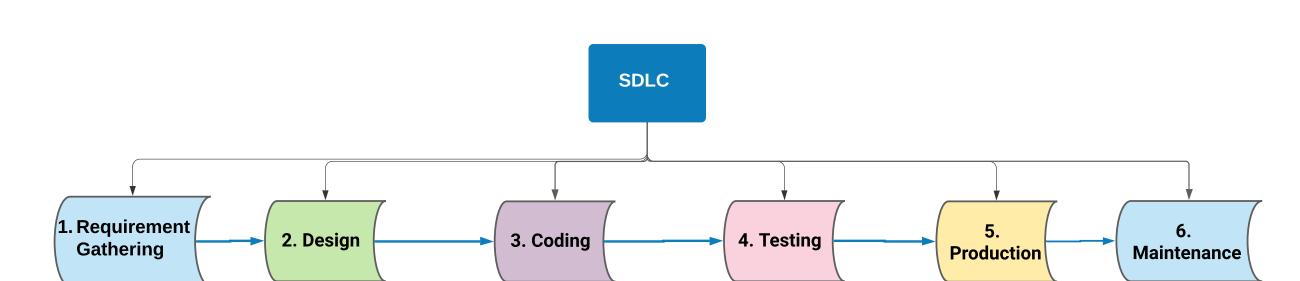
Software Development Life Cycle (SDLC)

Interview question from this topic:

- What is **SDLC**?



Step 1: Requirement Gathering & Analysis

Goal: 1. Business team collects the detail requirements

- Requirements may from different resources
- 2. Analyze the requirements & Plan how to develop the app
 - The team analyzes economic, law regulation, technology, and schedule; this is called a feasibility study.
- 3. Document all the functional and non-functional reqreuiments

There are several types of documents are prepared:

- Software Requirement Specification (SRS) Click here to view a sample SRS doc
- Market requirement (MR), Functoinal requirment(FR), Non-functional requirements(NFR), etc

Who: Business team members - Project managers, Product Owner, Business Analyst the Client and stakeholders

Output: SRS document

Step 2: Designing

Goal:

Architectures and designers creates Design Documents Design the application' UI, Databse, API, etc.

- Click here for a sample software Design specification (SDS)
- SDS sample 2

Who: Business team (PM, PO, BA), The client/stakeholders, Architechtures/designers, develoeprs(may be)

Output: SRS doc & Prototype of the app



Goal:

Developers build the software by writing code using the chosen programming language

Codes are divided into small units Developers review each others' code

Developer lead approves the codes

This is the longest phase of the SDLC process

Who:

Develoerps (FrontEnd dev, BackEnd Dev, Full-stack Dev)

Output: Initial version of the project/software

Step 4: Testing

Goal:

-> Perform software testings based on functional and non-functional requirements **Analyze** the requirement and **plan** how to test

Write test case documents and prepare test data

Identify bugs & write bug reprots Test reports are documented

Who: QA engineers / SDET, performance testers, security engineers, the client, end-users

Output: Bug free software / ready to be released app

Step 5 : Deployment / Production / Release Goal:

Moving the developed software to the production environement so that the users can access

to the software. - Developers, testers, business team members are all together release the app

- Codes / new features are deployed to production
- The software will be practical used by end users

Who: Everyone who is involved to develop the app. Business team, Development team, DevOps team,

The client sometimes. Output: End users use the app

Goal:

Step 6: Maintenance

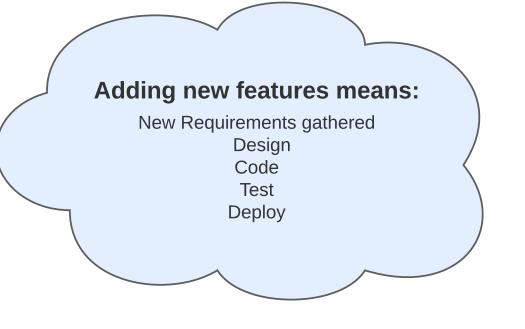
- Bug fix: There maybe some bugs occurs in production that missed in testing step

- **Project support** with the help of developers, Dev-ops engineers and business team - **Update** and improve the software by **adding new features**
- Who:

- Everyone who involved in developing the project - or the company will form a "support team" with any develoeprs and testers

- provide support

- **Output:**
 - may start a new SDLC to add new features to the app





APP RELEASE

