Progress Report #1

https://cosc4p02.tpgc.me/

Members:

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Jason Hunter	6744247	jh19pp@brocku.ca
Brett Terpstra	6920201	bt19ex@brocku.ca

PROJECT NAME	Web Summarizer and URL Shortener
PROJECT MANAGER	Maulik
SCRUM MASTER	Vishant

START DATE	END DATE	OVERALL PROGRESS
01-29	04-28	≈35%

TASK NAME	FEATURE TYPE	RESPONSIBLE	START	FINISH	DURATION in days	STATUS	COMMENTS
SPRINT 1			01-29	02-14	17		
Deploy Website		Brett and Michael	01-29	02-14	17	Complete	
Create URL Shortener		Maulik	01-29	02-14	17	Complete	URL shortener created, adding to website pending
Use LLM to summarize		Brett, Michael, Deevan, Vishant	01-29	02-14	17	In Progress	LLM is currently being trained and adjusted, accuracy of the summarization provided by the LLM is a challenge
Create UI		Jason, Adrian, Thanushan	01-29	02-14	17	Complete	
SPRINT 2			02-14	02-27	14		
Log in with Google		Maulik	02-14	02-27	14	Complete	
Pro User Dashboard		Jason, Adrian, Thanushan	02-14	02-27	14	In Progress	
Incorporate Web Summarizer into site		Brett, Michael, Deevan, Vishant	02-14	02-27	14	In Progress	
Incorporate URL shortener into site		Maulik	02-14	02-27	14	In Progress	Difficulty with implementing the url redirection on site
SPRINT 3			02-27	03-12	15		
Pro Features: Summarization/Url Shortener history, etc.		Jason, Adrian, Thanushan, Maulik	02-27	03-12	15	Not Started	
Pro feature: Summarization Adjustment		Brett, Michael, Deevan, Vishant	02-27	03-12	15	Not Started	
SPRINT 4			03-12	03-26	15		

Implementation of SE Process:
Our SE Process is Scrum. We hold weekly scrum meetings to review and demonstrate what we have done in the last week. Everyone shows their progress and discusses any challenges they are facing. We are using the release planning document as our backlog and to set deliverables.

Detail of system:

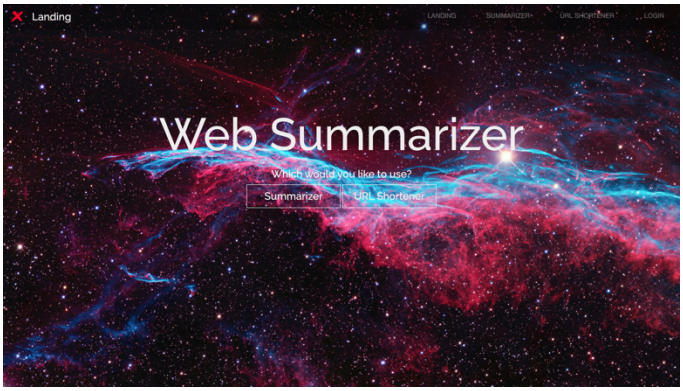
It is a website with pages for the different functionalities and features. Pro features are hidden until the user signs in with Google.

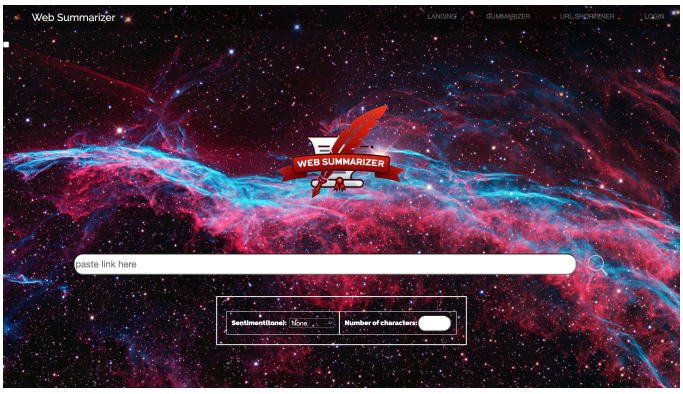
Web Team Log:

