Release Planning

Web Summarizer and Shortener

COSC 4P02
January 16th, 2024
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Introduction

We are developing an online Web Summarizer tool capable of summarizing web pages, YouTube videos, and any other provided textual content. The tool will easily process webpage or YouTube video links, delivering users a succinct summarization. Users can also directly paste the content they wish to summarize. The summarization process will leverage Natural Language Processing (NLP) and Large Language Models (LLMs) to generate the summaries. This integration will be facilitated through APIs designed for summarizing both text and video content.

The Web Summarizer will offer pro features, including social media integration. This allows users to log in, save progress with their accounts, and share on their preferred social media platforms. Additionally, pro users will benefit from a dedicated dashboard to manage their accounts and API access, enabling seamless integration into their individual workflows.

Main Features

1. Summarization
    a. Summarization given text
    b. Summarization given a URL
    c. Summarization given a URL to a YouTube video
2. Link Shortening
    a. Standard Link Shortening
    b. (Pro) Analytics on Shortened Link
3. Custom Summarization
    a. Ability to decide the length/detail level; words, paragraphs, etc.
    b. Ability to format the output; bullet points, informal/formal, etc.
    c. Ability to save custom summarization levels for later.
4. API Access
    a. Ability to provide all website services via an API
5. Social Media Integration
    a. Authentication with an external service (Google, Facebook)
    b. Manual account creation (email address, username)
    c. Share summarization output to social medium of your choice
6. User Dashboard
    a. View and change account/profile settings
    b. UI for pro feature usage
    c. View/edit previous outputs (history)
7. Miscellaneous Features
    a. Change website appearance
    b. Copy and edit output

Project Management Tools

Our project will be managed seamlessly using a combination of Jira and GitHub. Jira, with its powerful project tracking and management capabilities, will serve as the central hub for overseeing product and sprint backlogs. Leveraging its integration with GitHub, we will maintain a synchronized and efficient development process. GitHub, renowned for its version control and collaborative features, will be the repository of choice for code management, ensuring a smooth and well-coordinated workflow throughout the project lifecycle. This integration of Jira and GitHub aligns with our commitment to streamlined project management and successful project delivery.

User Stories

Story	Description	Category	Status
SCRUM-1	As a user, I want to be able to input a website URL so that I can receive a summary of the content.	STANDARD SUMMARIZA'	TO DO
SCRUM-2	As a user, I want to enter the URL for a Youtube video, so that I can receive summary of the video.	STANDARD SUMMARIZA'	TO DO
SCRUM-3	As a user, I want to input some text so that I can receive a summary of the content.	STANDARD SUMMARIZA'	TO DO
SCRUM-10	As a user, I want to copy or export the summarized text so that I can save the text into my working space.	STANDARD SUMMARIZA'	TO DO
SCRUM-11	As a pro user, I want the ability to reset my password so that I have an alternative in case I forget it.	USER DASHBOARD	TO DO
SCRUM-12	As a pro user, I want the ability to change my profile settings (username, email) so that I have account management flexibility.	USER DASHBOARD	TO DO
SCRUM-13	As a pro user, I want to specify the word count for the output text so that the summarized text meets my requirements.	CUSTOM SUMMARIZATI(	TO DO
SCRUM-14	As a pro user, I want the summary to be formatted using bullet points, paragraphs and alternative font styles so that it is easi...	CUSTOM SUMMARIZATI(	TO DO
SCRUM-15	As a pro user, I want to receive a token so that I can access the tool's API.	API ACCESS	TO DO
SCRUM-16	As a pro user, I want to view my tool's history so that I can access previous queries.	USER DASHBOARD	TO DO
SCRUM-17	As a pro user, I want to log in to or log out of the tool so that I can access personalized (pro) features	USER DASHBOARD	TO DO
SCRUM-18	As a pro user, I want the tool to save my custom summarization levels as templates so that I can use the same personalizatio...	CUSTOM SUMMARIZATI(	TO DO
SCRUM-19	As a user, I want to shorten the URL that I provided so that is easier to use and share.	URL SHORTENING	TO DO
SCRUM-20	As a pro user, I want to include in-text references and citations in the output text, so that I can include all sources in my resea...	CUSTOM SUMMARIZATI(	TO DO
SCRUM-21	As a pro user, I want to choose the tone of language used in the output text between formal or informal, so that it suits my need...	CUSTOM SUMMARIZAT...	TO DO
SCRUM-22	As a pro user, I want to log in to the tool using my Facebook account so that I don't have to use my email manually to create an ...	SOCIAL MEDIA AUTHE...	TO DO
SCRUM-23	As a pro user, I want to log in to the tool using my Google account so that I don't have to use my email manually to create an ac...	SOCIAL MEDIA AUTHE...	TO DO
SCRUM-24	As a pro user, I want to be able to create an account with my email so that I can use the various pro-user features available.	USER DASHBOARD	TO DO
SCRUM-26	As a pro user, I want to change to a dark mode so that the dashboard matches my aesthetic preferences.	USER DASHBOARD	TO DO
SCRUM-27	As a pro user, I want to be able to edit, or delete my tool's history for privacy reasons.	USER DASHBOARD	TO DO
SCRUM-28	As a pro user, I want to be able to delete my account so that all my data is deleted.	USER DASHBOARD	TO DO
SCRUM-58	As a user, I want to be able to give feedback on the summarization output so that the tool can be improved upon.	STANDARD SUMMARIZ...	TO DO
SCRUM-59	As a user, I want to be able to edit the summarization output so that I can adjust the output to my requirements.	STANDARD SUMMARIZ...	TO DO
SCRUM-60	As a pro user, I want to see the activity (how many times clicked) on the shortened link that I created.	CUSTOM SUMMARIZAT...	TO DO
SCRUM-120	As a pro user, I want to share the summarized text on Twitter or Facebook so that I can share the content on my preferred socia...	CUSTOM SUMMARIZAT...	TO DO

