INTELLIGENT CONTENT AGGREGATOR AND KNOWLEDGE SYNTHESIZER

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INTELLIGENT CONTENT AGGREGATOR AND KNOWLEDGE SYNTHESIZER

Capstone Report

submitted to

School of Technology, Woxsen University

B. Tech

Artificial Intelligence and Data Science

By

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Vissarapu Srinath

Pettugani Hotragn

Under the guidance of

Dr. Kiran Kumar Ravulakollu

WOXSEN UNIVERSITY, HYDERABAD

March 2024

CERTIFICATE

This is to certify that the report entitled "INTELLIGENT CONTENT AGGREGATOR AND KNOWLEDGE SYNTHESIZER", submitted by Vissarapu Srinath (20WU0101031), Pettugani Hotragn (20WU0101030) and Eguturi Manjith (20WU0101005) to the School of Technology, Woxsen University, for the successful completion of the capstone project - 2, is a record of bonafide research work carried out by them under my supervision and guidance. To the best of my knowledge, the work embodied in this Project have not been submitted to any other university or institute for the award of any other degree or diploma.

_____	_____
Prof. Dr. Jaswanth Nidamanuri (Program Chair)	Prof. Dr. Kiran Ravulakollu (Dean, School of Technology)

DECLARATION

I certify that.

- ✓ The work contained in this report is original and has been done by me.
- ✓ I have followed the guidelines provided by the School of Technology while preparing the report.
- ✓ I have confirmed the norms and guidelines given in the Ethical Code of Conduct of the University.
- ✓ Whenever I have used materials (data, theoretical analysis, figures, and text) from other sources, I have given due credit to them by citing them in the text of the thesis and giving their details in the references. Further, I have taken permission from the copyright owners of the sources, whenever necessary.

ACKNOELWEDGEMENTS

First and foremost, we would like to express our deep sense of gratitude and indebtedness to my Supervisor Dr Kiran Kumar Ravulakollu for his valuable encouragement, suggestions, and support from an early edge of this project and providing us extraordinary experiences throughout the work. Above all, his priceless and meticulous experience supervision at each phase of work inspired me in innumerable ways.

We especially acknowledge his advice, supervision, and the vital contribution as and when required during this project. His involvement with originality has triggered and nourished my intellectual maturity that will help us for a long time to come. We are proud that we had an opportunity to work with an exceptionally experienced professor like him. We express our sincere thanks to all the faculty members of the School of Technology for their support.

V. Srinath – 20WU0101031
E. Manjith – 20WU0101005
P. Hotragn – 20WU0101030

List of abbreviations

ICAKS – Intelligent Content Aggregator and Knowledge Synthesizer

DOM – Document Object Model

API - Application Programming Interface.

Abstract

As browsing has become a daily routine, the time a person takes to analyze through multiple websites at a single shot and understand them is difficult. These findings had become tough while correlating the content from multiple websites which is leading to ambiguity in human brains.

Motivated by this, this project will focus on correlation between the information from various pages and formats. There are endless extensions like copy fish and vowel ai which can extract text or summarize wrt the feature of extension. Yet there's a lot of complications for us as humans to compare and thereby conclude a single concept.

Collective analysis of a single topic from various written styles would help users to increase productivity and management in terms of time invested. We will be having a single extension that can extract data from multiple active tabs with the utmost experience to users, which will improve their performance and work.

Contents

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1. INTRODUCTION

In an era where browsing is ubiquitous, the challenge lies in efficiently analyzing multiple websites to grasp essential information. Current methods often lead to information overload and difficulty in synthesizing data across various sources. Our project presents the Integrated Content Aggregation and Knowledge Synthesis (ICAKS) extension, driven by these challenges. With the help of this browser extension, users will be able to extract and summarize data from various currently active web pages, which will improve their productivity and time management more efficiently.

Through the automated gathering and arrangement of real-time DOM data, ICAKS aims to deliver maximum effectiveness in terms of information perception and summarization. By utilising machine learning and natural language processing (NLP), the extension provides users with a unified overview of aggregated content from active websites.

2. LITERATURE SURVEY

2.1Existing work [1]

- An extension that has developed to help the users with poor English using the python dictionaries, google cloud firebase, and flask. This extension will generate pre-defined difficult words based on an article/website by parsing the content.

- With the information extracted, it will map the definition of words generated to a dictionary and check if the extension is able to accurately generate the words.

- In addition, this extension will have a track of the most difficult words for users and use this information for future users to have a seamless experience.

- In conclusion, this extension provides a simple understanding of difficult words to users in English.

2.2Extension [2]

- The MaxAI extension has a variety of features that use most versions of ChatGPT and provide results for the user.

- It helps in summarizing a text from a single page, Generating the content for email, and even as an assistant chatbot.

- It works as an assistant and uses ChatGPT 4 to produce results only with the premium plan whereas the free plan only provides limited ChatGPT usage per day and a mini menu for a text selected.

2.3 Existing extension [3]

- Given any prompt with web access, the extension can give a response based on the latest news in ChatGPT. It can even scrape data from a URL by restricting responses to a specific URL and giving responses respectively.

- It can perform a one-click prompts wrt required language, Tone, Writing style and Topic for a specific selected article/website.

- Many extensions can replicate the same usage, but the mentioned extensions are the popular ones with most users.

2.4 Motivation and problem statement

As browsing has become a daily routine, the time a person takes to analyze through multiple websites in a single shot and understand them is difficult. These findings had become tough while relating the content from multiple websites which is leading to ambiguity in human brains. Motivated by this, this extension will focus on the correlation between the information from various pages and formats. Typical extensions provide us with a summary but there are a lot of complications for us as humans to compare multiple websites and thereby conclude a single concept. Collective analysis of a single topic from various written styles would help users increase productivity and management in terms of time invested. The ICAKS has a single extension that can extract data from multiple active tabs with the utmost experience for users, which will improve their performance and work. This can help in finding key insights within the information extracted, it will save time for visiting multiple tabs and find insights which reduces human effort.

The ICAKS mainly focuses on reducing redundancy and summarizing text without the need for an individual to revisit the pages again and again. Additionally, there is a chance that multiple people will try to visit the same/similar websites and it is hard to extract data each time. In this regard, there will be a tracker which not only visualizes the visited websites/content summarized, but also even stores the historical data concerning security measures. With the help of this data, we will suggest the users for the websites they are looking for and reduce the time even in terms of searching. In conclusion, this extension can help individuals find the summarization of data and let them track their progress with the help of an extension and website.

3 PROPOSED METHODOLOGY

Step:1- DOM Elements from the visited pages will be collected through an extension which will be built using JavaScript. Once the DOM content is accessed it will be sent to the backend using an API. Image tags will be extracted separately and will be sent to the backend in the form of URL or file format.

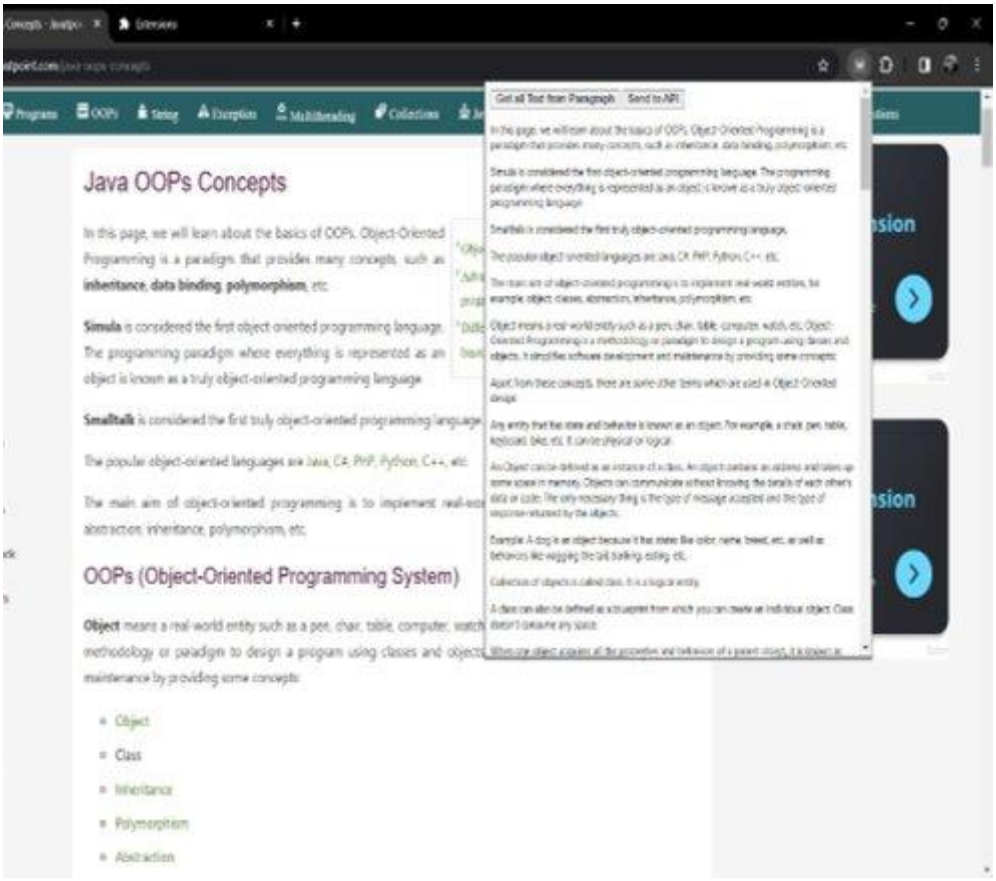


Figure 1: Extension for extracting text from active tab

Step:2-

Model Based Extraction- As all websites do not follow the same structure, we try eliminating most of the unused content in the first step. We will try and build a machine learning model which should be able to separate tags based on their content.