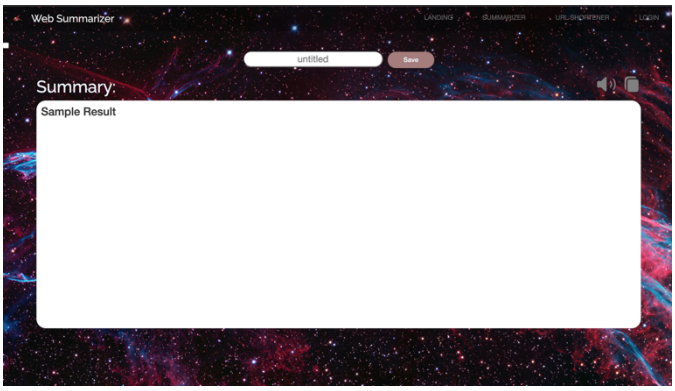
Challenges:
- UI: Splitting and distributing the work, while trying to make a seamless website that is consistent throughout

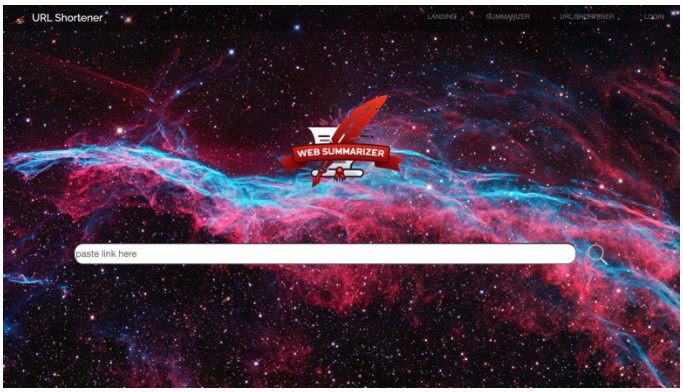
- URL Shortener: Integrating the URL shortener into the website and having the shortened urls redirect the user to the actual site

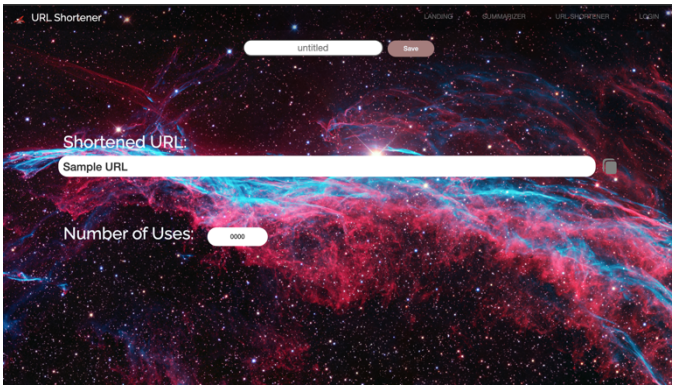
Screenshots:

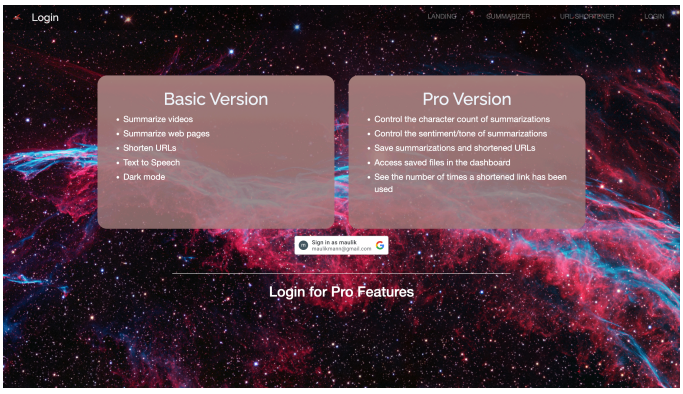





Web Summarizer
LANDING
SUMMARIZER
URL SHORTENER
LOGIN
untitled
Save
Summary:
Sample Result


