



OBJECT ORIENTED SOFTWARE ENGINEERING

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Introduction to Software Engineering

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Why Software Engineering?

- The common problem with growing startup is **not following the process/procedure**. The process is essential for any business to start.
- Not having a **documented process** is always bad.
 - imagine a situation where your skilled staff decide to leave the company.
- If we **maintain a standard operating procedure** for a business then you know their working style, logic behind their decision, process helps to automate the software development and you can always hand out manual to your team and ensure them to follow a checklist.

- A **proper planning & documentation** is essential for any software development to be done.
- An organization that implements process, follow documentation.
 - You need to understand you can't manage what you can't measure.
- With process in place you can see **where your time is consumed, what you need to work on**, etc. a couple of questions helps to improve the process.

- To improve the quality of software
- To increase the productivity
- Job satisfaction of software engineer.

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- **Reduces Complexity:** Software Engineering divides large problem into several small problems and solving one by one. All these problems are solved independently.



- **To minimize Software Cost:**
Software engineering programmers plan everything and reduce all those things that are not required.



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What is SDLC ?

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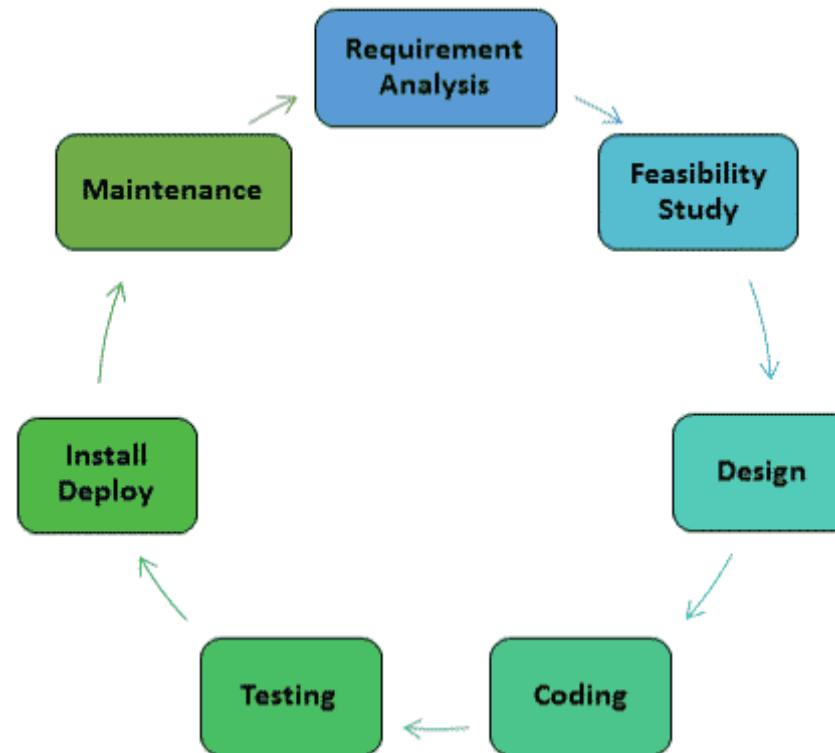
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- SDLC is the abbreviation used for **Software Development Life Cycle**. It is also Known as Software Development Process.
- SDLC is a description of phases in the life cycle of a software application.
- It consists of a detailed plan as how to **develop, build** and **enhance** a specific software. Each phase of the SDLC lifecycle has its own process and deliverables that feed into the next phase.

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Various phases of Software Development Life Cycle (SDLC) are:

- **Requirement Analysis**
- **Feasibility Study**
- **Design**
- **Coding**
- **Testing**
- **Install/Deploy**
- **Maintenance**



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Software and Software Engineering

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What is a Software? & What is Software Engineering?

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Software and Software Engineering...



In general we can define software as

- Software is a **product**, that software professionals build and then support over the long term.
- Software engineering encompasses
 - a **process**,
 - a collection of **methods (practice)** and
 - an array of **tools** that allow professionals to build high-quality computer software.



THANK YOU

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