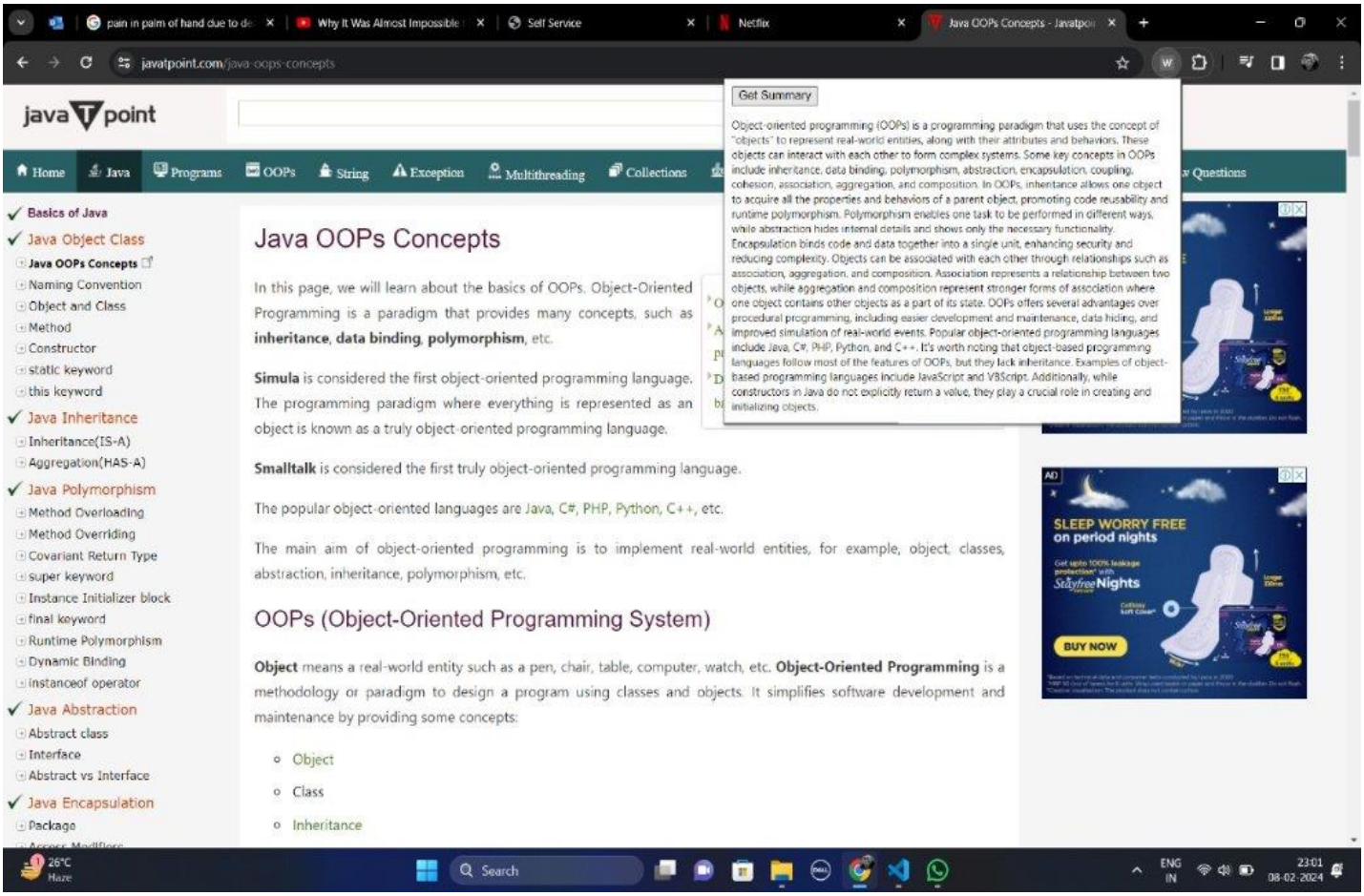


Figure 2: Summarized content for the active tab

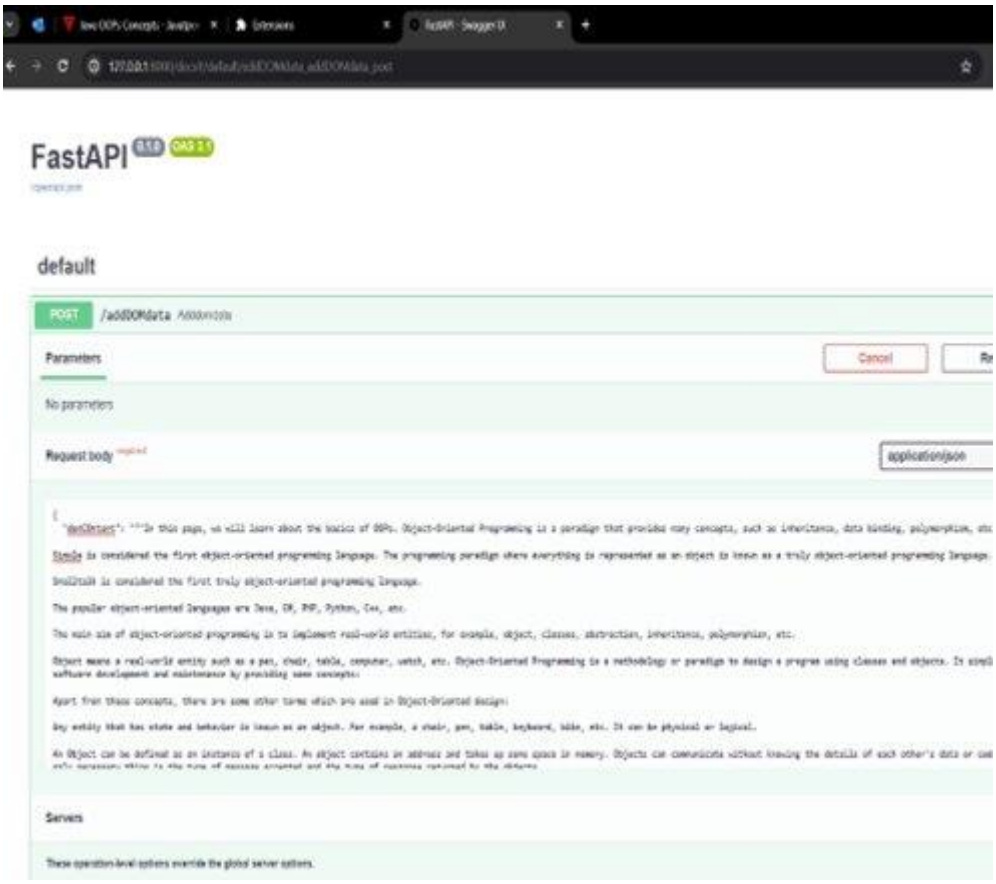


Figure 3: API for receiving extracted content to the backend.

Step:3- Development of an algorithm that can do the below:

Based on the title of the DOM. Once all documents are segregated, the summarization of each title will be performed. Further, there will be a summary of all similar titles together and a separate summary considering all content.

Step:4-

A website will be developed to visually track the stats of a user and similar content using the data repository constructed & updated based on extension usage.

Step:5- **Tag Elimination**

As all websites do not follow the same structure, we try eliminating most of the unused content as the first step. We will try to eliminate the tags based on their content.

Once information is extracted it will be stored in the database along with the website name, topic searched, and timestamp. Summarized content is stored alongside DOM content. As the user stops browsing, the summarizing process will start in the backend which involves APIs and other text summarization models to summarize all the extracted content into one single chunk and store it. A user interface will be developed so users can login and view their searched topics and their summaries along with them. This website will be developed using react and the backend remains the same with additional fetch Apis added. As part of this development, we will be conducting regular reviews for the outputs and process to check the risks, working efficiency, and mitigate the risks as well as updating the methods or extraction accordingly which focuses on making the product for users to have the utmost experience. Furthermore, the approach will be proposed to incorporate this innovative idea in the form of a multilingual summarization extension and the Research/Content Recommendation Systems.

4 Results and Discussions

The ICAKS extension has been developed, enabling the extraction of data from multiple active tabs, and providing users with succinct summaries of the content. This functionality streamlines information processing, facilitating enhanced productivity and efficiency in accessing and comprehending information from diverse sources.

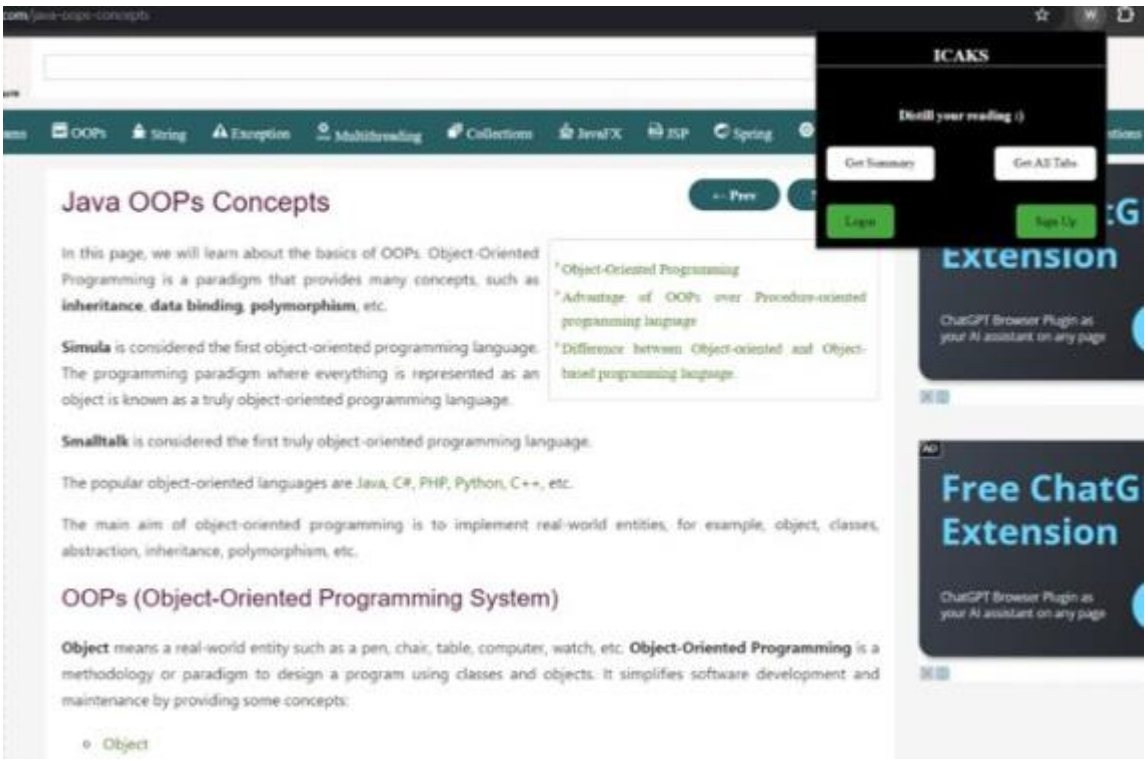


Figure 4 Extension to the browser.

From the above image, we can observe the interface of the extension, which includes options for “Get Summary” and “Get All Tabs.” Upon clicking the “Get All Tabs” button, the extension will store information from all open tabs. Subsequently, clicking the “Get Summary” button will display a summary of the contents from all open tabs.

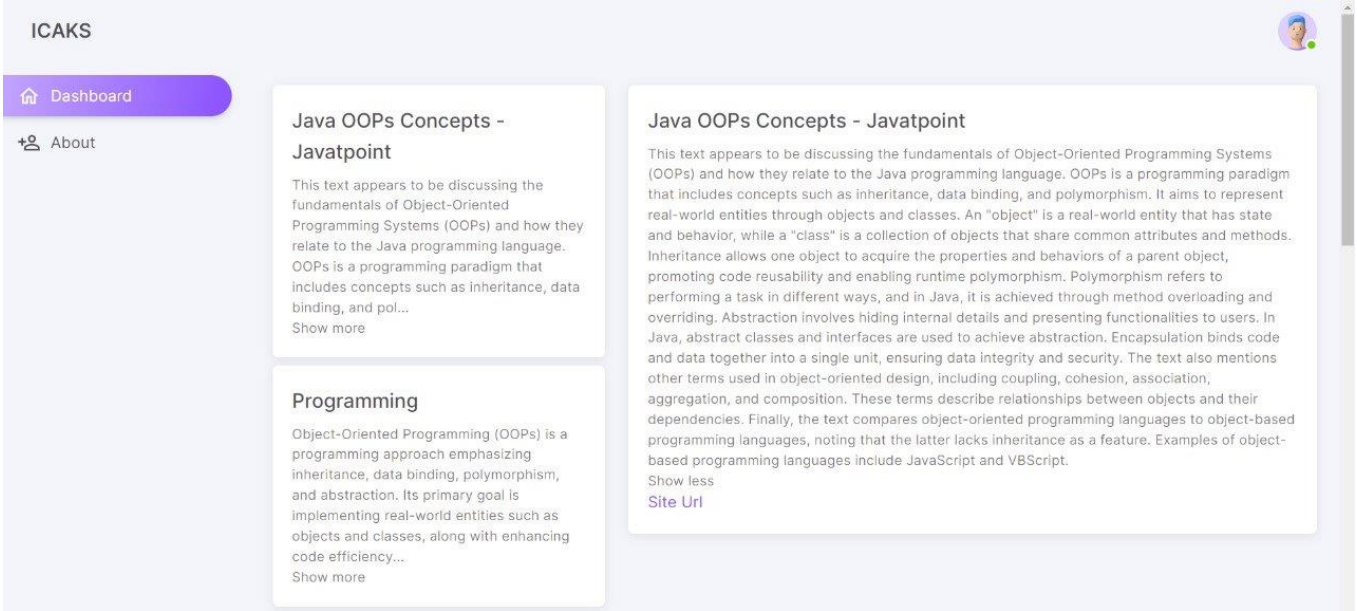


Figure 5 summary dashboard

Figure 6 Summarized content

From figures 5 and 6 above, we can observe the dashboard displaying the summarized content, where various websites are summarized. The extension includes a “Get Summary” button that redirects users to this dashboard. Within the summarized content, users can find the web URL. From which the content was extracted, located at the end of each summary.

