.

V. CONCLUSION

The preferred spelling of the word "acknowledgment" in America is without an "e" after the "g". Avoid the stilted expression "one of us (R. B. G.) thanks ...". Instead, try "R. B. G. thanks...". Put sponsor acknowledgments in the unnumbered footnote on the first page.

REFERENCES

[1] G. Eason, B. Noble, and I. N. Sneddon, "On certain integrals of Lipschitz-Hankel type involving products of Bessel functions," Phil. Trans. Roy. Soc. London, vol. A247, pp. 529-551, April 1955. (references)

[2] J. Clerk Maxwell, A Treatise on Electricity and Magnetism, 3rd ed., vol. 2. Oxford: Clarendon, 1892, pp.68-73.

Mendeley Cite

References Citation Settings

Research Paper Intro

Search for references to add...

Self-learning system for personalized e-learning

Vishal Pant, ShivanshBhasin, Subhi Jain

International Conference on Emerging Trends in Computing and Communication Technology...

✓ Cited

Impact of Training of Teachers in Bloom's Taxonomy on Question-Paper Setting

Vadhara R

International Journal of Science and Research

✓ Cited

Page 3 of 3 2240 words Text Predictions: On Accessibility: Investigate Error loading add-ins Focus 9:06 PM 2023-06-26 110%

Senaweera T.I.S. it20123468 search

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9:08 PM 6/26/2023

Meeting in "General"

07:57

Take control Pop out Chat People Raise React View Rooms More Camera Mic Share Leave

Prototype 1 - Figma Course: Machine Learning - IT40 x +

figma.com/file/XFTfhHtE7CcurpC2KIsx8l/Prototype-1?type=design&node-id=334-471&mode=design&t=nlNkpiB9LL68TJZ-0

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Team project / Prototype 1 Free

Search Nimesha Logout

Q & A Home Home Home Help Desk

Questions & answers Based on Bloom's Taxonomy Levels

Fundamentals of Data mining

Quiz 1 Quiz 2

Internet of things

Quiz 1 Quiz 2

User Experience

Quiz 1 Quiz 2

Design Prototype

Page

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Local variables

Local styles

Export

Senaweera T.I.S. it20123468

Colabage K.G. it20126438

8:26 PM 2023-06-28

8:26 PM 6/28/2023



Meeting in "General"

01:20:41

Take control Pop out Chat People Raise React View Rooms More Camera Mic Share Leave

File Edit Selection View Go Run 2023-035

EXPLORER

- 2023-035
 - BloomQuest
 - backend
 - Server
 - config
 - models
 - routes
 - main.py**
 - venv
 - .env
 - .gitignore
 - README.md
 - requirements.txt
 - frontend
 - IT20123468
 - IT20133368
 - README.md

main.py

```

1 from flask import Flask, jsonify
2 from flask_pymongo import PyMongo
3 from pymongo.errors import PyMongoError
4 import os
5 from dotenv import load_dotenv
6
7 app = Flask(__name__)
8
9 # Load environment variables from .env file
10 load_dotenv()
11
12 # MongoDB connection string
13 MONGO_URI = os.getenv("MONGO_URI")
14
15 # Check if the connection string was loaded
16 if not MONGO_URI:
17     raise ValueError("Missing MongoDB URI")
18
19 # Setup Flask-PyMongo with the connection string
20 app.config["MONGO_URI"] = MONGO_URI
21
22 # Initialize PyMongo
23 mongo = PyMongo(app)

```

PROBLEMS OUTPUT TERMINAL GITLENS AZURE DEBUG CONSOLE

bash

DELL@DESKTOP-75907JM MINGW64 /F/LECTURES/Year 4/Y4S1/Research - Year 4/2023-035 (IT20123468_Senaweera.T.I.S.)

\$

IT20123468_Senaweera.T.I.S. 8/15 10:14 PM

Senaweera T.I.S. it20123468

Senaweera T.I.S. it20123468

WI

Weerasekara N.N it2013...

CI

Colambage K.G. it20126...

