COSC 4P02 Software Engineering 2

January 14th, 2024

Web Summarizer and Shortener Project Proposal

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Project Idea:

Web Summarizer and Shortener

Introduction and Overall Description:

Now, as the Internet becomes more and more developed, the information people have access to daily is increasing rapidly. This makes it increasingly difficult for people to read and understand lengthy articles and news in a limited time. Advanced Internet users are beginning to pursue shorter and more effective information, which makes software like Web Summarizer and Shortener useful. This is also the reason why our group decided to choose this project theme.

The same goes for videos, we know that some videos are very long but do not have enough useful information. Also, according to the requirements of the project outline, Web Summarizer and Shortener must not only be able to summarize and streamline the web page input by the user but also summarize and shorten the content of a YouTube video. This is a very complex problem and made the project challenging for our team. This means we must use some AI or large language model (LLM) to achieve it. My team members and I are confident in this because our goal is not only to achieve the requirements set out in the project outline but to design and complete a truly user-friendly Web Summarizer and Shortener, which will be important for our future Studying and working are also very rewarding.

Team List:

Name	Brock ID	Email Address	Role(s)
Xiaobin Liu	6246789	xl17gl@brocku.ca	Scrum Master, developer team
Di Wu	6345912	dw17kf@brocku.ca	developer team
Daniel Yang	6937601	dy19hh@brocku.ca	developer team
Yuchen Ding	6677967	yd18jd@brocku.ca	developer team
William Li	6471254	wl18sc@brocku.ca	Product owner, develop team
Yuhao Cao	6594899	yc18do@brocku.ca	developer team

Software Engineering Method:

Based on the team discussion, we decided to use the "Scrum" method to manage our project. Furthermore, we decided to use JAVA as the coding language and IntelliJ IDEA as the compiler of our project.

GitHub Page:

Here is our GitHub page:
https://github.com/MTKdesu/Web-Summarizer-and-Shortener

Project Schedule:

Date	Working on	Output
Week 1 (Jan 8 - Jan 14)	Team setup(Jan 9) First meeting(Jan 12): 1. Project idea - Web Summarizer and Shortener 2. SE method - Scrum 3. Coding language - JAVA 4. Compiler - IntelliJ IDEA 5. Member roles 6. Project proposal	Team list
Week 2 (Jan 15 - Jan 21) First week of Sprint 1	Sprint Planning Meeting: 1. Create user stories 2. Analyze the product backlog and break it down into some sprint backlogs 3. Start searching for technologies and tools we need	Project proposal(Jan 16)
Week 3 (Jan 22 - Jan 28) Second week of Sprint 1	Daily Scrum Meeting (from 9:30 AM to 10:20 AM). Create a planning document. Start searching for the first feature - Short Link Creation.	Planning document(Jan 26)

Week 4 (Jan 29 - Feb 4) First week of Sprint 2	Sprint Retrospective/Review Meeting - to look back what our team has done in this sprint and figure out what we need to do in the next sprint. Daily Scrum Meeting (from 9:30 AM to 10:20 AM). Start building the first feature - Short Link Creation.	
Week 5 (Feb 5 - Feb 11) Second week of Sprint 2	Daily Scrum Meeting (from 9:30 AM to 10:20 AM). Testing for the first feature - Short Link Creation.	first feature - Short Link Creation.
Week 6 (Feb 12 - Feb 18) First week of Sprint 3	Sprint Retrospective/Review Meeting. Daily Scrum Meeting (from 9:30 AM to 10:20 AM). Start searching for the second feature - Custom Summarization Levels (pro-feature).	
Week 7 (Feb 19 - Feb 25) Second week of Sprint 3	Daily Scrum Meeting (from 9:30 AM to 10:20 AM). Start building for the second feature - Custom Summarization Levels (pro-feature). Testing for the second feature.	second feature - Custom Summarization Levels (pro-feature).
Week 8 (Feb 26 - Mar 3) First week of Sprint 4	Sprint Retrospective/Review Meeting. Daily Scrum Meeting (from 9:30 AM to 10:20 AM). Start searching for the third feature - Social Media Integration through Google and FB authentication (pro-feature). Progress report meeting 1 (with TA). Create Progress Report 1.	Progress report 1

Week 9 (Mar 4 - Mar 10) Second week of Sprint 4	Daily Scrum Meeting (from 9:30 AM to 10:20 AM). Start building for the third feature - Social Media Integration through Google and FB authentication (pro-feature). Testing for the third feature.	third feature - Social Media Integration through Google and FB authentication (pro-feature).
Week 10 (Mar 11 - Mar 17) First week of Sprint 5	Sprint Retrospective/Review Meeting. Daily Scrum Meeting (from 9:30 AM to 10:20 AM). Start searching for the fourth feature - API Access (pro-feature).	
Week 11 (Mar 18 - Mar 24) Second week of Sprint 5	Daily Scrum Meeting (from 9:30 AM to 10:20 AM). Start building for the fourth feature - API Access (pro-feature). Progress report meeting 2 (with TA). Create Progress Report 2.	Progress report 2
Week 12 (Mar 25 - Mar 31) First week of Sprint 6	Testing for the fourth feature(delay because of Progress Report 2 and meeting 2). Sprint Retrospective/Review Meeting. Daily Scrum Meeting (from 9:30 AM to 10:20 AM). Start searching for the fifth feature - User Dashboard (pro-feature) for registered users to track their activity, manage links, and customize settings.	fourth feature - API Access (pro-feature).

Week 13 (Apr 1 - Apr 7) Second week of Sprint 6	Daily Scrum Meeting (from 9:30 AM to 10:20 AM). Start building for the fifth feature - User Dashboard (pro-feature) for registered users to track their activity, manage links, and customize settings. Testing for the fifth feature.	fifth feature - User Dashboard (pro-feature) for registered users to track their activity, manage links, and customize settings.
Week 14 (Apr 8 - Apr 14) First week of Sprint 7	Sprint Retrospective/Review Meeting. Daily Scrum Meeting (from 9:30 AM to 10:20 AM). Start searching for the sixth feature - Summarization uses NLP or LLMs to summarize the content of a given web URL.	
Week 15 (Apr 15 - Apr 21) Second week of Sprint 7	Daily Scrum Meeting (from 9:30 AM to 10:20 AM). Start building for the sixth feature - Summarization uses NLP or LLMs to summarize the content of a given web URL. Testing for the sixth feature.	sixth feature - Summarization uses NLP or LLMs to summarize the content of a given web URL.
Week 16 (Apr 21- Apr 28) Last week, the end of all sprints	Sprint Retrospective/Review Meeting. Final test for the whole system and all features. Create the final report. Prepare Final Demonstration/Presentation.	Final report and final demonstration/presentation

Attention: Please note that the above dates or times are not final and may change as the project progresses.