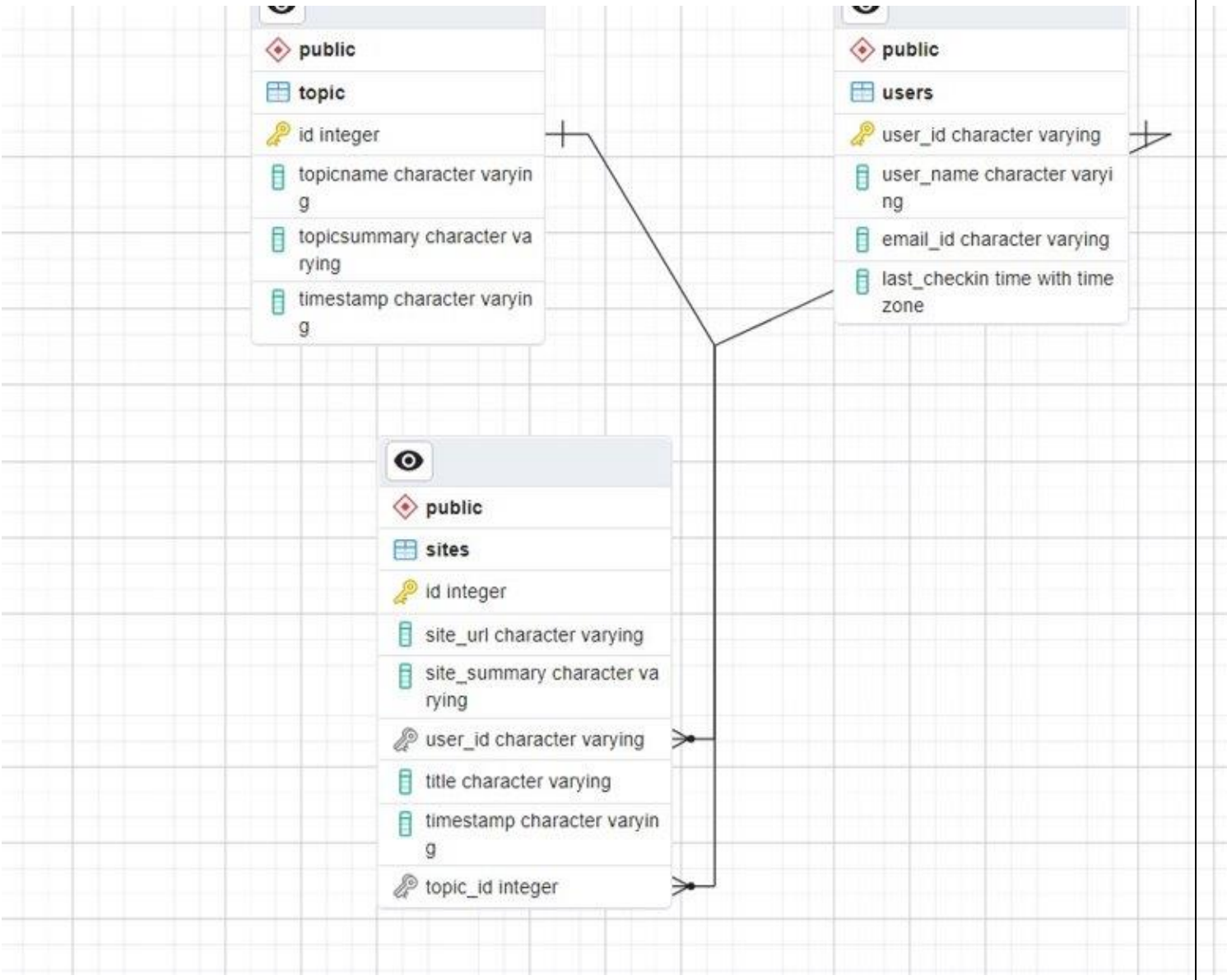


Figure 7 Data Base Design

Figure 9 shows the DB design of extension where it has topic, sites, and Users. In topic it Has id, topic summary and timestamp. In user DB has User id, User name, email address and last_check in time. And in sites DB has id, site URL, site summary.

Figure 8 Extension Interface

Models	Bleu	Rouge	METEOR	BERT	Word Mover's Distance	Self-Bleu	Perplexity vp8-=/
MPT(MosaicML_84kTokens)	0.38	0.36	0.22	0.51	0.46	0.30	80
FLAN-T5	0.43	0.38	0.25	0.55	0.50	0.26	76
philschmid/bart-large-cnn-samsum	0.42	0.35	0.26	0.49	0.48	0.29	79
Hugchat	0.46	0.41	0.31	0.60	0.52	0.34	68
Falconsai/text_summarization	0.39	0.32	0.25	0.52	0.44	0.29	84
ARTeLab/it5-summarization-mlsum	0.40	0.37	0.29	0.54	0.47	0.28	77

Figure 9 Ablation study

- Figure 11 shows the ablation study of the models, encompassing evaluations based on metrics such as Bleu, Rouge, METEOR, BERT, Word Mover's Distance, self-Bleu, and perplexity. Utilizing Hug chat with Hugging Face yields superior scores compared to other models, demonstrating its effectiveness in the summarization task.

- Hugging Face's includes varied pre-trained models such as BART and T5, preparing to different summarization needs across various content types found in active tabs.

- Models on Hugging Face are finely tuned and consistently achieve top scores across evaluation metrics like BLEU, ROUGE, and METEOR, ensuring the generation of accurate and informative summaries for users.

- Our extension can tailor the summarization process to suit different types of content, ensuring that summaries extracted from active tabs are relevant and comprehensive.

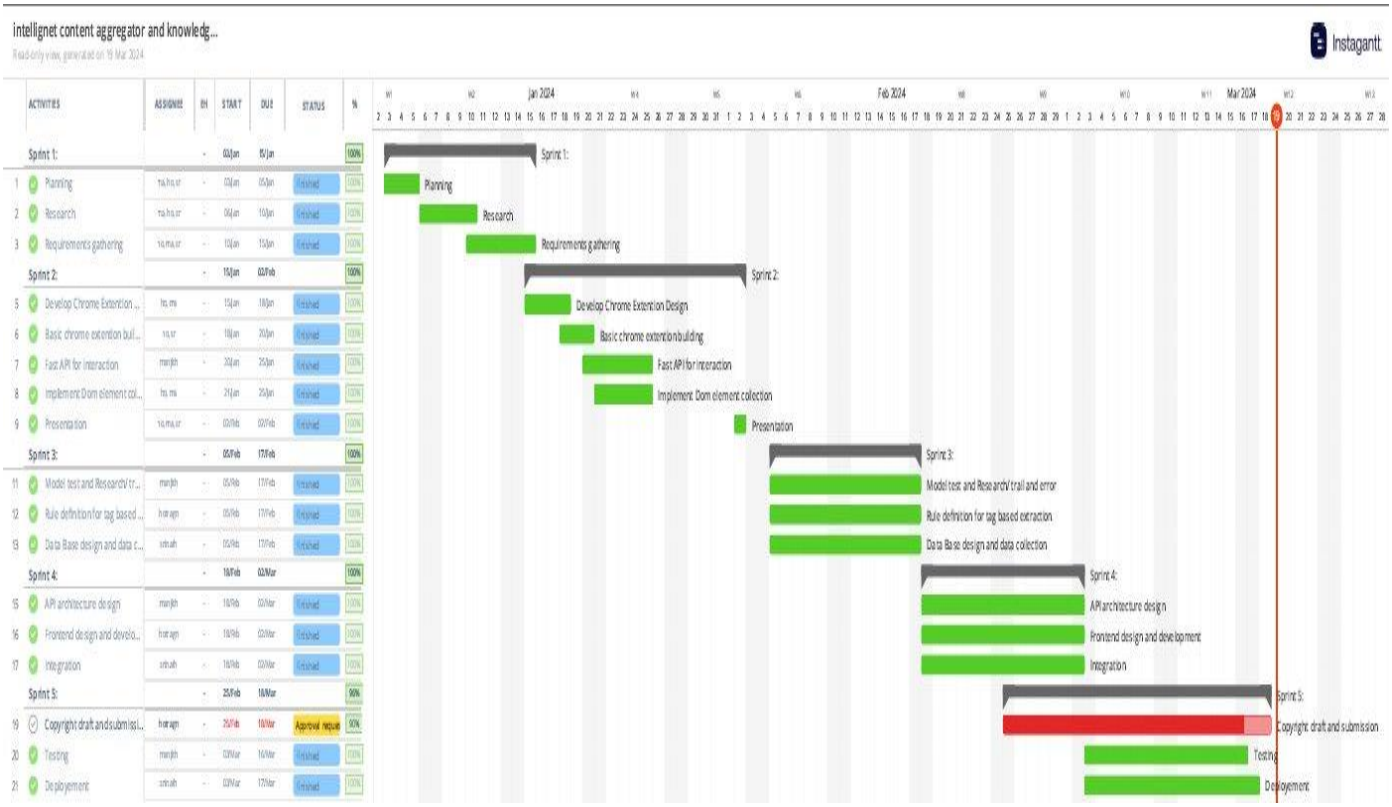
5 CONCLUSION

In conclusion, the development of the ICAKS extension, or Intelligent Content Aggregator and Knowledge Synthesiser, we have successfully developed an addon that can take data from several open tabs and synthesise it into summaries, increasing user productivity and efficiency through careful design and execution. We have protected our creative solution and made it possible for it to be widely used by filing the extension for copyright protection.

Future Scope:

Moving forward, several avenues for further enhancement and expansion of the ICAKS extension present themselves. Firstly, efforts should be directed towards ensuring universal support across all major web browsers, thereby maximizing accessibility and usability. Additionally, continued refinement of the summarization algorithms is necessary to optimize the maximum length of summaries while maintaining coherence and relevance. Moreover, stringent measures must be implemented to prioritize data privacy and security throughout the data extraction and storage processes, addressing concerns regarding user confidentiality and trust. Furthermore, the adaptation of algorithms to accommodate the diverse formats of webpages is crucial for maintaining flexibility and accuracy across various online sources. By addressing these constraints and pursuing future developments, the ICAKS extension is poised to further revolutionize the way users interact with and synthesize.

GANTT CHART


intellignet content aggregator and knowledg...
Read-only view, generated on 19 Mar 2024
Instagantt
ACTIVITIES
ASSIGNEE
SH
START
DUE
STATUS
%
Jan 2024
Feb 2024
Mar 2024
Sprint 1:
Planning
Research
Requirements gathering
Sprint 2:
Develop Chrome Extention Design
Basic chrome extention building
Fast API for interaction
Implement Dom element collection
Presentation
Sprint 3:
Model test and Research trail and error
Rule definition for tag based extraction
Data Base design and data collection
Sprint 4:
API architecture design
Frontend design and development
Integration
Sprint 5:
Copyright draft and submission
Testing
Deployement

REFERENCES

[1] Zhao, Tongde, and Khoa Tran. “Apowerful CHROME EXTENSION: TRANSLATION PROGRAM USING PYTHON, WEBSITE ANALYSIS AND GOOGLE FIREBASE SERVICES.” *CS & IT Conference Proceedings*. Vol. 13. No. 7. CS & IT Conference Proceedings, 2023.

[2] https://maxai.me/

[3] https://chromewebstore.google.com/detail/webchatgpt-chatgpt-with-i/lpfemeioodjbpieminkklglpmhlngfcn

[4] https://chrome.google.com/webstore/detail/copyfish-%F0%9F%90%9F-free-ocr-soft/eenjdnjldapjajjofmldgmkjaienebbj

[5] https://huggingface.co/mosaicml/mpt-7b

[6] https://huggingface.co/philschmid/bart-large-cnn-samsum

[7] https://huggingface.co/chat/

[8] https://huggingface.co/Falconsai/text_summarization

[9] https://huggingface.co/ARTeLab/it5-summarization-mlsum

ANNEXURE

Software Requirements Specification

for

Intelligent content Aggregator and Knowledge Synthesizer

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19th March 2024

Table of Contents

1.0 Introduction

In an era where browsing is ubiquitous, the challenge lies in efficiently analyzing multiple websites to grasp essential information. Current methods often lead to information overload and difficulty in synthesizing data across various sources. Our project presents the Integrated Content Aggregation and Knowledge Synthesis (ICAKS) extension, driven by these challenges. With the help of this browser extension, users will be able to extract and summarize data from various currently active web pages, which will improve their productivity and time management more efficiently.

Through the automated gathering and arrangement of real-time DOM data, ICAKS aims to deliver maximum effectiveness in terms of information perception and summarization. By utilising machine learning and natural language processing (NLP), the extension provides users with a unified overview of aggregated content from active websites.

1.1 Purpose

The goal of this project is to develop the Integrated Content Aggregation and Knowledge Synthesis (ICAKS) extension to automate the extraction and correlation of data from multiple web pages, as stated in the (SRS).

1.2 Scope

The project's scope includes developing the Integrated Content Aggregation and Knowledge Synthesis (ICAKS) extension to use natural language processing (NLP) to automate the extraction of data from numerous web pages. This covers backend development for data processing as well as text summarization. The project also intends to create an intuitive user interface for a better browsing experience.

