BackEnd Developer (Django) Assignment

Problem Statement

The challenge is to create a web app where people can list their blood group and contact details online. The app will have a section where any user can submit their information in a form, another section, where all the submitted entries will be visible on a list. The list page will have a search feature using which users will be able to search blood donors by location, blood group, sex, and age. The project must fulfill all of the following user stories.

User Stories (**Requirements**) for the app

1. As a blood donor I want to be able to record my blood group, location, sex, and age using a form online.
2. As a blood recipient I want to be able to see all the available blood donors.
3. As a blood recipient I want to be able to search/filter the donors by location, sex, age, and blood group.

Instructions

1. To solve this problem, we would like you to use Django, and any other extensions/frameworks on Django (e.g. DRF, etc.).
2. Follow standard REST principles when building the API.
3. Write integration tests (test cases for your APIs).
4. Configure your application to have structured, centralized logging in JSON.
5. Containerize your application using tools, such as Docker.
6. Use your preferred front-end CSS/JS libraries to give the page a contemporary look as well as the desired functionalities. You don't have to go overboard with the UI. You can keep it simple.
7. In a README file provide clear instructions for running your project or any other special instructions.
8. Commit to your **GitHub** repository(Must be **Private Repository**) from the initial setup (You can see a sample commit message from here)

9. Add recruitment-dev as a collaborator of the repository
10. Commit early and often. Don't commit everything after finishing the assignment. By looking into your commit message, we will try to get an idea how you approached the problem
11. Make the project as production ready as possible