

Software Management Methods

Interview Questions & answers:

- What do you know about the **Waterfall** method?
- Did you work in a **Agile team** ? What are the things you liked about Agile?
- What is your software management method? What methodology did you follow ?
- Agile or Waterfall? Which one do you prefer?

What is a software method?

- A software management method is essentially **a set of principles and rules** to processes for managing a project.
- There are several software methods in the IT industry.
- All the project management methods have **unique rules and principles** that **describe how to follow the SDLC**.
- Each software method has a strict rule to **manage, plan, and control** software development **procedures** .
- The different software methods for IT companies:
 - waterfall
 - Agile
 - V-model
 - etc

SDLC - Waterfal method

Waterfal Method History

- The "Waterfall" method is **from** the **Construction Industry** to the **IT Industry**.
- A product has to be developed **step by step** in the construction industry. People should work carefully on each step **because they cannot go back to the previous step to fix errors based on the Waterfall method rule**.



Construction Industry

Waterfal Method in IT

- The Waterfall method **was the first software method** used to develop softwares.
- In a waterfall model, **each phase must be completed before the next step can begin, and there is no overlapping in the stages**.
- It is very simple to understand and use.
- In "The Waterfall" approach, **each step of the SDLC process is divided into separate steps**.
- The Waterfall method emphasizes making plan before taking action
- Each step depends on the **outcome** of the previous stages to precede
- Waterfall guarantees success when the **projects are small** with **clear requirements**.

Advantages

- ▶ **Easy to understand and implement**. There is no need to train the team and familiarize them with the Waterfall methodology.
- ▶ The **start and end points** for each phases are **set**, which makes it **easy to measure** progress.
- ▶ The **stability** of the model makes project management easier.
- ▶ Since all phases occur without any overlap, hence it **reduces** the project **complexity**.
- ▶ **Careful** planning of project development **structure reduces** the number of problematic **issues**;
- ▶ **Quality and Detailed Documentation**.

Disadvantages

- ▶ **Poor software result** for long duration and large projects.
- ▶ If the customer's requirements are not clear, then it could create significant complications later in the project development life cycle.
- ▶ **Little to No Changes**. Once the requirement is finalized, any changes in requirements would not only be difficult but also costly