1.3 References

[1] Zhao, Tongde, and Khoa Tran. "A powerful CHROME EXTENSION: TRANSLATION PROGRAM USING PYTHON, WEBSITE ANALYSIS AND GOOGLE FIREBASE SERVICES." *CS & IT Conference Proceedings*. Vol. 13. No. 7. CS & IT Conference Proceedings, 2023.

[2] https://maxai.me/

[3] https://chromewebstore.google.com/detail/webchatgpt-chatgpt-with-i/lpfemeioodjbpieminkklglpmhlngfcn

[4] https://chrome.google.com/webstore/detail/copyfish-%F0%9F%90%9F-free-ocr-soft/eenjdnjldapjajjofmldgmkjaienebbj

1.4 Abbreviations / Acronyms / Definitions

ICAKS – Intelligent Content Aggregator and Knowledge Synthesizer

DOM – Document Object Model

API - Application Programming Interface.

2.0 Project Overview:

The main goal of the extension is to use natural language processing techniques to automate the extraction of data from different web pages. Its goal is to improve content summarization and streamline information synthesis, which will enable effective data retrieval and analysis by cutting down on redundancy.

3.0 Constraints/directives:

ICAKS generally includes: -

- All browsers must support the extension.
- Maximum length of the summarization
- Data privacy and security during data extraction and storage is imperative.
- Various webpage formats require algorithms that are flexible.

4.0 Project Approach:

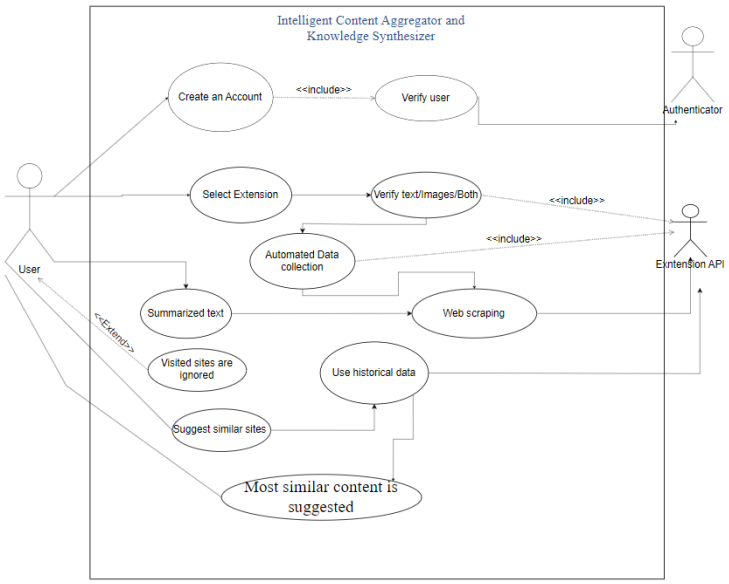
By streamlining the processes of information retrieval and summarization, this extension hopes to improve knowledge management and user productivity.

The project's goal is to gather DOM elements from visited web pages using browser extensions that are based on JavaScript. This will make it easier to extract text and image tags. Then, using rule-based extraction and tag elimination techniques, this data is processed and stored in a backend created with FastAPI (Python), where content extraction and summarization are accomplished. When a user closes their browser, the backend starts text summarising with APIs and other models, compiling the content that has been extracted for quick storage and retrieval.

5.0 Functional requirements:

- Content summarization
- Data segregation and storing
- Interface enables easy content access.

Use Case Diagram-



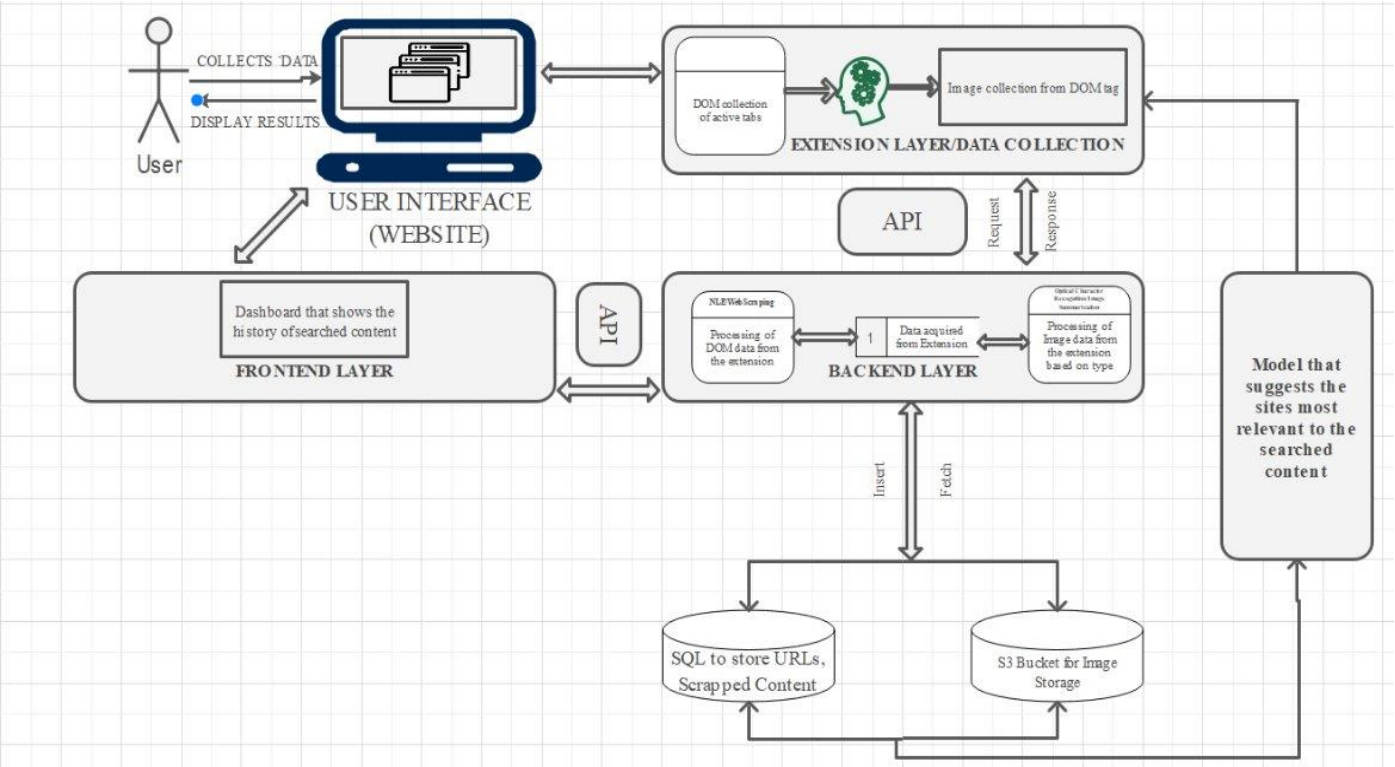
6.0 Technical specifications:

These are the prerequisites for website to access and thereby use it for summarization:

- Web application
- Chrome extension
- Data storage
- Text summarization

7.0 Recommended solutions:

7.1 Systems Architecture Diagram



8.0 Acceptance Criteria

The extension extracts and summarizes content from visited web pages, providing concise and relevant summaries and the user interface allows seamless navigation and access to stored content.

8.1 Usability

Analyze and understand content from various formats within the minimal time.

8.2 Reliability

Exact parameters like Bleu, Rouge, Word Movers Distance, Perplexity scores of the summarization vs input are to be evaluated and taken infurther implementations.

8.3 Performance

- Assigning content such that the model can summarize in a less amount of time.
- The solution provided by the algorithm is evaluated and found if it's the best one.
- Handling the complexity in a faster way by integrating FastAPI.

8.4 Supportability

Chrome Web Store and Website

9.0 Supplementary Specifications

9.1 Online User Documentation and Help System Requirements

User manuals or support will be provided.

9.2 Purchased Components

Not Applicable

9.3 Interfaces

User Interface
Extension Interface

10.0 Critical Success Factors and Assumptions:

- The Implementation of algorithm which can manage the summarization with respect to contents and tabs segregated.
- Add-ons are updated in further if there is any usage of tools/software provided by third-party.

Intelligent Content Aggregator And Knowledge Synthesizer

By

Manjith Eguturi(20WU0101005)

Hotragn Pettugani(20WU0101030)

Vissarapu Srinath(20WU0101031)

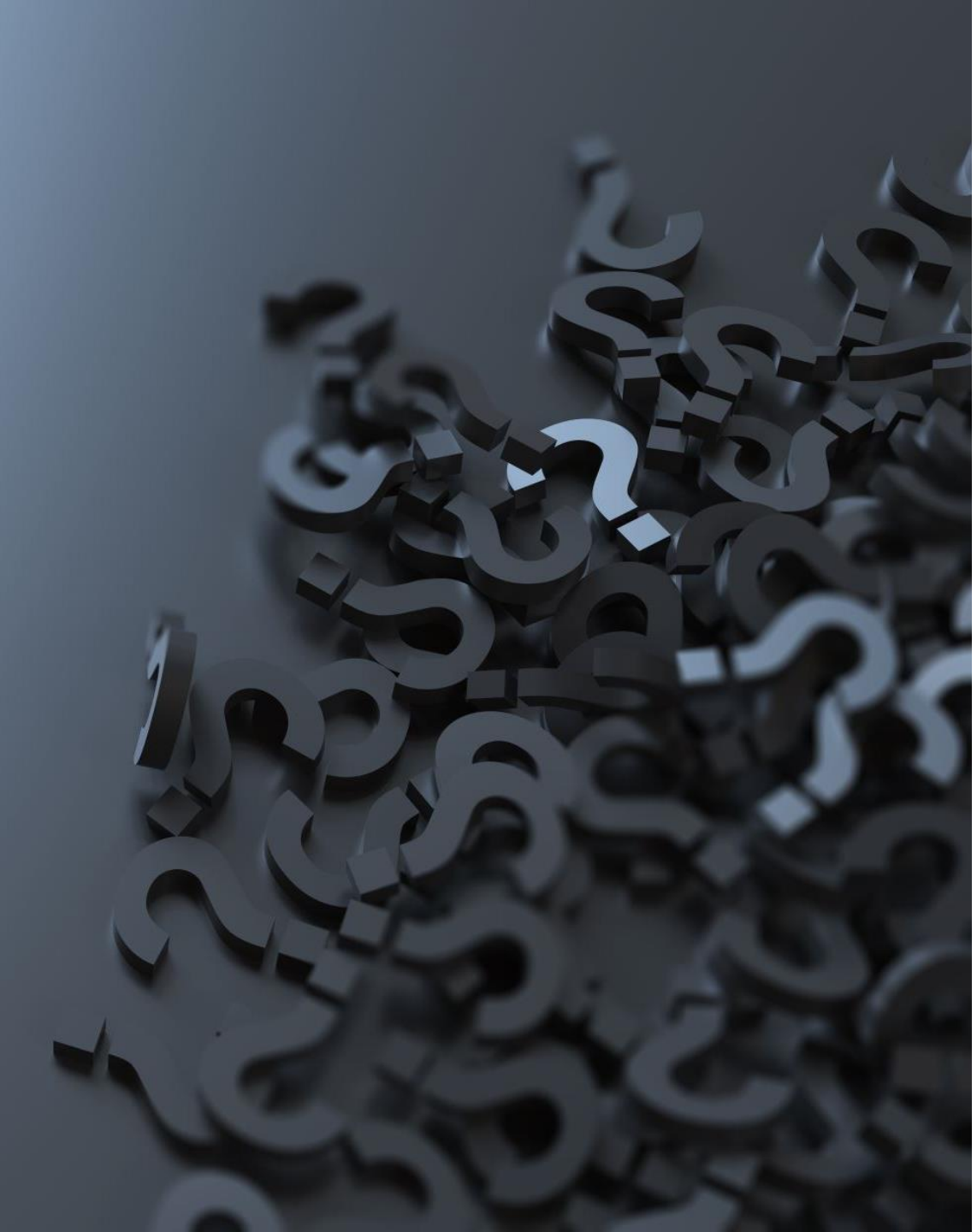
Mentor: Dr. Kiran Kumar Ravulakollu

AGENDA

- Problem Statement
- Background and Introduction
- Literature Review
- Use Case
- Architecture Diagram
- Methodology
- Preliminary Results
- Expected Outcomes
- Gantt Chart

