

What is SDLC

- Framework / Process / Model / Guideline / Approach.
- describes activities performed at each stage of software development project
- Defined steps to software project

Benefits:

1. Clear Goals & Responsibility
2. Project Tracking & visibility.
3. Improved quality product.
4. Decrease proj. mgmt overhead.

1. Analysis & Planning

- Gather Business requirements from clients / stakeholders
- Evaluate feasibility of product / project.
 - ↳ Cost of production
 - revenue potential
 - Technical / operational / economic / legal / schedule feasibility.
- Resource Allocation → tools, people, scheduling

- Scope of work (SOW) : High level document



- Project specs
- Deliverables

• Timelines.

• Agreement

* Timeframe may be days or months depending on scale & nature of project.

- details what is being built

- what will be seen at end of proj.

→ • Analysis & Planning (1 - 3 wks)

• Requirements Gathering (1 - 2 wks)

• Design & Prototyping (2 - 4 wks)

• Software Development (4 - 6 wks)

• QA Testing (1 - 2 wks)

• UAT Testing (1 - 2 wks)

• Deployment (1 wk)

• Maintenance & updates (repeat)
(Hypercare period 1 wk → Hotfix if required)

2. Requirements

- Gathering requirements from business users.
 - ↳ schedule meeting / workshops
 - ↳ Share template to business user to fill & return.

Stakeholders for meeting: (Brainstorming)

- Business team (clients)
- Business Analyst
- Project manager
- Technical Architect
- Lead Developer

What to discuss in meeting:

- How existing system work / any existing system in place
- Who is going to use app (actors)
- What input / output required
- 3rd party APIs / tools
- Security & privacy requirements
- Possible limitations.

* Should not immediately begin coding after this

Next steps:

1. Business Analyst prepare Software Requirements Specification Document (SRS / user stories)
if Agile

① Functional & Non functional requirements

- What the software should do.

eg: • Login form for user

- Registration form

- Quality constraint

- How software should behave

eg: • Performance / Response time

- Accessibility

- Availability

- Scalability

- Maintainability

- Every page should load in 3s

- App should be accessible over browser & mobile

- Available 99% of time

* important for this

SRS to be detailed

• Business users / clients

need to review SRS

& agree.

②

Technical Requirements

- Tech Stack

- database

} Tech

architect

will provide