### *HLD FOR ZOMATO*

Functional Requirements

* User can search different restaurant based on his/her location.
* User can select any restaurant.
* User can see the menu of selected restaurant.
* Restaurants can change the menu any time.
* User selects restaurant and add different food items from the menu.
* User orders the food by selecting different online payment modes.
* Cash on delivery can be also option .
* User can track the order in real time.
* User can cancel the order.
* The restaurants process the orders by preparing the meal and packaging the orders.
* The restaurant contacts the delivery service or their personnel delivery staff to deliver.
* Customers will have different offers in the form of coupon, discounts, etc.

# Non-functional Requirements

* FOR EXAMPLE:
* No. of orders = 9,000 orders per minute
* No. of cities and towns operational = 556
* Total number of restraunts listed on the application = 160,000
* Total active delivery partners = 1,90,000
* Total number of order cancellations = 1,800 daily
* System should be highly scalable and available.
* User should be able to get all features with minimal latency.

A diagram of a hld

Description automatically generated

* *User Authentication and Registration*
* **Feature Description**: This feature allows users to create new accounts or log in with existing ones.
* **High-Level Design**:
  + User Interface: Provides forms for registration and login.
  + Authentication Service: Verifies user credentials and generates authentication tokens.
  + User Database: Stores user information securely.
* *Product Search*
* **Feature Description**: Enables users to search for food items, restaurants and browse through categories.
* **High-Level Design:**
  + Search Engine: Processes user queries and retrieves relevant items.
  + Category Navigation: Provides hierarchical browsing options.
  + Product Catalog: Stores detailed information about available items.
* *Product Details and Reviews*
* **Feature Description**: Displays detailed product information and user reviews.
* **High-Level Design**:
  + Product Information Service: Retrieves and serves product details.
  + Review System: Manages user reviews and ratings.
* *Shopping Cart and Checkout*
* **Feature Description**: Allows users to add items to their cart and complete purchases.
* **High-Level Design**:
  + Shopping Cart Service: Manages user carts and item quantities.
  + Payment Gateway Integration: Facilitates secure payment processing.
* *Order Management*
* **Feature Description**: Allows users to view and manage their orders.
* **High-Level Design**:
  + Order Tracking System: Provides real-time updates on order status.
  + User Order History: Stores past orders for reference.