Problem Statement

The problem lies in the time-consuming and often unsatisfactory process of retrieving relevant information from websites due to the vast amount of available content



Background And Introduction

- Copy fish[4], MaxAI[2], and WebChatgpt[3] which can extract text or summarize w.r.t the feature of the extension
- Multiple Written styles from different websites
- Extension that can increase productivity and performance

Literature Review [1]

- An extension that has been developed to help users with poor English using the Python dictionaries, Google Cloud Firebase, and Flask. This extension will generate pre-defined difficult words based on an article/website by parsing the content.
- With the information extracted, it will map the definition of words generated to a dictionary and check if the extension can accurately generate the words.
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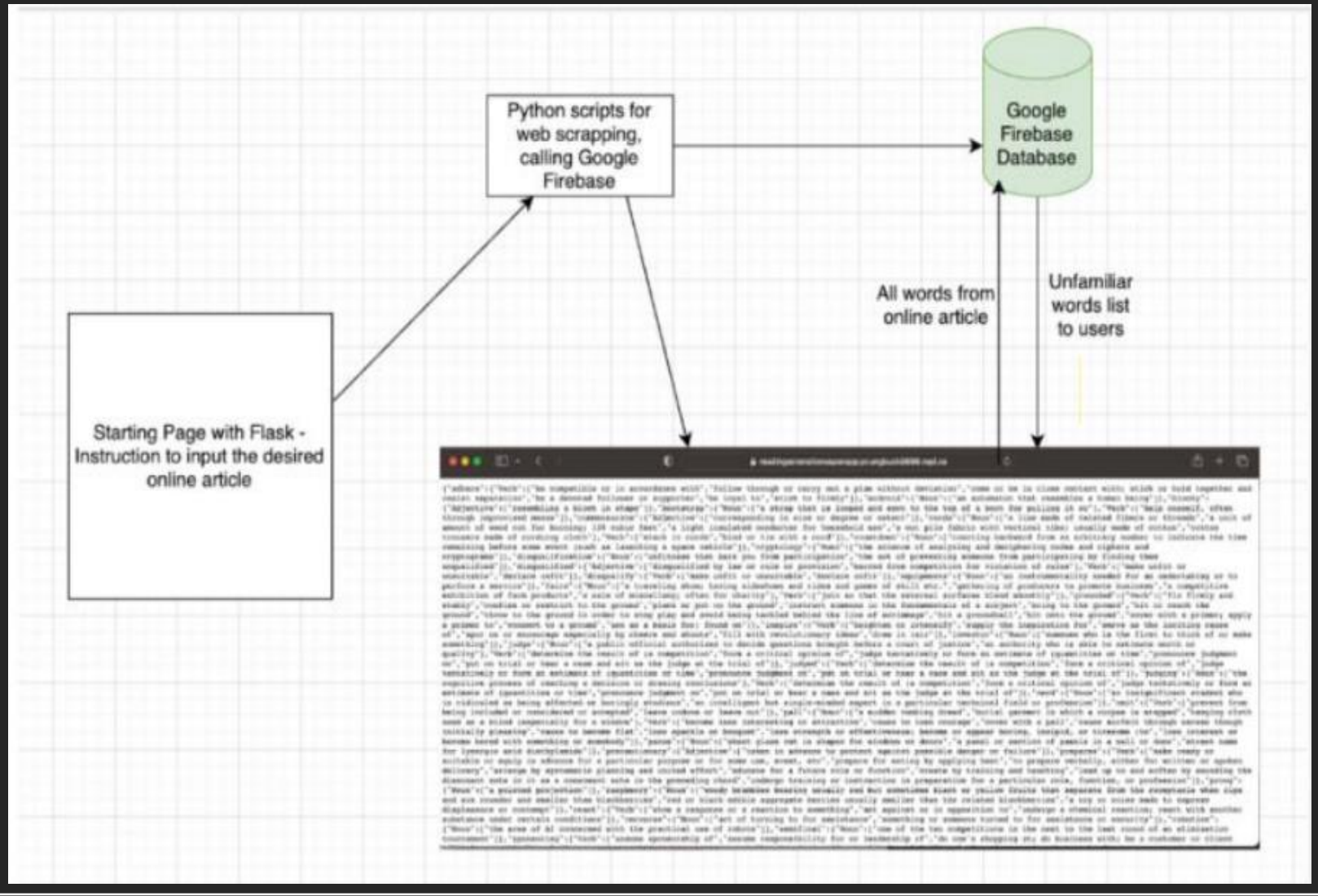
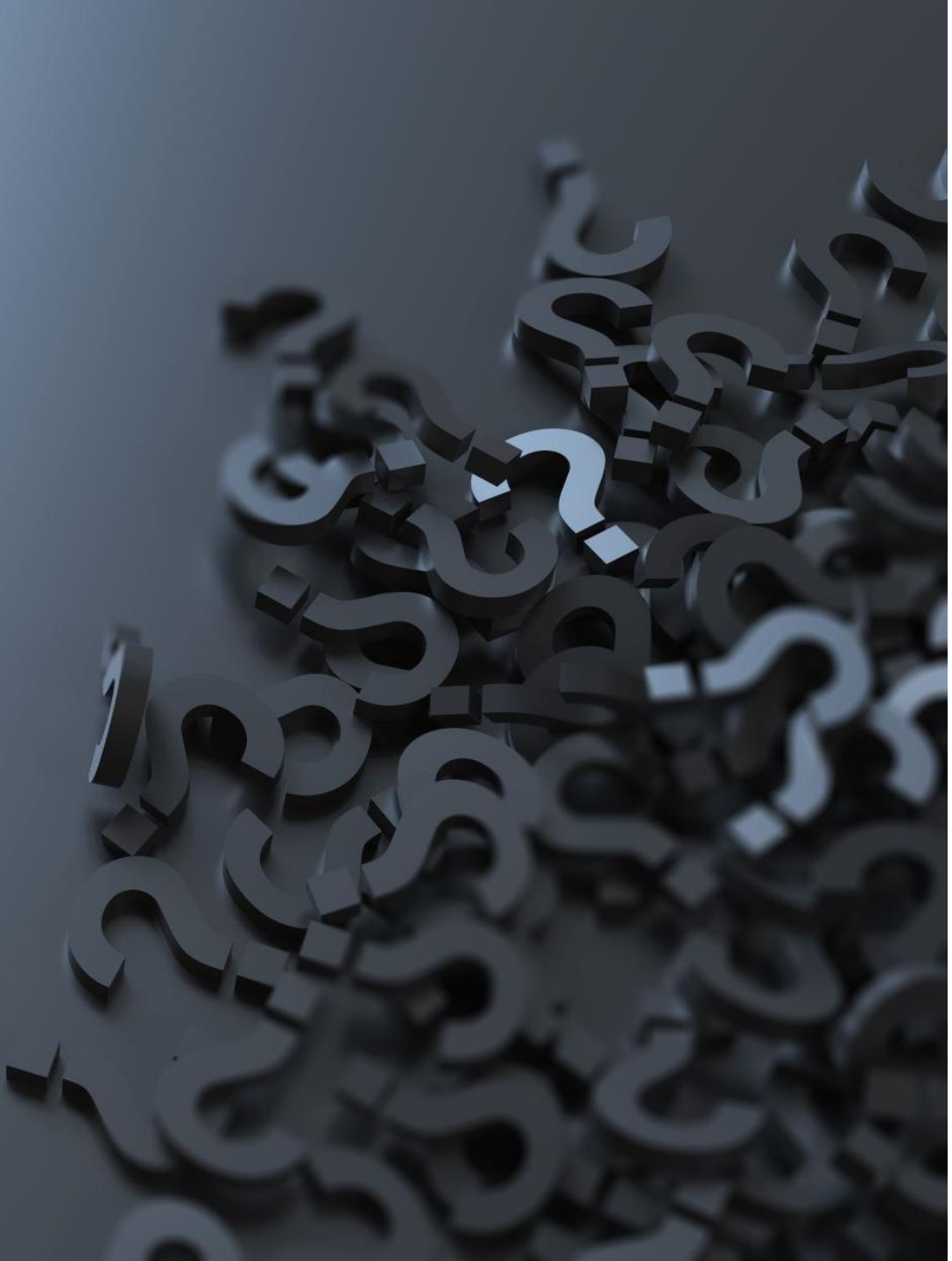
Inferences from the Work [1]





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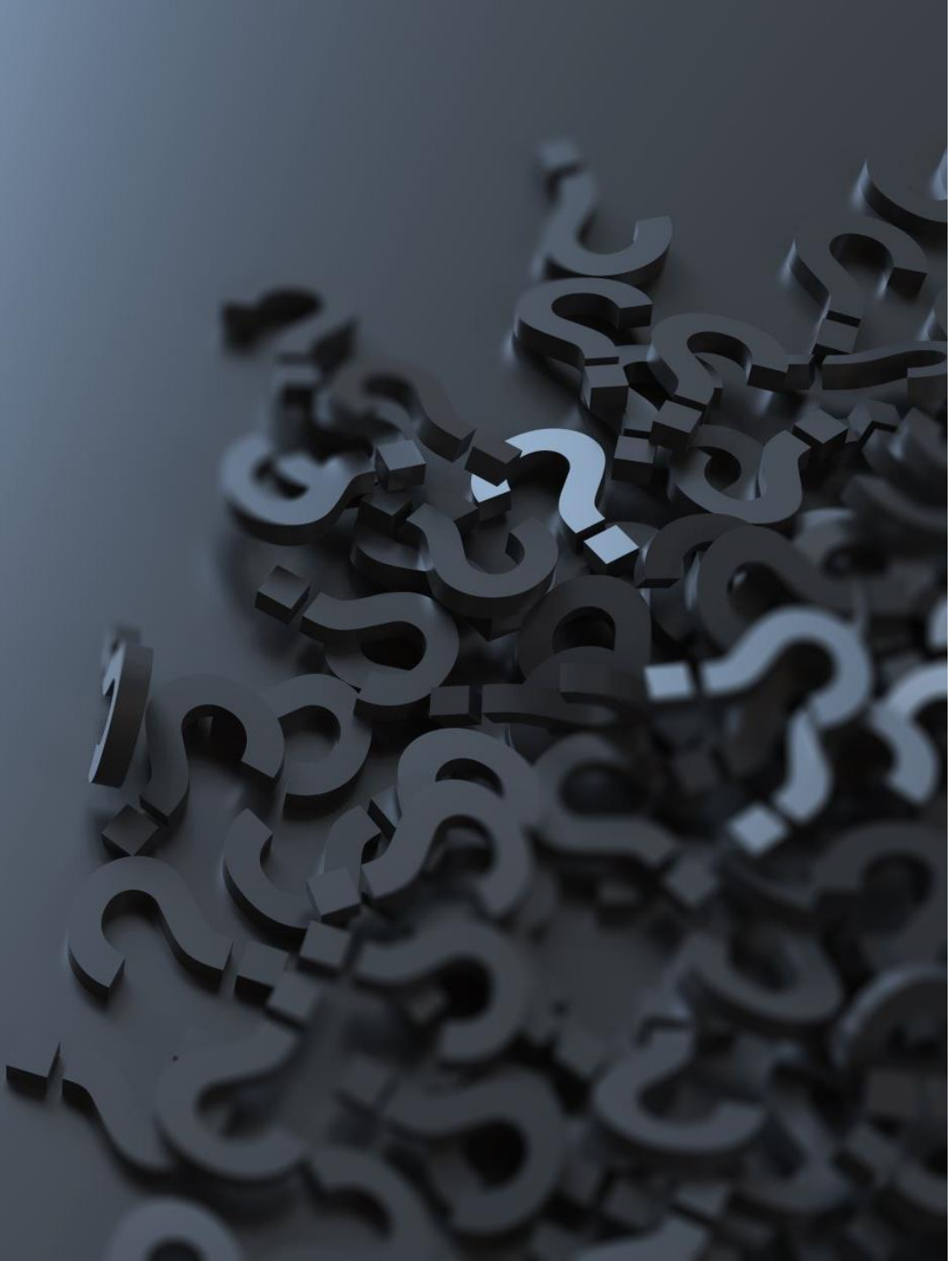

