Release Planning Document

COSC 4P02 – Software Engineering 2 (Winter 2024)

Professor- Naser Ezzati-Jivan

January 26th, 2024

Project Title: Social Media Post Generator

GitHub: https://github.com/mc16dn/COSC-4P02-Group-Assignment/tree/main

Project Members

Name	Role	ID	Brock Email	GitHub Username
Basel Abdel Hafez	Product Owner	6826853	ba19tw@brocku.ca	Hafezberg
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Maisam Anjum	Developer 3	6804298	ma19an@brocku.ca	Koorikdat

Project Management Tools

Miro was used as a collaboration tool by our management and development teams during meetings to build user stories. With these user stories, we developed the product backlog items and two sprints. We will use Jira to manage our product and sprint backlogs because it integrates with GitHub. We'll utilize readme.so to keep the readme file updated.

Brief Discussion

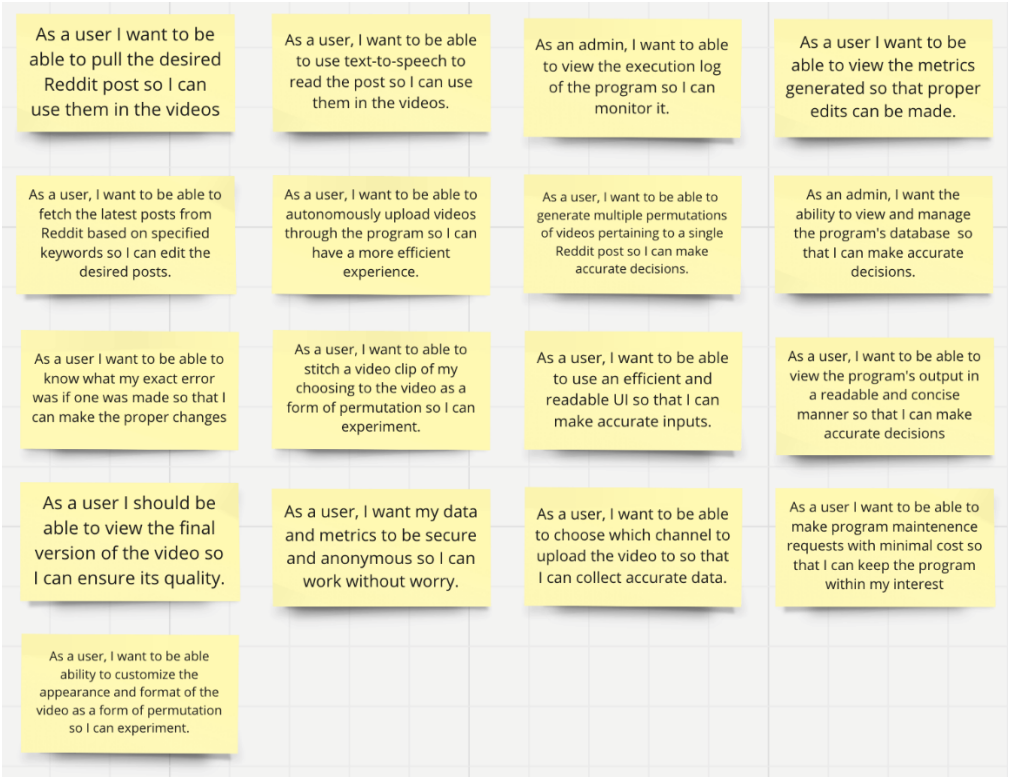
One of our concerns of this project's implementation is the decision tree and how we will go about implementing it. There are many decisions yet to be made but we predict this to be the most difficult aspect. Furthermore, getting the program to interface with more forms of social media, should we choose to do so, will also prove to be challenging. The GUI's layout will also likely be difficult to implement due to our lack of experience in developing user-friendly programs. We are, in general, very used to simply making a program that satisfies our assignments with little regard for usability, and this change in mindset might prove to be our biggest obstacle. We are, however, very excited to take this on and gain some true experience on program development. Both for our resumes and future experiences.

Product & Sprint Backlogs

User Epic

We would like to request a social media post generation program. It must be able to pull a post from Reddit and upload different permutations of a video reading out these posts via text-to-speech, they must be autonomously uploaded after receiving the user's desired permutation. For accurate comparison, we would like multiple channels with an independent environment for experimentation, these channels will upload different permutations of the pulled Reddit post. We need the program to be maintainable in a cost-efficient manner for future updates. These permutations could include audio, a gameplay clip in the bottom half, or a clip from a popular show or the like. We need the program to output reliable and accurate results based on user metrics collected from the channels. The metrics collected must include watch time, total clicks, total views, and total shares. It must be resistant to data leaks of both the user's information and the collected metrics. A user interface must be present, and it must be able accept the input of the chosen permutations, the interface must also be usable, reliable, and the program must be able to output its results to this interface in a concise and readable manner. Lastly, we require easy access to the videos posted and data pertaining to these videos.