WI



Wijayasena W.D.N.D.T. it20133368 8/15 10:14 PM
https://scholar.google.com/citations?view_op=top_venues

<https://www.scimagojr.com/>

https://www.hugedomains.com/domain_profile.cfm?d=reserach.com



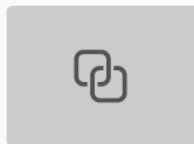
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<https://www.connectedpapers.com/>



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Senaweera T.I.S. it20123468 8/15 10:44 PM
<https://beallslist.net/>



Recording has started



Wijayasena W.D.N.D.T. it20133368 8/21 8:43 PM
user - IT____
PWD - admin



Senaweera T.I.S. it20123468 8/21 8:43 PM
node - v16.14.2
Python 3.11.4



Wijayasena W.D.N.D.T. it20133368 8/21 9:10 PM
ERROR in ./src/pages/Subjects/Subjects.jsx 6:0-82 c
Module not found: Error: Cannot find file: 'SubjectContainer.jsx' does not match
match the corresponding name on disk: '.\src\components\SubjectContainer\suctCbjectContainer.jsx'.

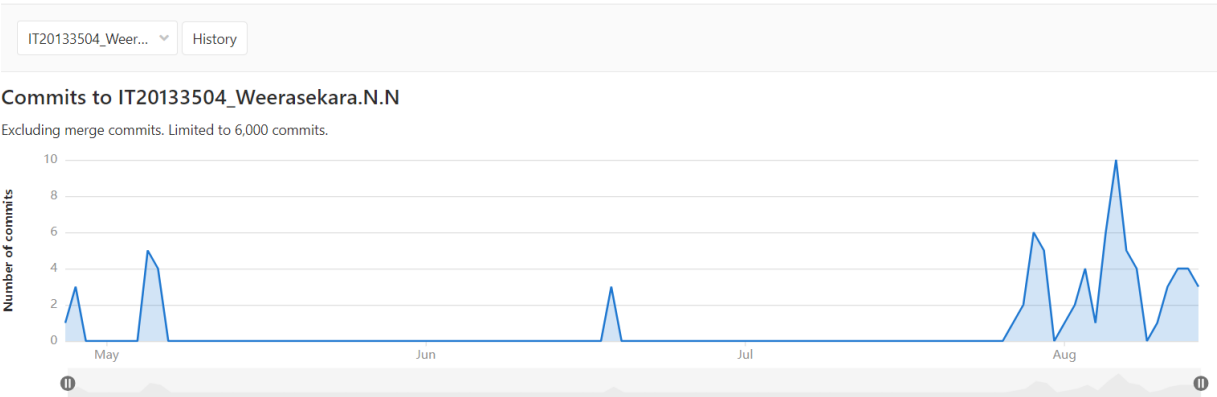
[See more](#)



Senaweera T.I.S. it20123468 8/21 9:36 PM
git stash
git stash apply

5. GitLab Commits

2023-035 > 2023-035 > Contributors



2023-035 > 2023-035 > Repository > Branches

OverviewActiveStaleAll

Filter by branch nameDelete merged branchesNew branch

Active branches				
master	defaultprotected			
6a690cfd · Merge branch 'IT20133504_Weerasekara.N.N' into 'master' · 3 days ago				
IT20123468_Senaweera.T.I.S		00	Merge requestCompare	
6a690cfd · Merge branch 'IT20133504_Weerasekara.N.N' into 'master' · 3 days ago				
IT20133504_Weerasekara.N.N	merged	10	Merge requestCompare	
69c56d41 · Mind-map download feature added · 3 days ago				
IT20126438_Colabage.K.G.backup	merged	50	Merge requestCompare	
0a7670a7 · Merge branch 'IT20133368_Wijayasena.W.D.N.D.T' into 'master' · 4 days ago				
IT20133368_Wijayasena.W.D.N.D.T	merged	60	Merge requestCompare	
f90f9f17 · Refactor code · 4 days ago				
Show more active branches				

2023-035 > 2023-035 > Repository

IT20133504_Weer...

