ShopEase – E-Commerce Application

7 Days – Day Wise Project Report

DAY 1 – Project Setup & Requirement Analysis
• Understood project requirements
• Identified user roles:
  • Admin
  • Customer
• Finalized technology stack:
  • Frontend: React
  • Backend: Spring Boot
  • Database: MySQL
• Created Spring Boot project
• Added required dependencies

DAY 2 – Database Design & Entity Creation
• Designed database schema
• Created entities:
  • User
  • Product
  • Category
  • Cart
  • Order
• Configured MySQL database
• Mapped entity relationships using JPA

DAY 3 – Repository & Basic APIs
• Created JPA repositories
• Implemented basic CRUD operations
• Created UserController, ProductController
• Tested APIs using Postman

DAY 4 – Cart & Order Management Module
• Implemented cart functionality
• Created add to cart and remove from cart APIs
• Implemented order placement logic
• Added order status (Placed, Shipped, Delivered)

DAY 5 – Frontend Setup & UI Pages
• Created React project
• Installed required packages
• Created navbar
• Created pages:
  o Home
  o Login
  o Register
  o Product List
  o Cart
• Integrated backend API with frontend

DAY 6 – Role-Based Access & Dashboards
- Implemented login logic
- Role-based routing in frontend
- Created dashboards:
  - Customer Dashboard
  - Admin Dashboard
- Restricted admin operations based on role

DAY 7 – Testing, Bug Fixing & Documentation
- Tested all modules
- Fixed backend and frontend bugs
- Improved UI responsiveness
- Prepared project documentation
- Prepared project explanation