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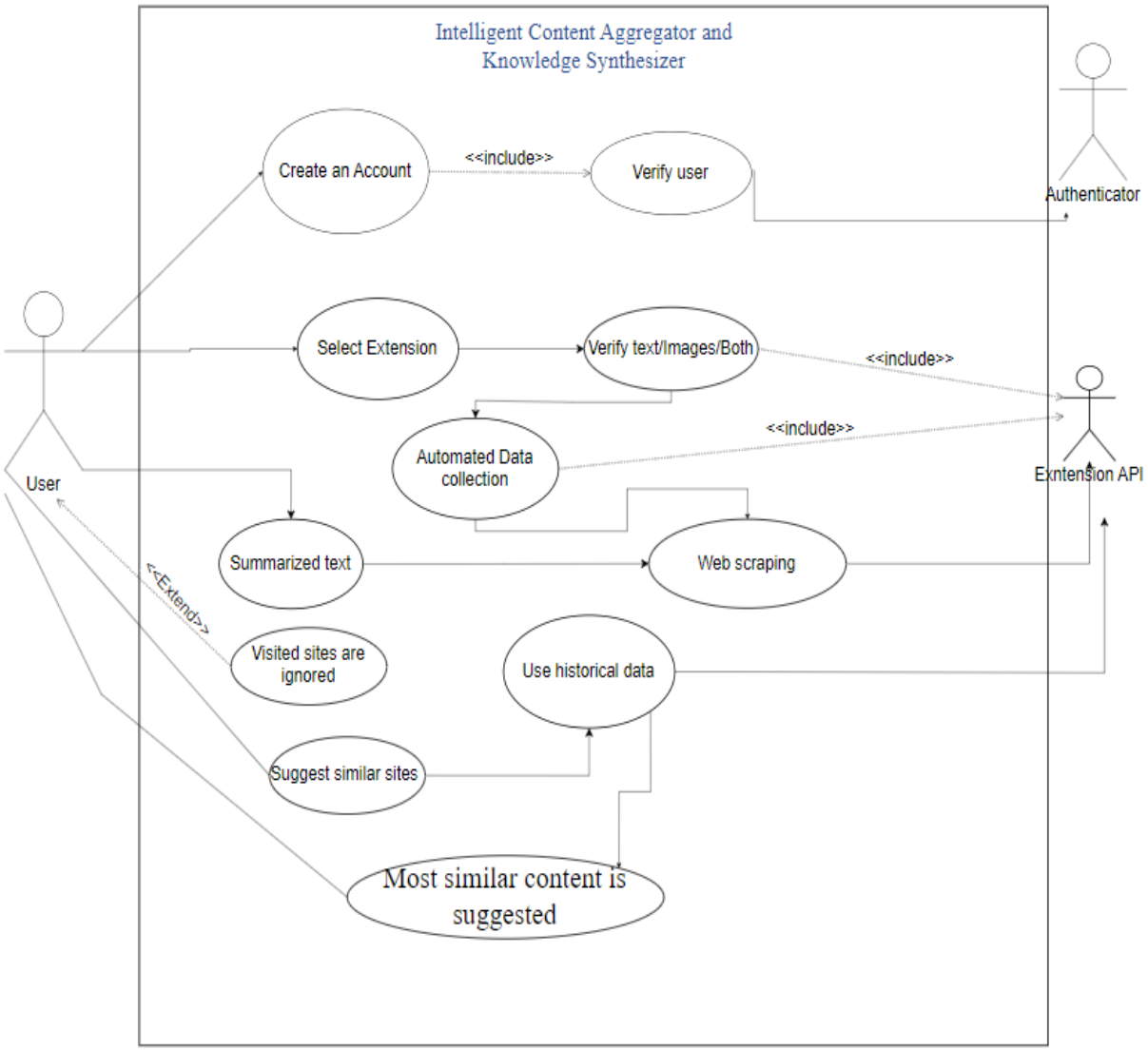
- It can perform a one-click prompts wrt required language, Tone, Writing style and Topic for a specific selected article/website.
- Many extensions can replicate the same usage, but the mentioned extensions are the popular ones with most users.

Objectives

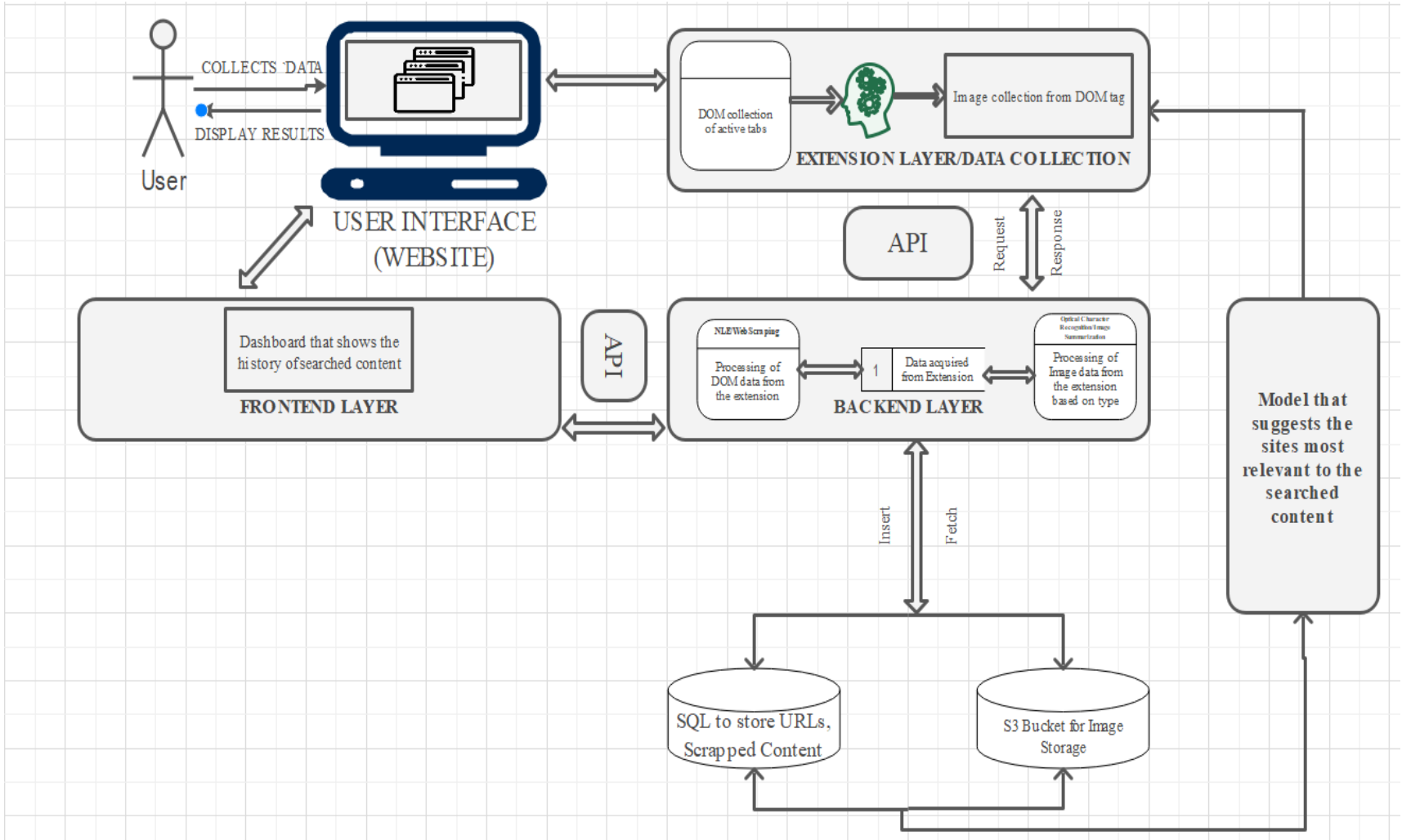
Help users to gather and summarize information automatically from visited websites.

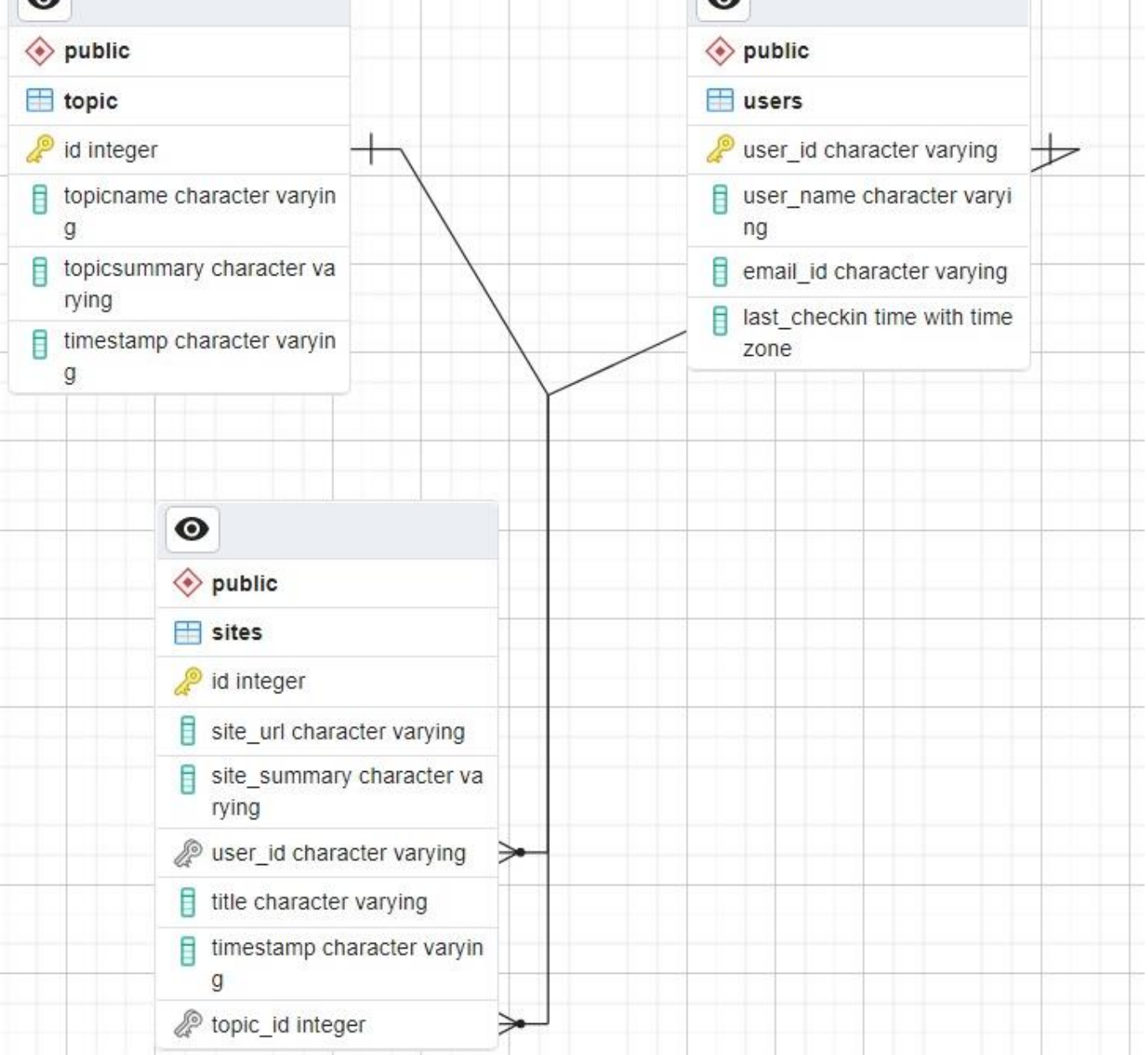
Minimal time to Research and site suggestions.

Overcome Challenges: Redundancy.



System Architecture





Data Base Design

Methodology

1

DOM Elements from the visited pages will be collected through an extension which will be built using JavaScript. Once the DOM content is accessed it will be sent to the backend using an API. image tags will be extracted separately and will be sent to the backend in the form of URL or file format.

2

Model Based Extraction- As all websites do not follow the same structure, we try eliminating most of the unused content in the first step. We will try and build a machine learning model which should be able to separate tags based on their content.

