

# Volunteer Management 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 effectively manage our growing network of volunteers, we want to develop a volunteer management web portal. The project will involve the development of a web application using a modern front-end framework, such as React or Flutter, and interfacing with our existing Firebase backend. The application will be hosted on Firebase Hosting, and will be accessible only to our volunteer managers.

The web portal will serve as a central hub for volunteer management, providing our managers with real-time access to important volunteer data, such as their activity history and hours volunteered. The application should include the following features:

1. **Volunteer Dashboard:** The application should display a dashboard that shows the progress and activity of each volunteer, including the number of hours volunteered, number of litter collected, and other relevant metrics.
2. **Communication:** The application should include a messaging system that allows volunteer managers to communicate with volunteers, and receive emails when a message is received.
3. **Reporting:** The application should include reporting functionality that allows volunteer managers to generate reports on volunteer activity, such as the number of hours volunteered and amount of litter collected, and export the data to a CSV or PDF format.
4. **User Management:** The application should include user management functionality that allows volunteer managers to add or remove volunteers, update their profiles, and manage access levels.



## **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.