Project Title	Soil Farming Agent
Technologies	HTML, CSS, JS, and Firebase
Domain	Agriculture
Project Difficulties level	Medium

Problem Statement:

Soil is a crucial component in agriculture. There are various types of soil. Different sorts of crops thrive on different types of soils, and each type of soil has its own set of characteristics. To understand which crops grow best in which soil types, we need to grasp the traits and characteristics of distinct soil types. The proposed application admin would update the information in the portal and crop/seed distributor details with the help of soil and crop specialists. These soil and distributor details can be viewed by the user.

System Modules:

- ADMIN
- USER

Admin

- Login

- Post Soil Details
- Post Distributor Details

User

- Register
- Login
- View Sand Details
- View Distributor Details

Project Evaluation metrics:

Code:

- You are supposed to write a code in a modular fashion
- Safe: It can be used without causing harm.
- Testable: It can be tested at the code level.
- Maintainable: It can be maintained, even as your codebase grows.
- Portable: It works the same in every environment (operating system)
- You have to maintain your code on GitHub.
- You have to keep your GitHub repo public so that anyone can check your code.
- Proper readme file you have to maintain for any project development.
- You should include basic workflow and execution of the entire project in the readme file on GitHub
- Follow the coding standards.

Database:

- You are supposed to use FireBase.

Logging:

- Logging is a must for every action performed by your code, use the JavaScript or python logging library for this.

Deployment:

- You can host your model in the cloud platform, edge devices, or maybe local, but with a proper justification of your system design.

Solutions Design:

- You have to submit complete solution design strategies in LLD document

System Architecture:

- You have to submit a system architecture design in your wireframe document and architecture document.

Optimization of solutions:

- Try to optimize your solution on code level, architecture level, and mention all of these things in your final submission.
- Mention your test cases for your project.

Submission requirements:

Project code:

You have to submit your code to the GitHub repo and you have to share the repo link at final submission of your project.

Detail project report:

You have to create a detailed project report and submit that document as per the given sample.