Interview Task – Full Stack Developer

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OBJECTIVE

Design and implement a food ordering platform where users can select and add items to the cart and place an order.

DETAILED REQUIREMENTS

1. USER REGISTRATION AND AUTHENTICATION:
   a. Users should be able to register with the platform using their email and password.
   b. Implement an authentication mechanism to allow registered users to log in securely.

2. BROWSE ITEM INVENTORY:
   a. User should be able to browse items by category. Show list of items based on their category. Example: Search by type - All, Fruit, Vegetable, Non-veg, Breads, etc.
   b. Be creative in displaying the available inventory to the users.

3. SELECTION BASKET/CART:
   a. User should be able to add items to a basket/cart for selection.
   b. Items in cart can have more than one of the same item.
   c. When user checks out the items to "Pay and Proceed", the system should be able to check if items are available in stock.
   d. If any item is missing, then the user should be notified.
   e. User should be notified with an error for other edge cases too
   f. When the user logs in again, his previously saved cart history should be available.
   g. User can login from any device and these cart items should be available.
   h. Multiple logins for the same account are possible from different devices

4. CHECKOUT:
   a. User should be able to see the breakup of the total before checking out for payment **Ignore discounts and taxes**
   b. When item is checked out, user should be notified about the successful transaction, with orderID/trackingID
       (payment can be assumed done)
   c. If an item is not available, then "Not Available" should be shown to the user
   d. If multiple users are using the application with different accounts, then only on successful checkout, will items be deducted from the inventory's records
   e. User should be able to see his ordering history in the application
   f. User should be able to see if order is delivered or not

5. SECURITY:

    a. Implement necessary security measures to protect user data and prevent common security vulnerabilities

6. IMPORTANT CONSIDERATIONS:

    a. Create the required tables, with proper thought to the above points and pricing, inventory, order history in particular.

    b. Create services to handle the Requirements - Ensure business logic is handled as much as possible in the backend. Hence, we need APIs to handle all business requirements

    c. Create GUI to handle the Requirements. Try to make it as user friendly as possible.

    d. Attention to detail is important.

7. DOCUMENTATION:

    a. Provide detailed documentation on how to set up and run the application.

GUIDELINES

- You are free to choose any programming language, framework, or technology stack for the implementation. (Java, Python, Reactjs, Nodejs would be good to have)
- It is recommended to use a database to store user information, inventory, orders and related data.
- Focus on code quality, maintainability, and scalability of the application.
- You may use third-party libraries or frameworks, if necessary, but clearly mention any dependencies.

DELIVERABLES

- Source code of the food ordering platform, including all necessary files and resources should be shared via **GitHub**. Share the github repository for this project.
- Documentation explaining the design, implementation, and "how to run" the application.
- Host the application and share a link to access/use the project
- Briefly explain any additional features or improvements you would consider if given more time.

Note: We are looking for your understanding of the problem, your approach to solving it, and your ability to design and implement a basic version of the food ordering platform, **with all requirements met**.

Please complete the task within the given time frame and submit the deliverables for evaluation. All the Best!

Thank You!

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