URL Shortener
LANDING
SUMMARIZER
URL SHORTENER
LOGIN
WEB SUMMARIZER
paste link here


URL Shortener
LANDING
SUMMARIZER
URL SHORTENER
LOGIN
untitled
Save
Shortened URL:
Sample URL
Number of Uses:
0000

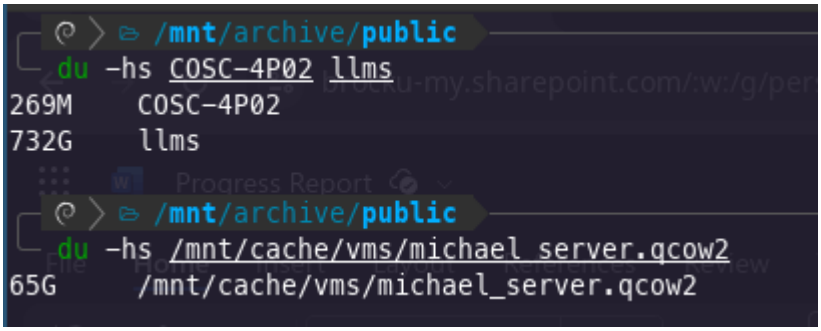

Login
LANDING
SUMMARIZER
URL SHORTENER
LOGIN
Basic Version
• Summarize videos
• Summarize web pages
• Shorten URLs
• Text to Speech
• Dark mode
Pro Version
• Control the character count of summarizations
• Control the sentiment/tone of summarizations
• Save summarizations and shortened URLs
• Access saved files in the dashboard
• See the number of times a shortened link has been used
Sign in as maulik
maulikmans@gmail.com
Login for Pro Features

LLM Team Log:

The majority of the LLM (large language model) team's development has occurred on our private server, which is not visible on the GitHub (DNS + DDNS config, reverse proxy setup, hypervisor + VM config, LLM weights, etc). Some efforts are being made to cause our work to be more visible, such as supplying the docker run script. However, as much of the initial LLM setup involves configuring the underlying host this is not always possible. More elements will be added to the GitHub over the course of the next sprint.

Challanges:

- The large storage requirements of the LLM weights



- High memory and CPU usage of the LLM

- Slow generation / response time of the LLM due to lack of specialized hardware

(1 minute 16 seconds on a small prompt.)

- Resource constraints mean we must use the smallest Llama which suffers from accuracy and generation issues.
- Ensuring a balance between the accuracy and speed of the LLM, requiring both prompt engineering an understanding of the underlying Llama model

Brett / System Administrator's Note:

Access to the underlying host which manages the shared VM and executes the LLM will not be granted to anyone under any circumstances. Access to the cosc4p02 VM can be granted to anyone involved in the project, including stakeholders (the TA), but I am unwilling to compromise the security of my hardware.

GitHub contribution log:

(Next page)

MaulikMann / COSC-4P02

Code Issues 20 Pull requests Discussions Actions Projects 4 Wiki Security Insights

- Pulse
- Contributors
- Community
- Community Standards
- Traffic
- Commits
- Code frequency
- Dependency graph
- Network
- Forks

Jan 7, 2024 – Feb 20, 2024

Contributions: Commits

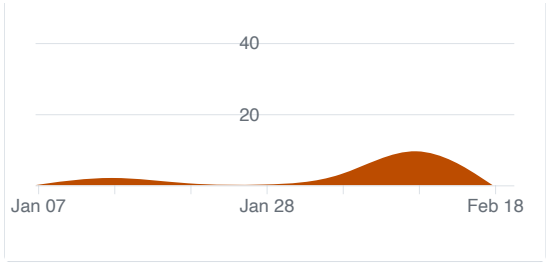
Contributions to main, excluding merge commits

