Project Design Phase-I
Solution Architecture

Solution Architecture:

- Identification of Business Problems:

  - Detailed analysis of the existing problems in the food market, emphasizing the lack of diverse and high-quality burger options.

- Technology Solutions Selection:

  - Evaluation of available technologies that support customizable menu systems, inventory management, point of sale, online ordering, and customer relationship management.

  - Selection of appropriate hardware and software components that enable interactive kiosks, POS systems, kitchen display units, and online ordering platforms.

- Structural Description:

  - Description of the structural elements of the solution, including hardware, software, databases, and their interactions.

  - Design of the software structure, behavior, and functionalities required for the POS, order management, inventory systems, menu database, and customer-facing interfaces.

- Solution Requirements and Development Phases:

  - Detailed documentation of the solution requirements, features, and functionalities.

  - Identification of development phases, from infrastructure setup and database design to front-end interface development and integration.

- Specifications and Management of the Solution:**

  - Creation of specifications for different components and interfaces, ensuring compatibility and seamless integration.

  - Management guidelines for development, testing, deployment, and maintenance of the solution, emphasizing continuous improvement and updates

- Stakeholder Communication:

  - Regular communication with project stakeholders, including business owners, developers, designers, and operational staff, to ensure alignment with business goals and technology solutions.

- Scalability and Flexibility:

  - Designing the architecture with scalability in mind, allowing the system to expand, accommodate additional features, and handle increased loads as the business grows.

- Security and Compliance:

  - Implementation of security measures and compliance standards to safeguard customer data, payment information, and maintain hygiene and safety standards in food preparation and handling.

- User Experience Focus:

  - Emphasis on user-friendly interfaces and smooth customer experience, both in-store and through online platforms.

- Continuous Improvement:

  - Incorporating feedback loops and analytics to continuously refine the system, adapting to changing customer preferences and market trends.

Solution Architecture Diagram:

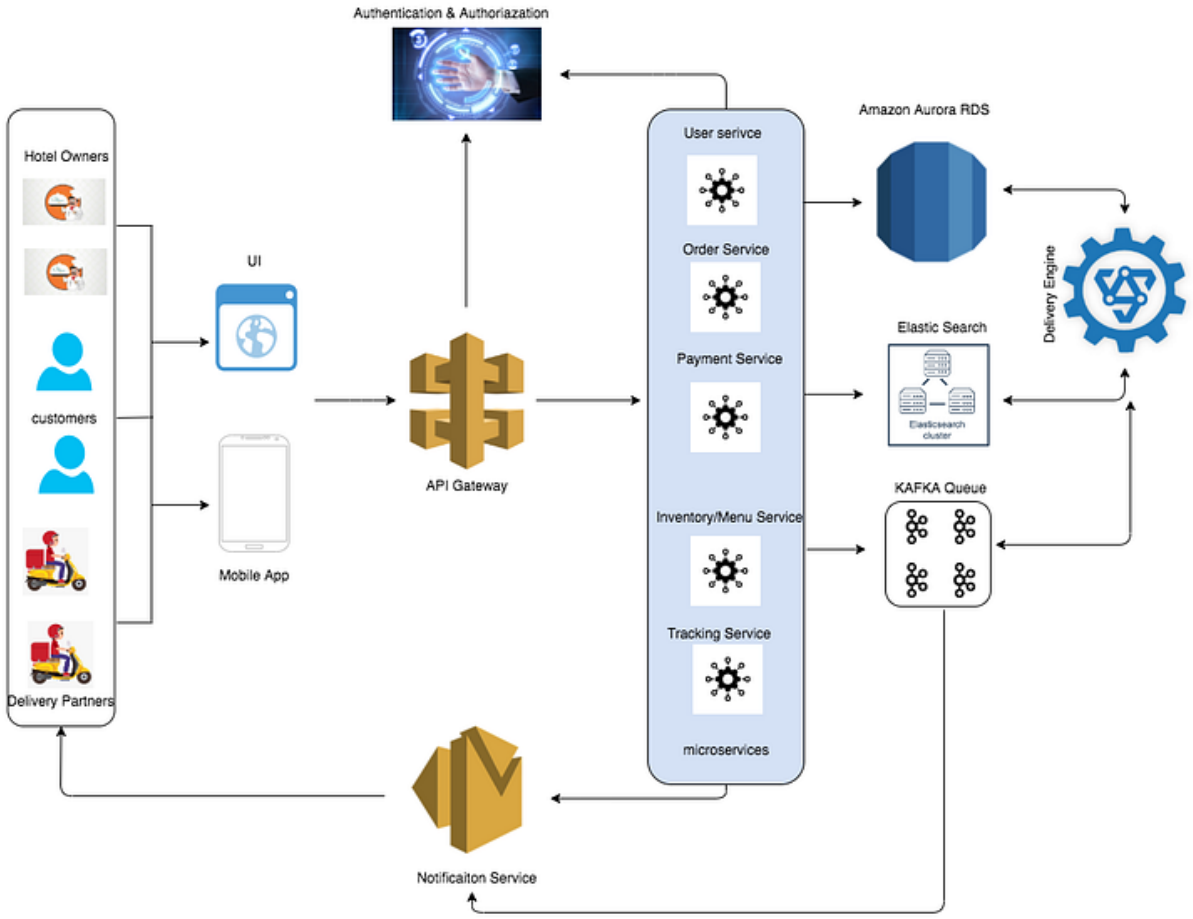

Figure 1: Architecture and data flow sample application

Reference:

https://sandesh-deshmane.medium.com/architecture-and-design-principles-for-online-food-delivery-system-33bfda73785d