Back-end Test Assignment

Requirements

Create a simple Django **RESTful** application for daily check-ins and monitoring of happiness of multiple teams.

1. New teams and users (team members) can be added via the Django admin.

2. Once per day, a user is allowed to submit their happiness level for this day.

3. Using a different API end-point, users can get statistical information:

   a. if an authenticated request is made, return the statistics of user's team - the number of people at each level of happiness and the average happiness of the user's team;

   b. if an unauthenticated request is made, return the average happiness across all teams.

4. UI frontend is **not** required.

Use Django REST Framework to implement your solution. As long as the above requirements are met, you are flexible in making your own decisions and assumptions about the design of your application. If you make an assumption, please explain it in a comment or your README file.

Guidelines

- Follow Django and Python best practices.

- Include requirements and installation instructions so that the application can be run locally by other developers.

Instructions

1. Create your solution in a private repository.

2. Invite us to your private repository (in Github you can do so by going to repo settings → Manage access → Invite a collaborator).

Evaluation Criteria

- Does the solution satisfy the above requirements?

- Does the solution run locally based on the provided instructions?

- Does the solution make good use of tools/frameworks/libraries/APIs?

- Does the implementation follow established best practices (design patterns, language usage, code formatting, etc)?

- Does the solution have unit tests?

- You will not be evaluated on the time you spend to complete this assignment.