

Google Africa Developer Scholarship Phase II

Mobile Web Specialist Practice Project

Timeline: Friday, Aug 28 - Friday, Sept 11 2020 (2 weeks)

Building a Weather App

User Story

You are working as a **freelance developer**, Sylvester Presly is the founder of “Smash It” and they hope to create an outdoor event in NYC in the coming months. Sylvester Presly contacted you and he wants you to build a **weather app** where users can get weather information in real-time.

PS: This weather information will be a determinant if the event will hold or not, it is safe to say that it is winter in NYC now.

Sylvester Presly has a **budget of \$3,000** and he wants a few features on the website.

Guidelines for API

We are to use [the open weather API](#) to make our API request, read the documentation to enable you understand how it works.

Project to-dos:

1. **Design:**
 - a. You are expected to come up with your own User interface, If you're looking for inspiration, check out other weather websites, you can also get inspirations from [uplabs](#), [site inspire](#), [Behance](#)
 - b. The aesthetic of the website is up to you as far as users can get weather information back after a search.

2. Technical requirements:

- a. The website must use Html, CSS, and Javascript(No Javascript Framework)
- b. The website must meet PWA criteria i.e
 - i. Be able to register a service worker and provide offline access to cached weather searches.
 - ii. Must have a web app manifest in order for it to be installed on the user's device.
 - iii. Must meet the web accessibility guidelines found here <https://www.w3.org/WAI/GL/WCAG20/>
- c. Save weather searches on local storage in order to make the weather results persist on the page when a user reloads.
- d. The website must be responsive on all screens.
- e. You can audit your website using google lighthouse in your chrome developer tools, in the Audit tab.

Skills:

- Have a basic understanding of service workers and how to implement them.
- Create a web app manifest.
- Have an understanding of web accessibility guidelines and why it's necessary.
- Use Local storage.
- Use an external API in JavaScript.
- Responsive designs and media query.

How to Submit your project

- Host your project on firebase and submit the link.
- Submit your project here - bit.ly/GADSPracticeProjectSubmission