

## Final Report

**GitHub Repository:** <https://github.com/MaulikMann/COSC-4P02.git>

**Website:** <https://cosc4p02.tpgc.me>

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### Updated Release Planning Document

#### **Sprint 1: January 29-February 14:**

- A) As a user, I want to access the deployed website to explore its features and functionalities.

Tasks:

- 1) Set up a server/backend
- 2) Deploy the website

- B) As a user, I want an intuitive and visually appealing UI for the webpages to enhance my browsing experience.

Tasks:

- 1) Write the html/css/javascript for the necessary webpages for the site

- C) As a user, I want to utilize a URL shortener feature to easily shorten long URLs for sharing purposes.

Tasks:

- 1) Write the javascript for the url shortener and run it locally
- 2) Use an SQL database to save the shortened history

- D) As a user, I want to be able summarize content like text and videos and make it concise for better readability by leveraging an LLM to do it for me.

Tasks:

- 1) Choose an LLM to use for the summarizer
- 2) Configure the LLM for summarization of text and video

## **Sprint 2: February 14- February 27:**

- A) As a Pro user, I want to be able to log in to the website using my Google account or other accounts to access the pro features.

Tasks:

- 1) Use the Firebase API to implement the authentication and log in
- 2) Use Firebase API to use Google, Twitter/X, Github and Yahoo as the authentication accounts

- B) As a pro user, I want access to a dedicated dashboard with advanced features and functionalities.

Tasks:

- 1) Write the html/css/javascript for the Dashboard and place the dashboard on the side of the Web Summarizer and URL Shortener pages.

- C) As a user, I want the website to incorporate the web summarizer so that I can just provide a link to the website and retrieve the summary without having to do any technical work

Tasks:

- 1) incorporate the web summarizer into the site

- D) As a user, I want the website to incorporate the URL Shortener so that I can just provide a link to the website and retrieve the shortened URL without having to do any technical work

Tasks:

- 1) incorporate the URL shortener into the site by running it as a Node file in the server

### **Sprint 3: February 27-March 12**

- A) As a pro user, I want access to a dashboard where I can view my summarization and URL shortening history.

Tasks:

- 1) Connect the URL shortener and URL shortener SQL table to the dashboard for the history
- 2) Connect the Web Summarizer and Web Summarizer SQL tables to the dashboard for the history

- B) As a pro user, I want the ability to adjust summarization settings to tailor summaries according to my preferences.

Tasks:

- 1) Configure the Web Summarizer/LLM to give the ability to adjust the word count of the summary

### **Sprint 4: March 12- March 26**

- A) As a user, I want the option to switch to a dark theme for the website to reduce eye strain, especially during nighttime browsing.

Tasks:

- 1) Write the html/css/javascript for the Dark theme and implement it across the site

- B) As a user, I want the web summarization feature to include text-to-speech functionality, allowing me to listen to summaries instead of reading them.

Tasks:

- 1) Write the html/css/javascript for the text-to-speech

## User/Technical Manual:

Step 1: Open your browser to the home page at <https://cosc4p02.tpgc.me/>

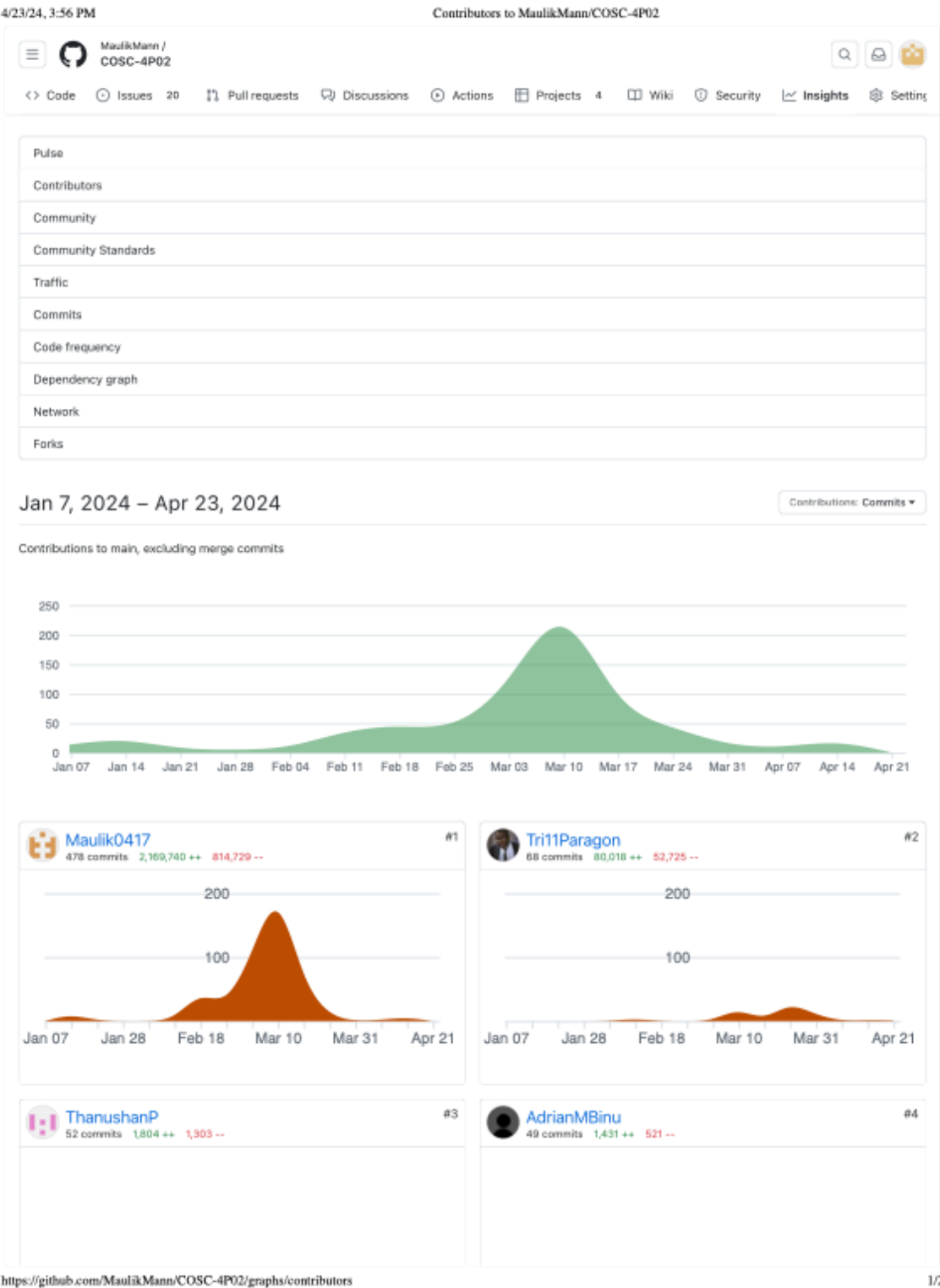
Step 2: From here, use the nav bar to go to the Summarizer Page, URL Shortener page, Login Page, or switch to dark mode

- Dark Mode Toggle:
  - Flipping the switch changes the entire website between light and dark mode
- Login Page:
  - This page informs the user about the difference between the pro and basic versions, as well as providing users with 4 different methods of logging in
    - This includes Google, Github, Twitter, Yahoo
    - By using anyone of the login methods, the user will be redirected to the corresponding login method's login page
  - After logging in through one of the 4 methods, the user will be redirected to the home page and have access to all the pro features
  - If logged in:
    - The login button in the nav bar becomes a signout
      - When a user presses the signout button, the user gets redirected to the signout page and must press the red signout button to confirm their decision
      - At this point the user gets redirected to the home page and lose access to pro features
- Summarizer Page:
  - Enter a URL link to a video or web page, and press enter
  - The Summarizer takes a bit of time, but it is processing in the background
  - Eventually, the results box will update with the summarized webpage/video
  - After the summarization, you can use text-to-speech to listen to the result, or copy the result with the copy button
  - If logged in:
    - There will be a dashboard on the left side of the screen, that shows previously saved summarizations, and the settings that were used
      - By pressing on one of the saved summarizations, it'll display that input link in the input box, the initially used settings in

