

GSoC '23 Chrome Extension Samples Project Report

Contributor: Xuezhou Dai ([GitHub](#))

Mentor: Oliver Dunk

Project Link: <https://summerofcode.withgoogle.com/programs/2023/projects/JUcx6aBB>

Project Abstract

Chrome Extensions allow users to extend Chrome to make it their own. [Chrome Extensions Samples](#) is a repository run by the Extensions DevRel team to provide sample code to help developers learn how to use APIs and build extensions.

The goal of this project is to upgrade Chrome extension samples to work with Manifest V3 and increase API coverage, which includes providing minimal API samples and providing samples that use multiple APIs with practical purposes. Add a page to developer.chrome.com documentation that lists all samples and provides a simple filtering functionality.

Tasks

Merged:

1. Add a new page in developer.chrome.com to list all samples
<https://github.com/GoogleChrome/developer.chrome.com/pull/7029>
<https://developer.chrome.com/docs/extensions/samples>
2. Add a new sample to demonstrate how to load wasm
<https://github.com/GoogleChrome/chrome-extensions-samples/pull/841>
3. Add tab capture sample
<https://github.com/GoogleChrome/chrome-extensions-samples/pull/933>
4. Add historyOverride sample
<https://github.com/GoogleChrome/chrome-extensions-samples/pull/945>
5. Add storage sample
<https://github.com/GoogleChrome/chrome-extensions-samples/pull/947>
6. Add idle sample

<https://github.com/GoogleChrome/chrome-extensions-samples/pull/961>

7. Add topsite sample

<https://github.com/GoogleChrome/chrome-extensions-samples/pull/967>

8. Add readme files to all existing samples

<https://github.com/GoogleChrome/chrome-extensions-samples/pull/981>

9. Add a action script to generate sample list

<https://github.com/GoogleChrome/chrome-extensions-samples/pull/989>

10. Update description fields for all samples

<https://github.com/GoogleChrome/chrome-extensions-samples/pull/994>

11. Add new sample: no-cookies rule manager

<https://github.com/GoogleChrome/chrome-extensions-samples/pull/986>

12. Add new omnibox sample

<https://github.com/GoogleChrome/chrome-extensions-samples/pull/988>

WIP:

1. Add a sample of clicking an anchor element with the javascript: scheme

<https://github.com/GoogleChrome/chrome-extensions-samples/pull/849>

2. Add downloads samples

<https://github.com/GoogleChrome/chrome-extensions-samples/pull/934>

3. Migration tabs sample

<https://github.com/GoogleChrome/chrome-extensions-samples/pull/964>

Lessons Learned

- Basic usage and changes of various browser extension APIs.
- Using GitHub Actions for workflow automation.
- Using Babel for AST analysis to extract the extension APIs used in the samples.
- Experience in collaborative coding and experience in writing product requirement documents.