

Django Restbucks Challenge

An RESTful django development challenge for managing a small coffee shop

Introduction

In this challenge, you are going to develop a small django web application which manages restbucks coffee shop orders via REST APIs.

In restbucks, the manager can define variety of products via admin panel. Customers are able to order and customize their coffee with several options. Order can have a status: waiting, preparation, ready, delivered. Manager can change orders status. After each status change on order, you should notify the customer via email.

Here is sample catalog of products offered by restbucks:

Production > Customization option

- Latte > Milk: skim, semi, whole
- Cappuccino > Size: small, medium, large
- Espresso > Shots: single, double, triple
- Tea
- Hot chocolate > Size: small, medium, large
- Cookie > Kind: chocolate chip, ginger
- All > Consume location: take away, in shop

For the sake of simplicity, consider each product has a constant price no matter which option is selected.

Note: UI is not important, you can use django admin UI.

The following REST APIs should be implemented and any customer should be able to consume the API using a secure way:

- View Menu (list of products)

- Order at coffee shop with options
- View his order (product list, pricing & order status)
- Change a waiting order
- Cancel a waiting orders

API response format is up to you.

This is a typical coffee shop problem which you're probably familiar with. All defined requirements are just for testing your programming skills, they might not be meaningful in a real world example. Assume this a part of big project and take considerations needed for a big project into account.

Expectations

We want a clean, reusable, readable, and maintainable code with meaningful comments and docstrings.

Estimation

After reading and understanding the challenge and all of expectations, estimate the required development time, send us your time cost estimation and your reasoning on how you've estimated this.

Tests

- Write unit tests for your code with good coverage

Task

1. Create a new git repository for this project in some public git host (github, gitlab, hamgit, ...)
2. Develop the given challenge using django 2.2 or higher
3. Commit and Push your code to the new repository
4. Send us the link to your repository