User Stories



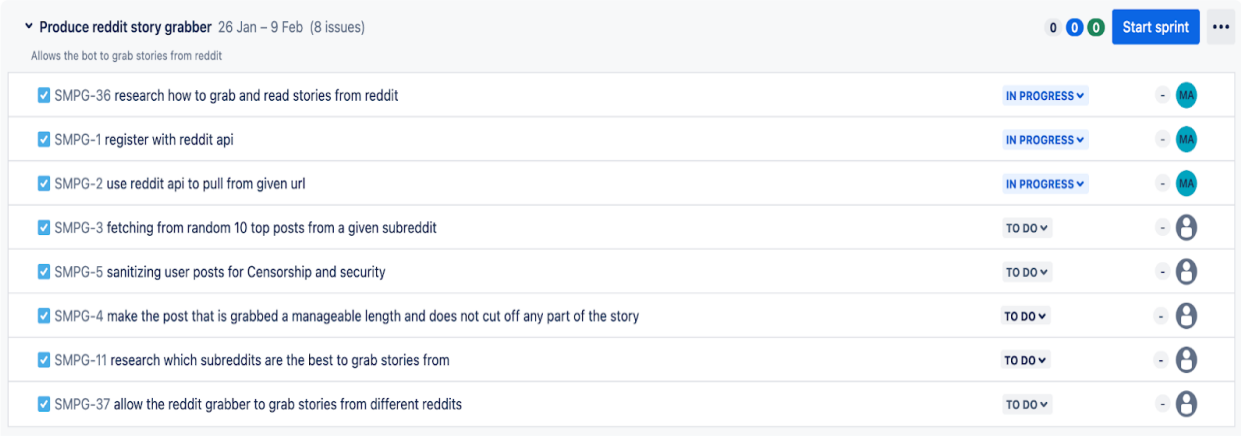
Product Backlog

The product backlog is a dynamic and prioritized list of features, improvements, bug patches, and other tasks that must be completed in a product. It functions as a comprehensive and ongoing library of tasks that the development team may work on in future iterations or versions of a software product. The product backlog is a key artifact in agile approaches, notably Scrum.

SMPG-6 producing 18 video templates	TO DO	-
SMPG-7 grabbing data from posted video	TO DO	-
SMPG-9 grab video metrics from a given channel (watch time , total clocks, total view and total shares)	TO DO	-
SMPG-35 Test that the metrics given returned from the video are sound and accurate	TO DO	-
SMPG-8 Producing a decision tree to decide which video did the best by some given metric	TO DO	-
SMPG-12 produce a method for the bot to upload to multiple different social platforms	TO DO	-
SMPG-26 combine the video with the test from reddit and the voice to produce content that can be uploaded	TO DO	-
SMPG-27 produce a server so that the bot can run for testing purposes	TO DO	-
SMPG-14 make a user interface	TO DO	-
SMPG-22 allow the user to upload video files to the user interface and work with the bot	TO DO	-
SMPG-23 allow user to change voice with GUI	TO DO	-
SMPG-24 allow user to change where they grab the reddit score	TO DO	-
SMPG-25 allow user to manage the bot for a individual platform that will effect the other platforms that the bot is connected with	TO DO	-
SMPG-28 test that the created content is sufficient for the users needs	TO DO	-
SMPG-29 test that it works with different OS's	TO DO	-
SMPG-30 Test test decision tree	TO DO	-
SMPG-31 create database for video and metrics	TO DO	-
SMPG-32 show video on gui	TO DO	-
SMPG-33 show metrics of the video beside the GUI	TO DO	-
SMPG-34 ensure that security is sound and that there are no data leaks	TO DO	-

First Sprint Backlog

Within the first sprint we want to set up the foundation of the project. This means that we need to put together all the initial components such that assembling them together moves smoothly. The building blocks involve researching technologies to see what is most effective and incorporating them at a basic level. The reddit API is integral to our project, and it serves as the base input, so by prioritizing that, we can move forward ensuring our project is viable, and this is also required for all future steps as it wouldn't be possible to integrate a voice bot, or video development pipeline without this starting point.



Second Sprint Backlog

Contributions

Basel:

- Created User epic.
- Contributed to user stories.
- Collected the team's thoughts.
- Contributed to the Release Planning doc editing.

Rifat:

- Contributed to user stories,
- Formatting the Release Planning doc
- Managing Miro
- Updating readme file
- Assisting Basel with User Epic decisions.

Hevar:

- Made the final product and sprint backlog decisions.
- Communicated with Basel to ensure accuracy in the report.
- Contributed to the research material that needs to be looked on to ensure the success of the project.

Matthew, Raymond, and Maisum:

- Assisted Hevar with research.
- Assisted with making decisions regarding the program's implementation.
- Assisted in discussing the risk management of the project.

Meetings: We decided on a biweekly sprint and a meeting before, after, and in the middle of each sprint.
