Present ~~Absent~~

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Project : Cloud kitchen Management

Functional Requirments:

1. User Registration :-
   a) allow user to create accounts on the platform
   b) Collect necessary information.
   c) Provide option for ~~aut~~ third party reg/login.

2. Resturant Registration :-
   a) resturant owners can create virtual ~~pa~~ profile.
   ~~b)~~ Collect neceessary info. (~~ki~~ ?)

3. Menu Management :-
   a) enable to add, edit, and delete food from their menus.
   b) Provide options for specifying item details, pricing and description.

4. Resturant Profiles :-

a) display detailed information of individual resturants (ratings, menus, reviews, location etc).

5. Food Item Browsing :-

a) allow users to search by category, cuisine or keyword
b) filter option to narrow down based on location.

6. Ordering System :-

a) Online food ordering directly from the platform.
b) payment gateways for secure transitions.
c) options for delivery or pickup

7. Customer Reviews and Ratings :-

a) allow customers to rate and review resturants and their food.
b) display average ratings and reviews on resturant profile.

8. Promotions an Discounts :

a) enable resturants to offer coupons, promotions discounts, loyality programs etc.

b) provide a platfonm to displaying and managing these offens.

9. Notifications :-

a) notify for order status, promotions, new items for menu ~~etc~~, reply.

b) notify owners orders and inquiries.

10. Analytics and Reporting :-

a) Provide analytics on resturant performance, popular food items, customer behavior.

b) generate reports for resturant ~~to~~ owners to help them make data driven ~~die~~ decisions.

Non-Functional Requirments :-

~~a) Response Time :-~~

1. Response Time :-

   a) Algorithm : efficient for queries, search, procesing to minimize latency.

   b) Technology : mem-cached, redis to store frequently accesed data.

2. Scalibility :

   a) Architecture : Design the system to be horizontally scalable

   b) Databare : MySQL, PostgreSQL, MongoDB to ensure high transaction rate

3. Maintainability :

   a) Microservices : For Microservice architecture for smooth maintance and scaling.

   b) Load Balancing : To distrubute traffic accross multiple servers.

4. Reliability:

a) Redundancy: To operate in if a failure occurs.

b) Monitoring: Monitoring tools to track performanance.

c) Backup: Backup data to prevent data loss.

d) Disaster Recovery: disaster recovery plan in case major outage.

5. Secure Authentication:

a) Password Hashing: bycrypt_Argon2 to protect passwoond.

b) Two facton Authenticotion.

6. Secure Authorization:

a) RBAC:

7. Reliable Communication:

a) Encrypt sensitive data.

b) HTTPS to encrypt network traffic.

c) Regular Security audits.

d) deploy Web Application Firewall.

8. Usability :

a) Responsive and easy to use Interface.

b) feedback to improve.

c) System accessable to users ~~who is~~ with dissabilities.

d) Shifat 24.9.24