Project Title	Restaurant Analysis
Technologies	Data Analyst
Domain	Food Industry
Project Level	Difficult
Organization	INeuron Intelligence Private Limited

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1. Problem Statement:

In India, the restaurant industry is booming. Currently, the Indian Restaurant Market is one of the most rapidly expanding in the globe. According to a survey by the National Restaurant Association of India (NRAI), the Indian restaurant industry is predicted to reach INR 5.99 lakh crore by 2022-23, rising at a compounded annual growth rate of 9 percent. Despite the difficulties and problems that restaurant owners have experienced in recent years, operating a restaurant in the near future would open the door to a slew of new chances for aspiring restaurant entrepreneurs.

Tasks involved:

- Organically collect data from multiple restaurants and franchise outlets, and get insights about the real challenges involved in the operations in the hospitality industry.
- Research about different types of restaurants and perform an in-depth analysis of the data thus collected, in order to help a business owner understand the key performance metrics for a restaurant business to flourish as per current market demands.
- Perform a SWOT analysis for the restaurant and report your findings.

Consider the following important decisions for your analysis:

- What should be the concept or theme for the restaurant and who is the target audience?
- Examine the costs associated with the restaurant and come up with the solutions to maximize revenue.
- Decide where you want your restaurant to be located.
- What are the licenses and permits necessary to begin your restaurant business?
- What should be the hiring process for the people you need to run your restaurant business?
- What are the food preferences of the restaurant's target customers?
- Research and compare different vendors and suppliers on the basis of different criteria and help the business owner optimize the recurrent cost.
- How to optimize the installation and maintenance cost of the essential equipment required to establish a restaurant business.

2. Project Evaluation metrics:

2.1. Code:

- You are supposed to write code in a modular fashion
- Safe: It can be used without causing harm.
- Testable: It can be tested at the code level.
- Maintainable: It can be maintained, even as your codebase grows.

- Portable: It works the same in every environment (operating system).
- You have to maintain your code on GitHub.
- You have to keep your GitHub repo public so that anyone can check your code.
- Proper readme file you have to maintain for any project development.
- You should include basic workflow and execution of the entire project in the readme file on GitHub.
- Follow the coding standards.

2.2. Database:

MongoDB is a source-available cross-platform document-oriented database program. Classified as a NoSQL database program, MongoDB uses JSON-like documents with optional schemas.

2.3. Cloud:

You can use any cloud platform for this entire solution hosting like AWS, Azure or GCP

2.4. API Details or User Interface:

You have to expose your complete solution as an API or try to create a user interface for your model testing. Anything will be fine for us.

2.5. Logging:

Logging is a must for every action performed by your code, use the python logging library for this.

2.6. DevOps Pipeline:

Build complete Continuous Integration, Continuous Testing, and Continuous Deployment pipelines for multi stage such as test environments and production environment. Docker containers/ Kubernetes cluster must be used for deployment of applications.

2.7. Deployment:

Implementation of reverse proxy, load balancing, and security group is mandatory for deployed applications.

2.8. Solutions Design:

You have to submit complete solution design strategies in HLD, LLD, and Wireframe documents**.**

2.9. System Architecture:

You have to submit a system architecture design in your wireframe document and architecture document.

2.10. Optimization of solutions:

Try to optimize your solution on code level, architecture level, and mention all of these things in your final submission.

Mention your test cases for your project.

3. Submission requirements:

3.1. High-level Document:

You have to create a high-level document design for your project. You can reference the HLD form below the link.

Sample link: HLD Document Link

3.2. Low-level document:

You have to create a Low-level document design for your project; you can refer to the LLD from the link below.

Sample link: LLD Document Link

3.3. Architecture:

You have to create an Architecture document design for your project; you can refer to the Architecture from the link below.

Sample link:Architecture sample link

3.4. Wireframe:

You have to create a Wireframe document design for your project; refer to the Wireframe from the link below.

Demo link: Wireframe Document Link

3.5. Project code:

You have to submit your code to the GitHub repo in your dashboard when the final submission of your project.

Demo link: Project code sample link

3.6. Detail project report:

You have to create a detailed project report and submit that document as per the given sample.

Demo link: DPR sample link

3.7. Project demo video:

You have to record a project demo video for at least 5 Minutes and submit that link as per the given demo.

Demo link: Project sample link

3.8. The project LinkedIn a post:

You have to post your project details on LinkedIn and submit that post link in your dashboard in your respective field.

Demo link: Linkedin post sample link