Django Task

Overview

You have to create a Django application which should be able to store information about different types of Pizzas, then create an API interface that lists the information about all the different stored Pizzas, and also be able to interact with that information (such as edit or delete).

Database

Any database other than SQLite will work. Our database should be able to store information about Pizza, following are the details:

- A Pizza can be of multiple types: Regular or Square
- A Pizza can be of multiple sizes: Small, Medium, Large, etc. (These are just examples; the user should be allowed to add any other size at any point of time)
- A Pizza can consist of many toppings out of the following (Onion, Tomato, Corn, Capsicum, Cheese, Jalapeno etc.), the choice of toppings should not be limited to the ones mentioned above, the user should be allowed to add any type of topping at any point of time)

API

- Create an API endpoint to create regular pizza and a square pizza.
- Create an API endpoint which lists the information about all the stored pizza, the response of this should also contain the information about the toppings, size and type of Pizza.
- Allow filtering the list of pizza returned by the API based on Size & Type of Pizza.
- Create an API endpoint that allows the user to edit or delete any pizza from the database.
- Create and endpoint which is emails address validator, which validates the email address on the basis of
    o Cuss words in email
    o Should be consisting of name
    o Company emails should not work
    o Filter out weird emails
    o Make an excel of all the filtered-out usernames and passwords and show it in a private endpoint in a proper format
- Create an API endpoint which is auto email sender on registration, for now the user will go to the endpoint and put their email to get 3 welcome emails
- Create and endpoint which is username, password validator, which validates the email address on the basis of
    o Password should follow the One capital, one special character and One number way
    o Username Should be consisting of name
    o Username more than 6 and password less than 8 won't work
    o Filter out weird usernames (consisting cuss words)
    o Make an excel of all the filtered-out usernames and passwords and show it in a private endpoint in a proper format
- The username, email and password will be used for at the time registration, make a registration page as well with API created as well, everything should be working using API made for registration and not just html templated.

Errors & Validation

- The API should return proper 40x codes when any kind of wrong input is sent to the API, the server should not return 500 errors
- The user should not be able to create a pizza of any other type except Regular and Square.
- The user should not be able to create pizza of size which isn't present in the database.

Documentation

- Proper documentation for each of the API endpoints and the accepted response for each endpoint should be mentioned in a README file on the repo.
- Include the steps to run the project as well

Submission Guidelines

- Application should be deployed and each and every API should be a browsable one
- Also provide credentials of user type and admin type

Submission:
- Upload a screen recorded video of the user story into your google drive and share link in the attached google form(please ensure to rename the video to your full name before uploading it, also enable access rights)
- Once approved we will ask for the code
- Rename structure: FULLNAME_PY_AUG2021

Submission Deadline: 2 Days