Assignment 02: Case Study on Real-World SDLC Implementation

Case Study: Online Food Delivery Application (e.g., Zomato/Swiggy Clone)

1. Requirement Gathering
The team collects functional needs like user login, restaurant listing, live order tracking, payment gateway, and delivery partner app. Non-functional needs like speed, security, and usability are also defined.
Contribution: Helps establish what the final product must achieve.

2. Design
Architects create system diagrams, UI mock-ups, database schema, and app workflow. They design components like user app, admin panel, delivery app, and backend server.
Contribution: Provides a clear structure for developers to follow.

3. Implementation
Developers build modules like user registration, cart, restaurant panel, GPS tracking, order placement, and payment integration. API endpoints are created for communication.
Contribution: Turns the system blueprint into a working product.

4. Testing
QA team tests features such as order placement, payment processing, delivery tracking, load handling, and security. Bugs are fixed before launch.
Contribution: Improves reliability and ensures a smooth user experience.

5. Deployment
The app is uploaded to Play Store/App Store and deployed on cloud servers. Admins configure settings, and real users start placing orders.
Contribution: Makes the system available for actual use.

6. Maintenance
Continuous updates add new features like coupons, tracking improvements, chatbot support, and bug fixes based on user feedback.
Contribution: Keeps the application secure, stable, and competitive.