

# software development lifecycle

## SLDC

### 1. Planning

project planning, Gantt charts

### 2. Requirement analysis

SRS → software requirements specifications

### 3. Design

SDD → software design documents

with entity relationship (ER) diagram, unified modeling language (UML) diagrams, Computer Aided Design (CAD) drawings

### 4. Implementation

code, system documentation

### 5. Testing and integration

Test plan, Test documentation

### 6. Maintenance

deployment, end user documentation, user guides, installation guides, end-user documentation, system documentation

## planning phase

### 1. gather requirements

identify the user's needs, what they expect, and define the scope of your project

### 2. design architecture

develop a high-level architecture that identifies all the components required in the system

### 3. create project plan

develop a detailed project plan that includes a timeline, budget, and resource allocation for all project activities

