



Glimpse

Project Proposal by Group – 2

1. Raman Sharma – 22114076

Contact No: +91 75218 29455

Email ID: raman_s@cs.iitr.ac.in

2. Boda Yashwanth – 22114022

Contact No: +91 89779 25111

Email ID: boda_y@cs.iitr.ac.in

3. Ayush Ranjan – 22114018

Contact No: +91 74829 58551

Email ID: ayush_r@cs.iitr.ac.in

4. Souvik Karmakar – 22114096

Contact No: +91 86429 24659

Email ID: souvik_k@cs.iitr.ac.in

5. Sarvasva Gupta – 22114086

Contact No: +91 79899 04811

Email ID: sarvasva_g@cs.iitr.ac.in

6. Anvit Gupta – 22114009

Contact No: +91 94620 11044

Email ID: anvit_g@cs.iitr.ac.in

7. Vineet Kumar – 22114107

Contact No: +91 92634 36403

Email ID: vineet_k@cs.iitr.ac.in

Project Overview

The project Glimpse is a chrome extension which aims to enhance user productivity, navigation, and search experience. It provides an entirely new user experience by displaying motivational quotes, dynamic to-do list, organized bookmarks and customisable wallpaper on the home page. Also, it provides other useful features like scrollable website preview upon hovering on the link, displaying the estimated reading time, ability to bookmark the website and open the website in full tab as and when the user wishes. There are also additional features like grouping of bookmarks using sentiment analysis for efficient organization of bookmarked links, summary of the content in website and customisable preview size.

Customer

The project Glimpse is useful for the following customers in real-life:

1. **Students and Researchers:** This group often juggles multiple tasks, conducts research, and manages large bookmark lists, making them ideal candidates for the organization and navigation features.
2. **Professionals:** Individuals working in fast-paced environments can benefit from improved time management tools like to-do lists and simplified web previews to stay focused and efficient.
3. **Casual Internet Users:** Anyone who uses Chrome for browsing and needs help with organization, managing bookmarks, and quickly evaluating websites can benefit from this extension.

But for the purpose of this project, we will consider a hypothetical representative, 'Customer Sam' whose persona is described below and who embodies the target audience. This representative will be used to refine the specifications, provide feedback based on potential user experiences, and conduct acceptance testing against predefined criteria.

Dummy Customer: Sam, a Digital Productivity Seeker

- **Demographic Information:**
Age: 30
Occupation: Freelancer
Location: Urban
- **Psychographic Information:** Values productivity and efficiency in digital work. Seeks tools to streamline online tasks and reduce distractions.
- **Needs and Pain Points:** Struggles with organizing online tasks and managing bookmarks. Finds it difficult to assess search results quickly.
- **Behaviours and Preferences:** Actively explores productivity-enhancing tools and extensions. Prefers intuitive interfaces and customizable features.
- **User Goals and Expectations:** Aims to improve online productivity and time management. Expects the extension to simplify browsing and task management.
- **User Experience Considerations:** Values reliability and user-friendly design. Seeks efficient tools that integrate seamlessly into his workflow.

Problems solved by our Project and Its Significance

Modern internet users juggle a multitude of tasks, websites, and information online. This can lead to several challenges, including:

- **Inefficient information gathering:** Evaluating search results often requires opening multiple webpages, wasting time and interrupting workflow.

- **Disorganization and information overload:** Managing bookmarks, to-do lists, and personalized information across a vast online landscape can be cumbersome and hinder productivity.
- **Difficulty focusing on content:** Irrelevant elements like ads and complex layouts can distract users from the core information they need.
- **Limited understanding of complex content (Optional):** Quickly grasping the gist and sentiment of lengthy webpages can be challenging, especially for research-intensive tasks.

Our project Glimpse addresses these problems by providing a suite of functionalities that improve:

- **Efficiency:** Quickly preview website content before committing to opening full pages, saving valuable time and streamlining research and browsing.
- **Organization:** Manage bookmarks, to-do lists, and personalized quotes in a central location, promoting focus and reducing information overload.
- **Focus:** Optionally utilize a simplified view that removes distractions and allows users to concentrate on the main content of webpages.
- **Understanding (Optional):** Gain deeper insights into webpages through features like content summaries and sentiment analysis (powered by AI/ML, if implemented), facilitating a quicker grasp of complex information.

System Description

Glimpse is a Chrome extension designed to enhance your productivity, navigation, and search experience by offering a suite of powerful features:

1. Stay organized and focused:

- **Personalized quotes:** Greet your new tab with inspirational quotes to jumpstart your day.
- **Dynamic to-do list:** Manage your tasks efficiently and stay on top of your schedule.
- **Curated bookmark list:** Easily access your favourite websites with a personalized bookmark collection.
- **Customizable wallpapers:** Choose from a library of wallpapers or upload your own to personalize your new tab experience.

2. Streamline your research and information gathering:

- **Website previews:** Quickly glimpse the main content of webpages before opening them in full tabs, saving you valuable time.

- **Estimated reading time:** Get an idea of how long it will take to read a webpage based on its content length and average reading speed.
- **Simplified view (optional):** Focus on the content that matters by removing unnecessary elements like ads and navigation bars. (Available with an optional setting)
- **Bookmark directly from preview:** Save websites for later reference with a single click without needing to open the full page.

3. Gain deeper insights (optional):

- **Content summaries (powered by AI/ML):** Get a concise summary of the webpage's main points, allowing you to quickly grasp the essential information. (Available with an optional setting)
- **Sentiment analysis (powered by AI/ML):** Understand the overall tone of a webpage (positive, negative, or neutral) to guide your judgment and interpretation. (Available with an optional setting)

Justification for Project Feasibility

To assess the feasibility of the chrome extension project for a team of 7 members within a semester, let's evaluate the complexity of the proposed features:

1. New Tab Features:

- **To-Do List:** Relatively straightforward and can be achieved using HTML, CSS, and JavaScript.
- **Bookmarking Various Links:** Requires backend integration or local storage management like databases.
- **Quote that Changes Every Day:** Can be accomplished by fetching quotes from an API and displaying them dynamically on the new tab.
- **Customizable Wallpaper:** Integrating with image repositories or allowing users to upload their own images or fetching wallpapers from an API and displaying them in the new tab.

2. Preview Features:

- **Hover Preview of Search Results:** Achievable using libraries like Puppeteer or by leveraging APIs provided by search engines.
- **Open in New Tab/Current Tab:** Adding options to open links in new or current tabs is a standard browser functionality and can be implemented relatively easily.
- **Bookmarking Links:** Like the new tab feature, bookmarking links requires managing user preferences and saving data.

- **Scrollable Preview:** Involves capturing and displaying the full content of web pages within a constrained space, which may require careful optimization.
- **Estimated Reading Time and Quick Summary:** Involve analysing the content of web pages to generate estimates, which can be achieved using NLP techniques.

Justification:

- The project involves a mix of frontend and potentially backend development, which can be distributed among the team members based on their expertise.
- Each feature can be broken down into smaller tasks, allowing parallel development and efficient use of time.
- The project scope is well-defined and does not involve highly complex functionalities that require extensive research or experimentation.
- With effective project management and collaboration, the team should be able to deliver the project within the given time frame.

Overall, the project involves integration of variety of features, it is manageable for a team of 7 members within a semester timeframe. However, close monitoring of progress and clear communication among team members will be essential to ensure successful completion.