

BROWSER BUDDY PROJECT PLAN

SP-17 Browser Plug In

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1. Overview

1.1 Background

In today's world of information overload, people need tools to distill online content quickly into concise, digestible summaries. Our team aims to develop an intuitive browser extension that helps users grasp the key points of a large webpage in seconds.

1.2 Objectives

The following are the team's objectives:

1. Develop a Firefox extension using the WebExtensions API.
2. Integrate machine learning capabilities by interfacing with OpenAI's GPT-4 model via their private API.
3. At the click of a context-menu button, summarize webpages into smaller & more readable paragraphs and bulleted lists.
4. Summaries must be clean, visually appealing, and built for readability and accessibility first.
5. Provide users with customization options such as summary length or text-to-speech.

1.3 Scope

The scope of the project will be as follows:

1. A desktop Firefox extension for MacOS and Windows.
2. Integration with OpenAI's GPT-4 model for robust summarization capability.
3. An intuitive browser pop-up window for summary viewing and controls.
4. Summarization of text-heavy webpage sections

2. Deliverables

2.1 Requirements

- Functional requirements
- Non-functional requirements
- User stories
- Data requirements

2.2 Design Plan

- UI/UX specification
- Interaction flow diagram
- Mockup
- Style guide
- Class specification

2.3 Prototype

- Basic extension with core MVP features
- Demonstration with feedback

2.4 Documentation

- Source code w/ comments
- Testing plans and results
- User manuals
- Final project report

3. Milestones

Milestone	Notes	Due date
Requirements & Design Document	Requirements for the project. Design of the project.	Feb. 13 th
Website summarization achieved	Fetch from openAI's API with a webpage's contents and display a response.	Feb. 24 th
Prototype & Presentation	Extension which has a button that sends webpage data to openAI and relays a response with functioning UI.	Mar. 4 th
Minimum Viable Product	All functional requirements accomplished.	Mar. 31 st
Final Report Draft	Draft of the final report. Will be nearing the final build of the project.	Apr. 6 th
Final Project Package	Compilation of all previous work, including the final product.	Apr. 21 st

4. Scheduled Meetings

Our team is scheduled to have an in-person meeting every Thursday from 2:00pm to 4:30pm. Every other day is intended to be a workday—except for Saturday, which will be a swing-day. This setup for meetings should give us ample time to discuss our progress throughout the previous and upcoming week. Of course, virtual meetings in Teams will be scheduled as required.

5. Gantt

We have planned 194 work hours. This, of course, may be inaccurate, but is appropriate considering the length of time necessary for every listed task.