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Development of an algorithm that can do the below:

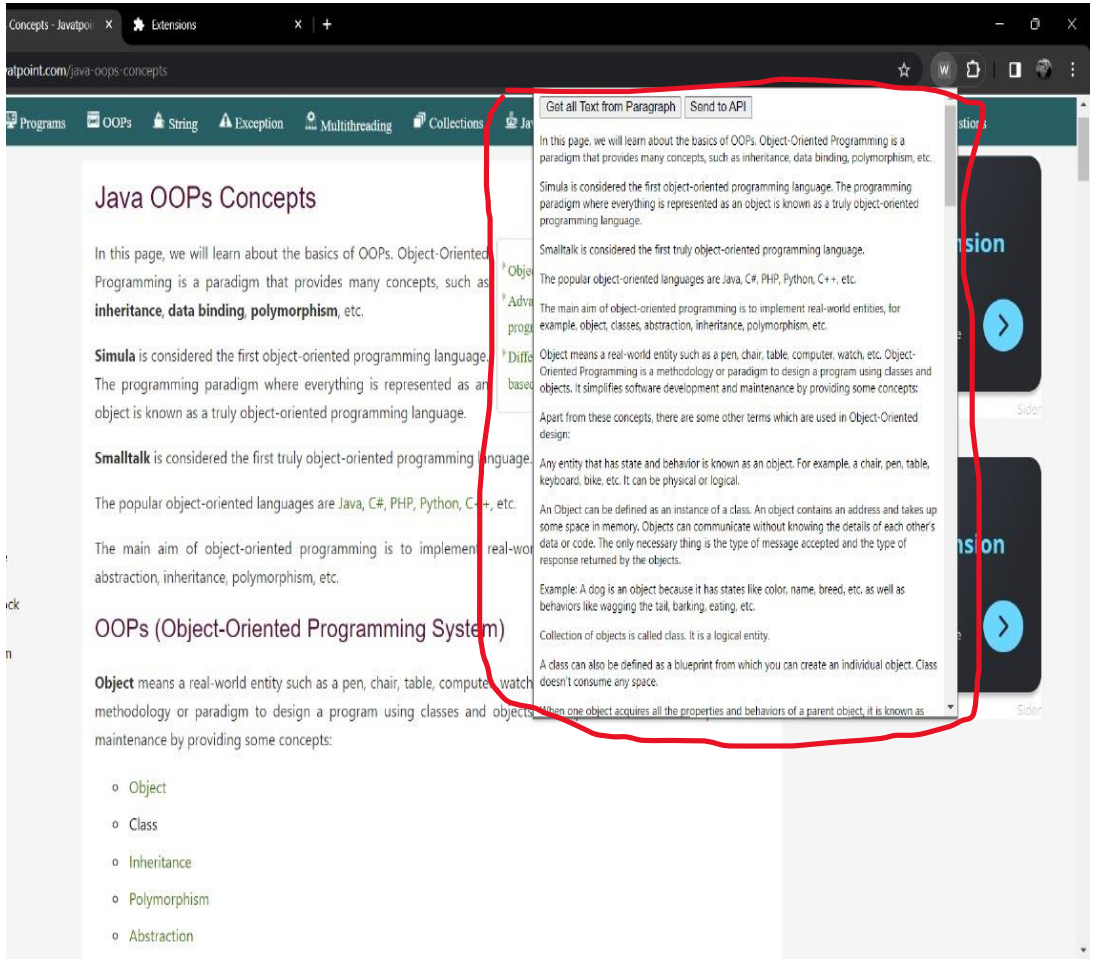
Based on the title of the DOM. Once all documents are segregated, the summarization of each title will be performed. Further, there will be a summary of all similar titles together and a separate summary considering all content.

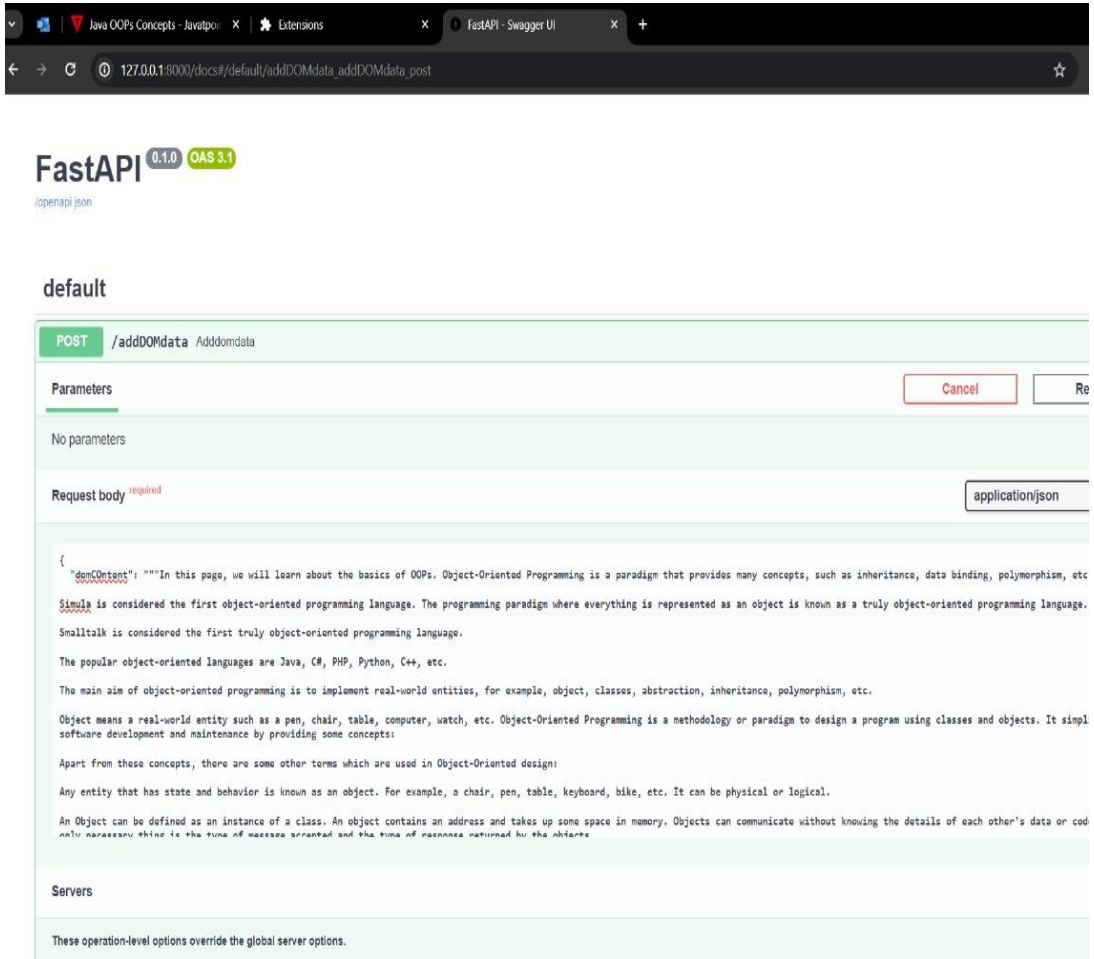
4

A website will be developed to visually track the stats of a user and similar content using the data repository constructed & updated based on extension usage