2023-035 / +

History

Find file

Web IDE

Clone

Mind-map download feature added
Weerasekara N.N authored 3 days ago

69c56d41

Name	Last commit	Last update
BloomQuest	Mind-map download feature added	3 days ago
IT20123468	Changed folder structure	2 weeks ago
IT20133368	change folder structure	2 weeks ago
IT20133504	Updating Folder Structure	1 week ago
README.md	Update README.md	3 months ago

6. UI Designs and Testing

[Home](#) [Subjects](#) [Resources](#) [Feedback](#)

IT1040 [Dashboard](#)

Database Management Systems

[+ Add Topic](#)

Introduction to DBMS. [Edit](#)

[Upload Material](#)

[View Material](#)

[View Mind Map](#)

[Attempt Quiz](#)

[Home](#) [Subjects](#) [Resources](#) [Feedback](#)

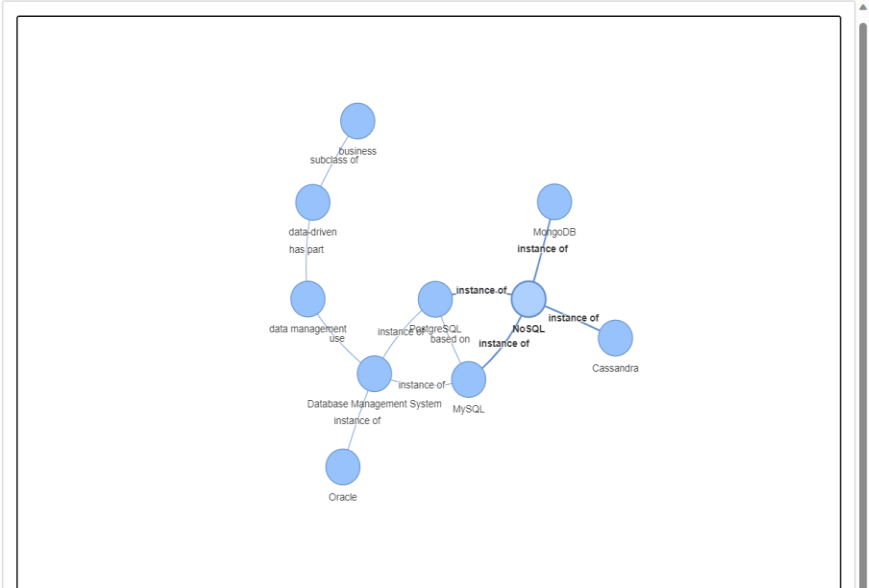
Input Material

Insert your paragraph here...

[Generate](#)

Mind Map

Download



7. Teams Planner

22

General

Posts

Files

2023-035-Planner

+

Meet

Completed

Filter (1)

List

Board

Charts

Schedule

Task title	Completed by	Priority	Completed	Bucket
+ Add a task				
✓ Implement a code to filter the extracted Relation triplets:	WI Weerasekara N.N it...	9/9		Implementation
✓ Implement a python function to upgrade the generating time for the Mind+...	WI Weerasekara N.N it...	9/9		Implementation
✓ Create an interface to input a study material (PDF/Word)	WI Weerasekara N.N it...	9/8		Implementation
✓ Implement a python function to extract triplets from the output generated b...	WI Weerasekara N.N it...	9/8		Implementation
✓ Entity extraction and Relationship extraction process update:	WI Weerasekara N.N it...	9/8		Implementation
✓ UI Designing	WI Weerasekara N.N it...	9/8		Implementation
✓ Implement a python code for entity and relationship extraction:	WI Weerasekara N.N it...	9/8		Implementation

22

General

Posts

Files

2023-035-Planner

+

Meet

Group by Bucket

Filter (1)

List

Board

Charts

Schedule

Implementation

Presentations

Testing

Add new

+ Add task

Mind Map - Fine Tune Filtering

10/02

WI

+ Add task

Final presentation.

Due

CI SI WI +1

+ Add task

Mind Map - Unit Testing

09/30

WI

Completed tasks

7

▼

Completed tasks

3

▼

WI

Weerasekara N.N it20133504

+

Add task

Due

WI

○

Project final report.

Documentation

!

09/10

SI

WI

CI

+1

○

Research paper.

Documentation

!

09/20

SI

WI

CI

+1

○

Final presentation.

Presentations

Due

CI

SI

WI

+1

Completed tasks

22

▼