the settings boxes, and previously saved summary in the result box

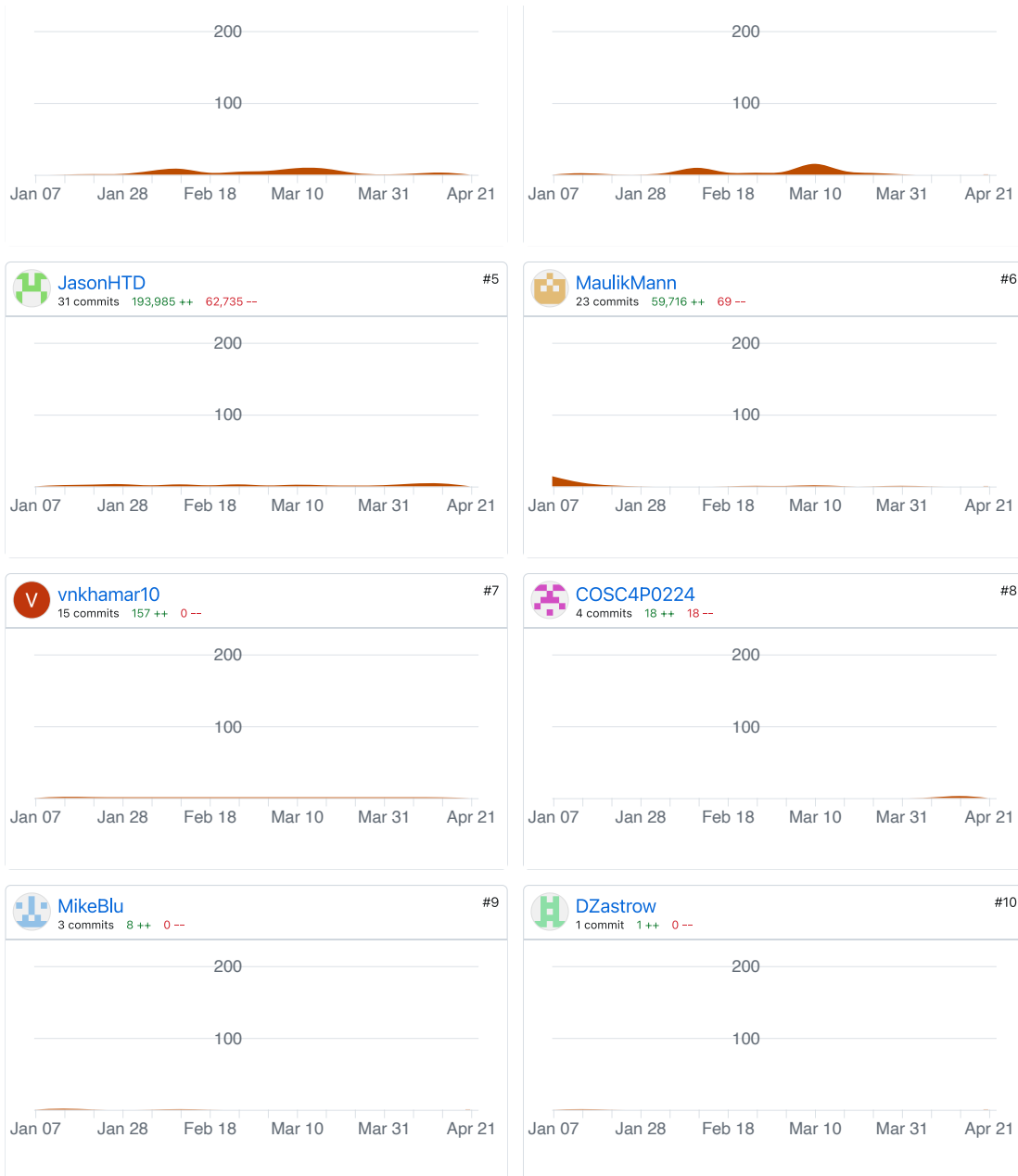
- There are settings that users can use: character count
  - The first box to the left is the character count input
    - By default, the character count is set to 300, but users can change it to any number
- URL Shortener Page
  - Enter any URL link make sure it begins with “https://”, and press enter
  - The shortened link will pop up below the input bar
  - If logged in:
    - There will be a dashboard on the left side of the screen, that shows the specific user’s history of shortened URLs and the number of times the shortened URL has been used. [ To update the dashboard, refresh the page.]

Github Logs:



4/23/24, 3:56 PM

# Contributors to MaulikMann/COSC-4P02



Code frequency over the history of **MaulikMann/COSC-4P02**