Preliminary Results

1



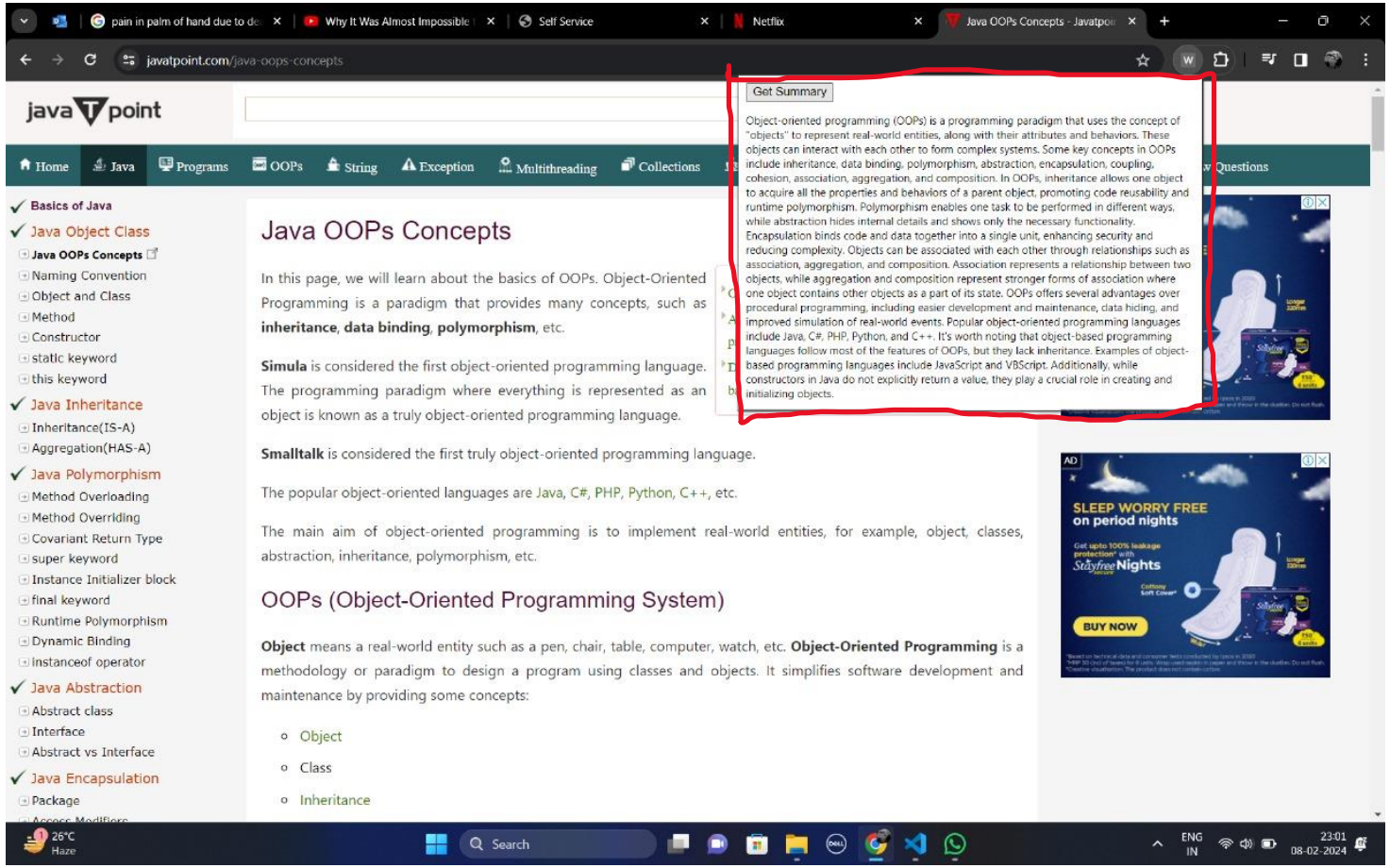


Extension for extracting text from active tab

API for receiving extracted content to the backend

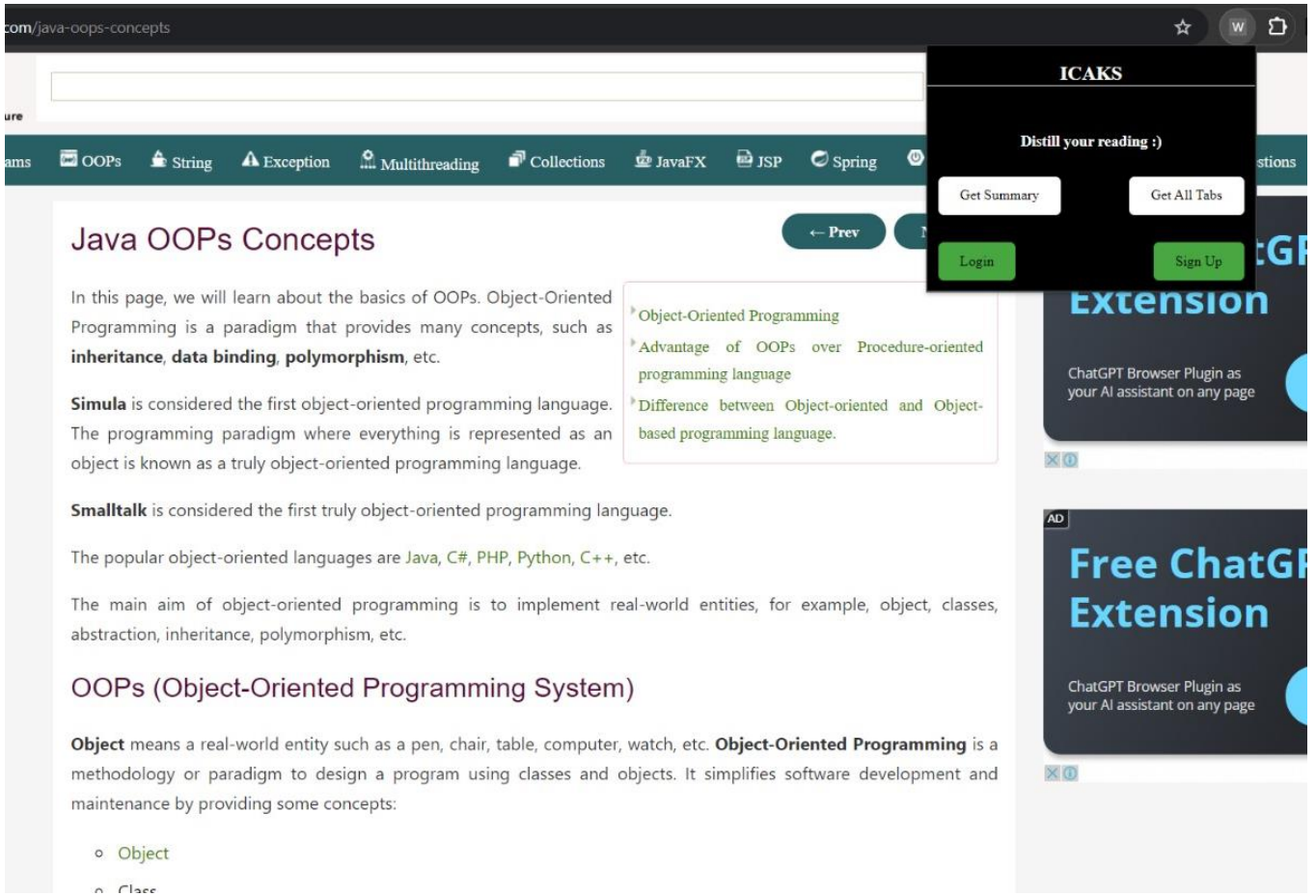
Preliminary Results

2

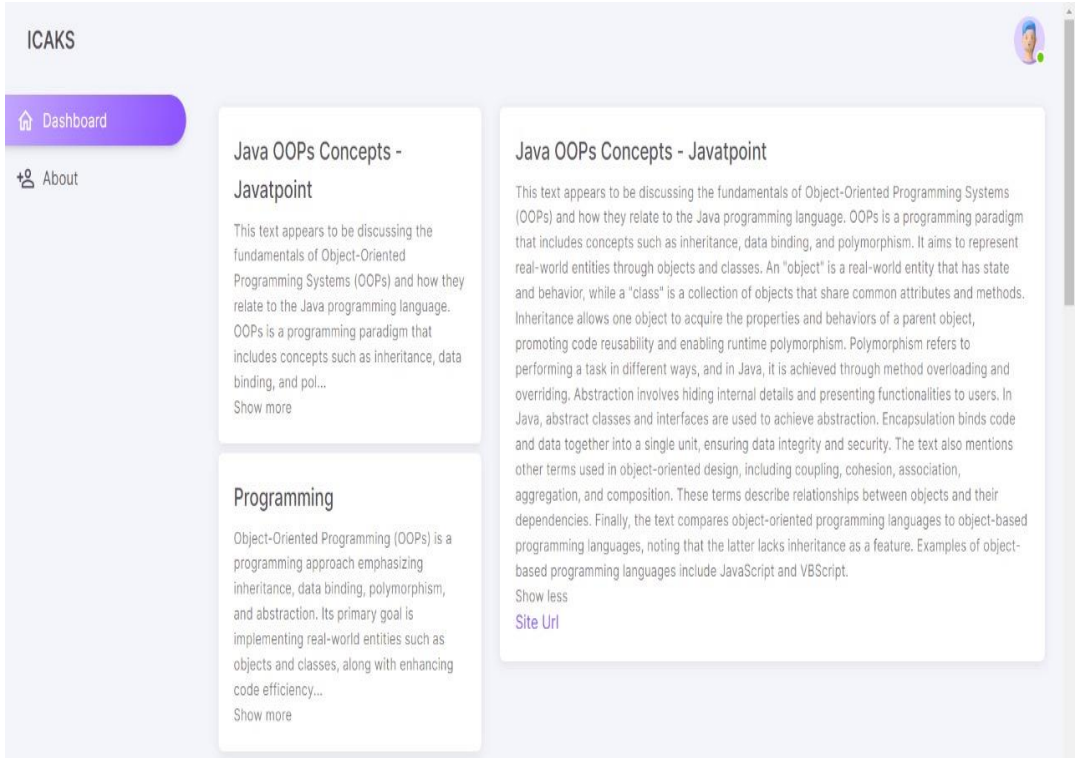


Summarized content for the active tab

Results


com/java-oops-concepts
ICAKS
Distill your reading :)
Get Summary
Get All Tabs
Login
Sign Up
OOPs
String
Exception
Multithreading
Collections
JavaFX
JSP
Spring
Java OOPs Concepts
← Prev
In this page, we will learn about the basics of OOPs. Object-Oriented Programming is a paradigm that provides many concepts, such as inheritance, data binding, polymorphism, etc.
Simula is considered the first object-oriented programming language. The programming paradigm where everything is represented as an object is known as a truly object-oriented programming language.
Object-Oriented Programming
Advantage of OOPs over Procedure-oriented programming language
Difference between Object-oriented and Object-based programming language.
Smalltalk is considered the first truly object-oriented programming language.
The popular object-oriented languages are Java, C#, PHP, Python, C++, etc.
The main aim of object-oriented programming is to implement real-world entities, for example, object, classes, abstraction, inheritance, polymorphism, etc.
OOPs (Object-Oriented Programming System)
Object means a real-world entity such as a pen, chair, table, computer, watch, etc. Object-Oriented Programming is a methodology or paradigm to design a program using classes and objects. It simplifies software development and maintenance by providing some concepts:
Object
Class
AD
Free ChatGP Extension
ChatGPT Browser Plugin as your AI assistant on any page
Extension
ChatGPT Browser Plugin as your AI assistant on any page

Summarization of content from different websites



Extension Interface

Ablation Study

Models	Bleu	Rouge	METEOR	BERT	Word Mover's Distance	Self-Bleu	Perplexity vp8-=/
MPT(MosaicML_84kTokens)	0.38	0.36	0.22	0.51	0.46	0.30	80
FLAN-T5	0.43	0.38	0.25	0.55	0.50	0.26	76
philschmid/bart-large-cnn-samsum	0.42	0.35	0.26	0.49	0.48	0.29	79
Hugchat	0.46	0.41	0.31	0.60	0.52	0.34	68
Falconsai/text_summarization	0.39	0.32	0.25	0.52	0.44	0.29	84
ARTeLab/it5-summarization-mlsum	0.40	0.37	0.29	0.54	0.47	0.28	77

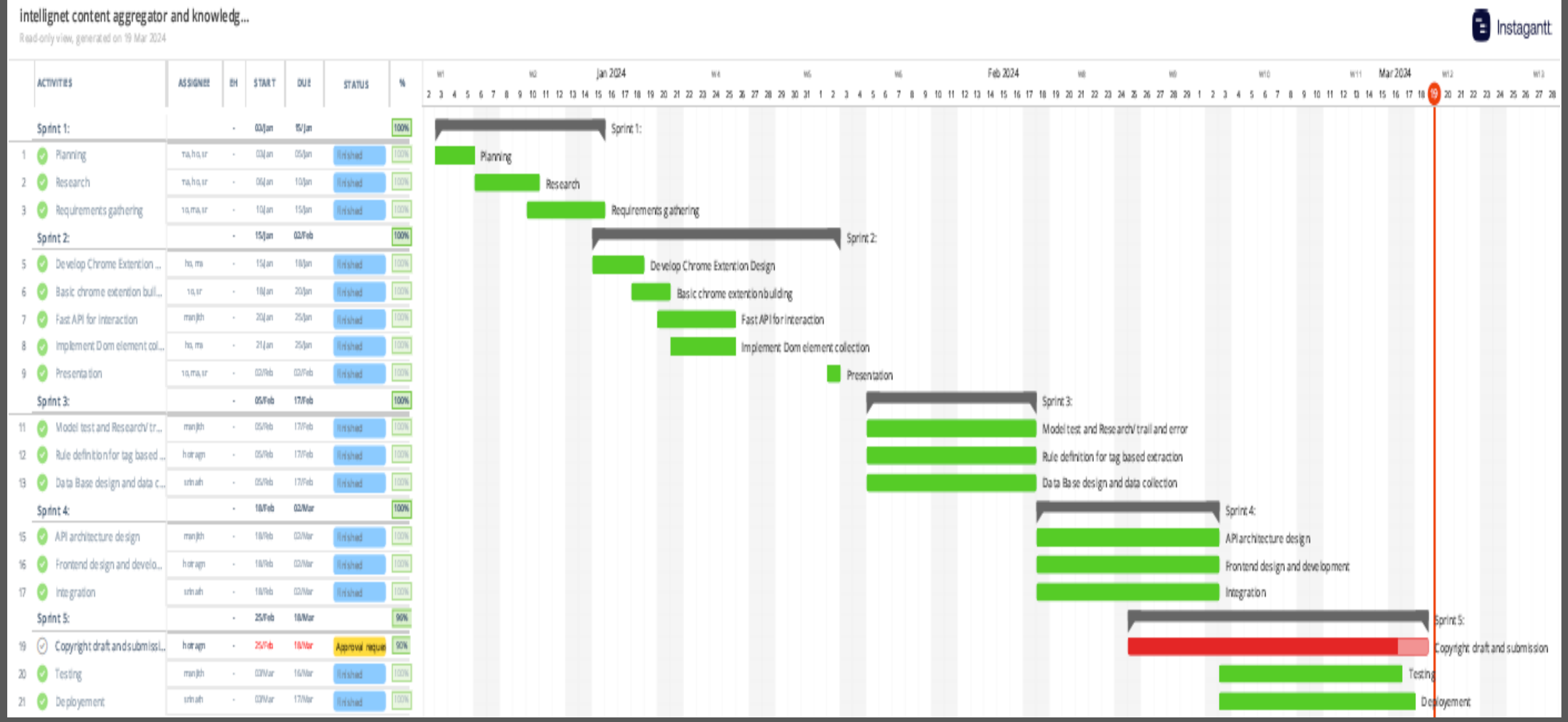
Hugging Face

- Hugging Face's includes varied pre-trained models such as BART and T5, preparing to different summarization needs across various content types found in active tabs.
- Models on Hugging Face are finely-tuned and consistently achieve top scores across evaluation metrics like BLEU, ROUGE, and METEOR, ensuring the generation of accurate and informative summaries for users.
- Our extension can tailor the summarization process to suit different types of content, ensuring that summaries extracted from active tabs are relevant and comprehensive.

Expected Outcomes

- Copy right registration
- Chrome Extension
- Platform for management of researched content

Gantt Chart


intellignet content aggregator and knowledg...
Read-only view, generated on 19 Mar 2024
Instagantt
ACTIVITIES
ASSIGNEE
EH
START
DUE
STATUS
%
Jan 2024
Feb 2024
Mar 2024
Sprint 1:
Planning
Research
Requirements gathering
Sprint 2:
Develop Chrome Extention Design
Basic chrome extention building
Fast API for interaction
Implement Dom element collection
Presentation
Sprint 3:
Model test and Research/ trail and error
Rule definition for tag based extraction
Data Base design and data collection
Sprint 4:
API architecture design
Frontend design and development
Integration
Sprint 5:
Copyright draft and submission
Testing
Deployement

References

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[2] https://maxai.me/

[3] https://chromewebstore.google.com/detail/webchatgpt-chatgpt-with-i/lpfemeioodjbpieminkklglpmhlngfcn

[4] https://chrome.google.com/webstore/detail/copyfish-%F0%9F%90%9F-free-ocr-soft/eenjdnjldapjajjofmldgmkjaienebbj

[5] https://huggingface.co/mosaicml/mpt-7b

[6] https://huggingface.co/philschmid/bart-large-cnn-samsum

[7] https://huggingface.co/chat/

[8] https://huggingface.co/Falconsai/text_summarization

[9] https://huggingface.co/ARTeLab/it5-summarization-mlsum

Thank You