Product Backlog: Tasks

☑ SCRUM-61 Add functionality to input a website URL to get a summary of the content.

☑ SCRUM-62 Add functionality to input some text and get a summary of the content.

☑ SCRUM-63 Add functionality to input a video URL for a Youtube video to get a summary of the video content.

☑ SCRUM-64 Add copy and export functions for the summarized text

☑ SCRUM-71 Create a word count input to allow custom text summarization

☑ SCRUM-72 Create a functionality to allow users to input specifications for text formatting

☑ SCRUM-77 Allow users to input a URL and get a shortened URL

☑ SCRUM-83 Create a button to switch between dark and light mode

☑ SCRUM-86 Create an interactive interface to use tool's functionalities

☑ SCRUM-87 Add a feedback feature and collect user feedback

☑ SCRUM-90 Add an option to sample pro features

☑ SCRUM-91 Add functionality to edit summarized output

☑ SCRUM-92 Add functionality to generate the summary with a new input

☑ SCRUM-93 Track user activity

☑ SCRUM-94 Track how many times shortened link created by user is used/clicked on

- [x] SCRUM-99 Create GUIs for both the user dashboard and custom summarization
- [x] SCRUM-69 Create a password reset functionality
- [x] SCRUM-70 Add a functionality to change username/email
- [x] SCRUM-73 Allow access to API using a token
- [x] SCRUM-74 Add a history section to view previous queries
- [x] SCRUM-75 Add a log in and log out functionality
- [x] SCRUM-76 Add a functionality to save custom summarization levels used
- [x] SCRUM-78 Add a functionality to return summarized texts with citations
- [x] SCRUM-79 Create a functionality to choose between informal or formal summarized text output
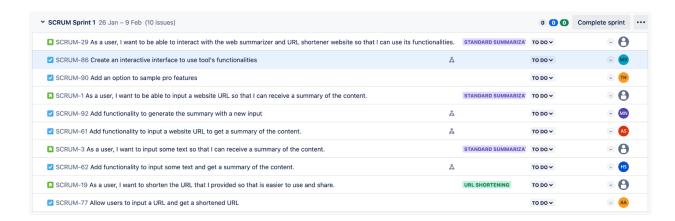- [x] SCRUM-80 Add functionality to "Log in with Facebook"
- [x] SCRUM-81 Add functionality to "Log in with Google"
- [x] SCRUM-82 Create a log in with email option
- [x] SCRUM-84 Add functionality to edit and delete user history
- [x] SCRUM-85 Add a feature to delete account
- [x] SCRUM-97 Allow users to input specific timestamps of a video input for summarization

Sprint Backlog

Roles

Name	Primary Role
Tanvir Hasan	Full Stack Developer
Muhammed Bilal	Full Stack Developer
Hamza Sidat	Full Stack Developer
Marium Nur	Back End Developer/ Graphic Designer
Anjali Sabu	Front End Developer
Abdul-Maalik Siddiqui	Back End Developer
Amani Anderson	Back End Developer/ Database Administrator

GitHub Link: Attested-paper51/COSC-4P02-Web-Summarizer (github.com)