#### **Solution Architecture**

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Team ID	SWTID1720126010		
Project Name	SBFoods- Food Delivery		
Maximum Marks			

#### **Solution Architecture:**

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

- Find the best tech solution to solve existing business problems.
- Describe the structure, characteristics, behavior, and other aspects of the software to project stakeholders.
- Define features, development phases, and solution requirements.
- Provide specifications according to which the solution is defined, managed, and delivered.

# **Architecture Diagram Description:**

#### 1. User Interface:

- o **Mobile App**: Allows users to interact with the system via smartphones.
- o Web App: Enables users to access the platform through a web browser.

#### 2. Authentication Service:

 User Authentication: Manages user authentication via email/password, Facebook, and Google.

### 3. Restaurant Service:

• **Restaurant Management**: Handles restaurant listings, menu management, and updates.

# 4. Order Management Service:

o **Order Processing**: Manages the creation, updating, and tracking of orders.

#### 5. Payment Service:

 Payment Gateway: Processes payments securely via credit/debit cards, PayPal, etc.

#### 6. Notification Service:

• **Real-time Notifications**: Sends real-time notifications to users about order status, promotions, etc.

# 7. Delivery Management Service:

 Delivery Coordination: Coordinates with delivery personnel and tracks delivery statuses.

# 8. Database:

o **Data Storage**: Stores user data, restaurant data, menu items, orders, and payment details.

# 9. Analytics and Reporting Service:

o **Data Analysis**: Provides insights and reports on order trends, user behavior, etc.