

SDLC (Software Development Life Cycle) 1. Overview SDLC is a structured process used to design, develop, test, and deploy high-quality software. 2. SDLC Phases

1. Requirements Gathering & Analysis

- Identify business needs
- Stakeholder interviews
- Document requirements

2. Planning

- Define project scope
- Create project timeline
- Risk analysis

3. Design

- HLD & LLD
- Architecture diagrams

4. Development

- UI/UX mockups

5. Testing

- Unit testing
- Integration testing

6. Deployment

- System testing
- UAT

7. Maintenance

- Production release
- CI/CD automation

3. SDLC Models • Waterfall

- Agile

- V-Model

- Spiral

• Iterative

4. Conclusion SDLC ensures structured, predictable, high-quality software delivery.