

## Software Development Process

The software development process is a systematic approach to designing, building, testing, and maintaining software systems.

It ensures quality, efficiency, and reliability.

### 1. Requirement Analysis:

Understanding user needs through interviews, research, and documentation.

### 2. System Design:

Planning architecture, workflows, data models, and interfaces.

### 3. Implementation:

Writing the source code based on planned design.

### 4. Testing:

Checking the software for bugs, performance issues, and logic errors.

### 5. Deployment:

Releasing the final application to users.

### 6. Maintenance:

Updating features, fixing errors, and improving performance post-release.