

# Project Lifecycle for Online Food Delivery System

The lifecycle method chosen for the execution of the project is Agile methodology. The reasons for this choice are:

- Agile supports incremental development and continuous feedback, which is necessary for the evolving requirements of an online food delivery system.
- It allows flexibility to integrate new features as customer needs change.
- Continuous improvement through sprint retrospectives helps refine the delivery process.
- Enables frequent collaboration through scrum meetings, essential for coordinating between restaurants, delivery personnel, and customers.
- Facilitates better team collaboration and communication across different aspects of the system.

## **Plan for implementation using Agile:**

### **1. Project Initiation**

- Identify all the features needed for the project with reference to the SRS document and create a product backlog.
- Prioritize features based on business value and dependencies.

### **2. Sprint Execution**

- Hold meetings to discuss progress, plan, and address blockers.
- Develop features incrementally and continuously test them.
- Sprints will be of 1-week duration.

### **3. Reviews and Retrospection**

- At the end of each sprint, demonstrate the completed work.
- Get a set of reviewers (including potential users, restaurant partners, and delivery personnel) to try the interface and provide feedback.
- Reflect on the sprint to discuss what went well, what challenges were faced, and how the next sprint can be improved.

### **4. Backlog Refinement and Iterative Deployment**

- Based on feedback, update the product backlog.
- Reprioritize new features or enhancements.

- Continue working on the project and aim for a potential finished product at the end of each sprint.

#### **5. Final release and continuous improvement**

- Once core functionalities are stable and tested, release the system.
- Facilitate post-release maintenance and updates.

#### **Tools Selection**

- Planning Tool: Jira
- Design Tool: Figma
- Version Control: GitHub
- Bug Tracking: Jira
- Development Tool: VSCode (primary IDE)
- Testing Tools: Postman (for API testing), Selenium (for web testing), Jest (for Unit testing)

#### **Deliverables Categorization**

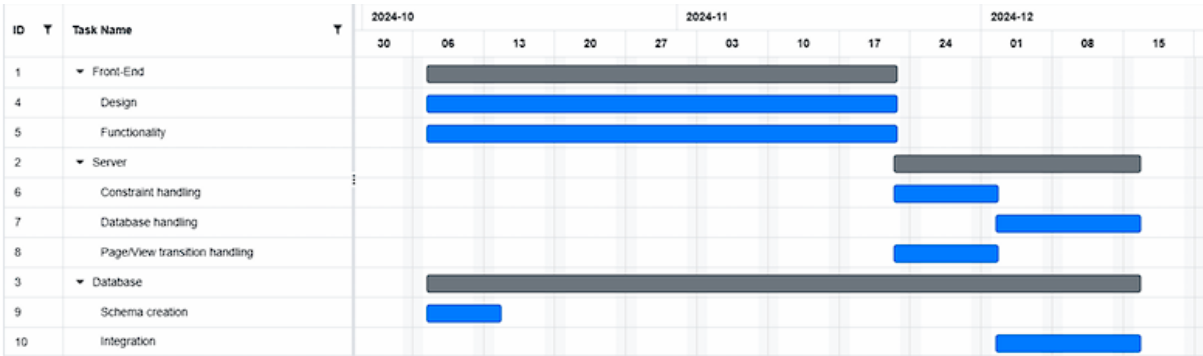
##### **Reuse Components**

- Database Management System (MySQL, PostgreSQL)
- Authentication System
- Payment Gateway Integration

##### **Build Components**

- Restaurant Management Module
- Menu Management System
- Order Processing and Tracking System
- Delivery Personnel Management Module
- User Profile and Preferences System
- Real-time Order Status Tracking
- Rating and Review System
- Reporting and Analytics Dashboard

Work Breakdown Structure



UML Diagrams

