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Article type: Project

Food Delivery Application

The assessment is divided into two parts - design and implementation.

You are expected to design the backend of a food delivery application and implement a specific part of it (think of any popular food delivery application of your choice for reference). Please proceed to the next sections for detailed instructions.

Design challenge

Your task is to design the backend of a food delivery application that would perform the following:

- List all the restaurants in your city
- Apply multiple filters (distance radius, opening hours, cuisine etc.)
- Ability to search restaurants by a food item (e.g. pizza)
- Order items from a restaurant (only order from one restaurant at a time)
- Back and forth communication with restaurants (e.g. if restaurant is not able to process an order after it is placed)
- Perform billing and checkout
- Ability to track an order (possibility to integrate with third party)

You are only expected to provide a design for the complete backend. Highlight the following in your design:

- Design diagram (if applicable) including integration points and communication between services
- Choice of technologies involved with reasons
- Application packaging and deployment
- Assumptions and considerations (if any)
- Limitations (if any)

The design exercise would assess your architecture skill, modelling and documentation skill, thought process and familiarity with technologies.

Implementation Challenge

Implement the ordering module (in Java) that would perform the following:

- Accept the order details including restaurant, food items, quantity etc
- Calculate the total billing amount
- Invoke billing service (you don't need to implement the billing service, you can stub this if you want)
- Forward the order details to the restaurant (you can stub this if you want)
- Respond back with order confirmation
- Please add test cases if possible

The application should compile and run. If you have included test cases, it would help you demonstrate your code.

This exercise would assess your coding and design ability (code readability, maintainability, extensibility and testibility) along with best practices.

How to submit

Create the project and upload it in your Github profile. Please include the design document (from design challenge) in the README.md file of your project. Also, please include detailed instructions on how to run/test your project.

Your submissions (0)

Submit your answer

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Use the button at the top to add a code snippet, or simply paste in a URL here.

https://github.com/<username>/<repo>   SUBMIT

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