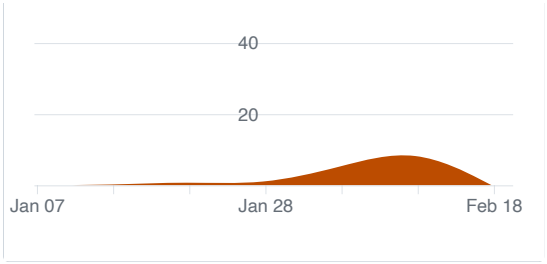
#1 Maulik0417
61 commits 1,029,924 ++ 806,725 --

#2 MaulikMann
19 commits 59,714 ++ 68 --

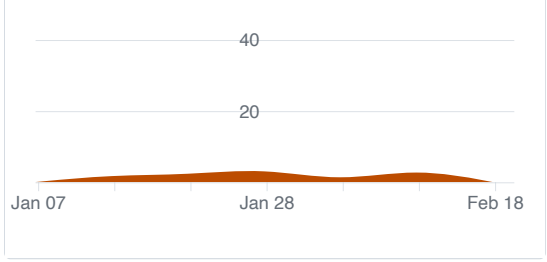
#3 AdrianMBinu
18 commits 823 ++ 396 --

#4 ThanushanP
17 commits 1,090 ++ 838 --

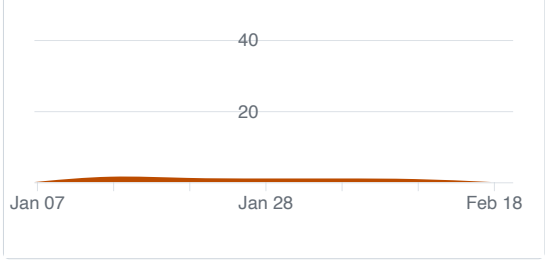




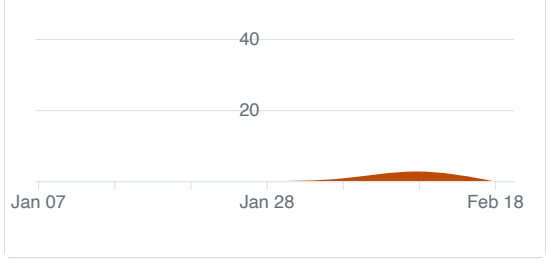
JasonHTD #5
12 commits 186,271 ++ 59,708 --



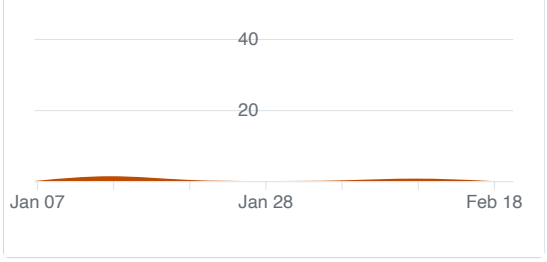
vnkhamar10 #6
6 commits 50 ++ 0 --



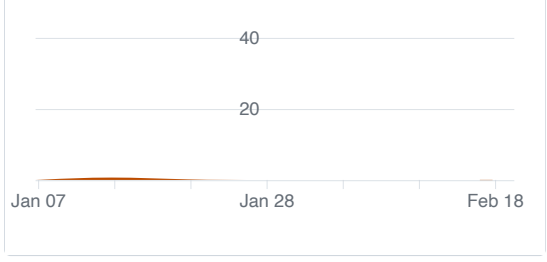
Tri11Paragon #7
4 commits 29 ++ 3 --



MikeBlu #8
3 commits 8 ++ 0 --



DZastrow #9
1 commit 1 ++ 0 --



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