

# Litter Leaderboard Web App

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## Background

Clean Planet Project Co. is a Colorado-based 501(c)(3) nonprofit startup dedicated to creating innovative solutions to make our planet cleaner and healthier. Our remote, part-time team is composed of passionate individuals who are working together to implement creative solutions that make it easier and more enjoyable for people to make a difference for the planet in their communities.

Our mission is to make the world a better place by reducing pollution and protecting the environment. To achieve this goal, we have launched the Litter CleanUp app, an on-demand volunteer litter cleanup platform that has already attracted over 4,000 volunteers from all over the world. Through the app, our volunteers have already collected more than 250,000 pieces of litter, making a real impact on their communities and the environment. We are committed to continuing to develop innovative solutions that empower people to take positive environmental action. Learn more about our mission and projects at <https://www.cleanplanetproject.org/>.

## Project Description

As part of our efforts to motivate and recognize volunteers, we want to overhaul our existing volunteer leaderboard and add a map showing our progress. The project will involve the development of a web application using either React or Flutter as a front-end framework, interfacing with our existing Firebase backend. The application will be hosted using Firebase Hosting and displayed live on our website.

The updated leaderboard will show the top volunteers based on the amount of litter they have collected, and the map will show the locations of the litter cleanup activities and the amount of litter collected. The application should include the following features:

1. **Leaderboard:** The application should display an updated leaderboard of the top volunteers based on the amount of litter they have collected.
2. **Map:** The application should include a map that shows the locations of the litter cleanup activities and the amount of litter collected.
3. **Trash Talk:** The Litter CleanUp app features a social page called the “Trash Talk” that shows the most recent litter submissions. We would like to include the global Trash Talk in this web app as well.



## **Desired Skills**

- Proficiency in either React or Flutter, and experience building web applications using either framework.
- Experience working with Firebase or other cloud-based platforms.
- Knowledge of JavaScript, HTML, and CSS.
- Knowledge of REST APIs

We are open to alternative programming languages and frameworks if necessary.

## **Team Size**

We believe this project is suitable for a team of 3-4 students.

## **Internship Opportunities**

Unfortunately we do not have the resources to offer full-time paid internships at this time. However, there may be opportunities for part-time contract work after this project.

## **Location**

Fully remote.