



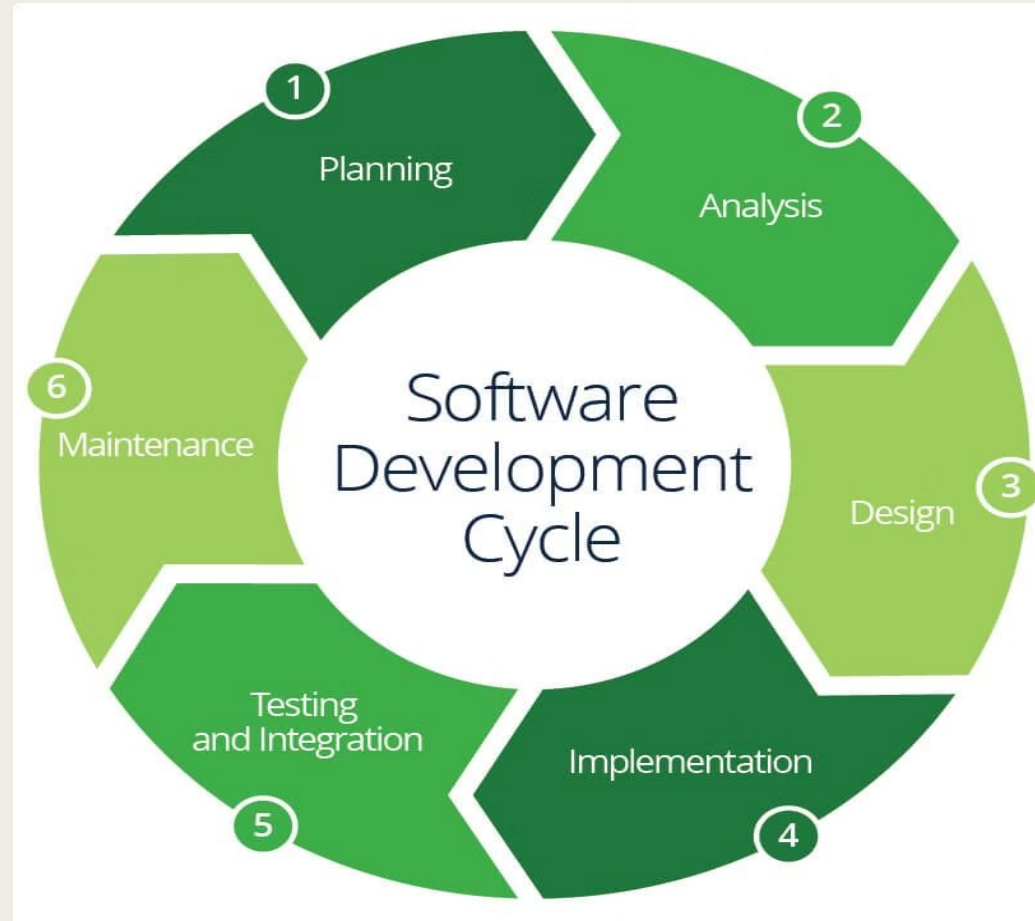
SOFTWARE DEVELOPMENT LIFE CYCLE



SDLC:

- It is a structured Process that software developers follow to design, develop, test and deploy software applications.
- The main goal of SDLC is to produce high quality software that meets customer requirements.
- There are 7 phases of SDLC that guide the software development process.

Phases of SDLC:



Phase 1: Planning

- Define project scope, goals
- Identify stakeholders and their roles
- Determine resources and budget

Phase 2 : Analysis

- Gather requirements from stakeholders
- Define functional and non-functional requirements
- Create use cases and user stories

Phase 3 : Design

- Create architecture and system design
- Develop user interface and user experience designs
- Plan testing and quality assurance

Phase 4 : Implementation

- Write code and develop software
- Integrate third-party libraries and services
- Conduct unit testing and integration testing

Phase 5 : Testing

- Plan and execute various testing types (e.g., system, acceptance, regression)
- Identify and fix defects
- Conduct performance and security testing

Phase 6 : Deployment

- Plan and execute deployment to production
- Configure and set up infrastructure
- Monitor and troubleshoot issues

Phase 7 : Maintenance

- Provide ongoing support and maintenance
- Fix defects and make updates
- Continuously improve and refine the software

SDLC Models:

- Waterfall Model
- V Model
- Agile Model
- Spiral Model
- Iterative Model

THANK YOU