

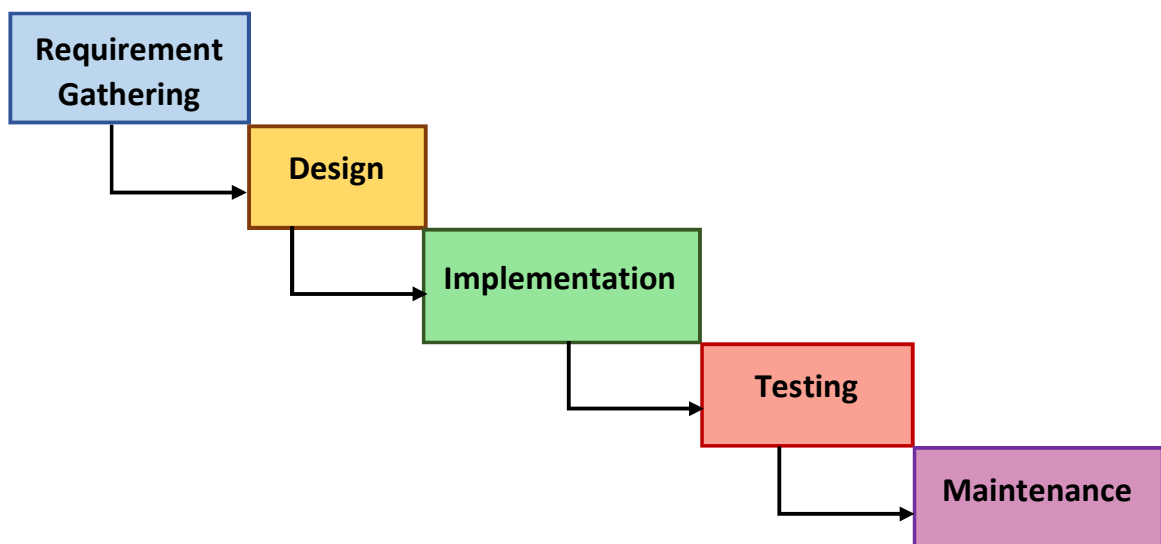
SOFTWARE ENGINEERING PROJECT

TAXI MANAGEMENT SYSTEM

- **PROCESS MODEL:** Waterfall model

WATERFALL MODEL:

1. The waterfall model is a classical model used in system development life cycle to create a system with a linear and sequential approach.
2. It is termed as waterfall because the model develops systematically from one phase to another in a downward fashion.
3. This model is divided into different phases and the output of one phase is used as the input of the next phase.
4. Every phase has to be completed before the next phase starts and there is no overlapping of the phases.



WATERFALL MODEL

- **Reasons for choosing WATERFALL MODEL:**

1. Waterfall model is simple, easy to use and it will help us in understanding each phase of the Software Development Life Cycle really well. It clearly divides the problem into various independent stages.
2. Phases do not overlap. They can be processed and completed one at a time.
3. Our Requirements are not ambiguous.
4. Waterfall method works well when the requirements are very well understood, clear and stable. Our project is exactly same in this case as – our requirements are clear, well known and fixed. i.e. we have 3 interfaces customer, driver and admin.
5. Our project is short - small in size and scope, Waterfall model works well for such projects.

- **Reasons for not choosing other models:**

1. RAD model is used to build highly modularized system and not suitable for smaller projects.
2. Iterative or incremental model is not suitable for our project as it not needs any iterations as all requirements are clearly defined. After detecting problem in any unit, it requires correction in rest all units which is time consuming.
3. Spiral model is too expensive for small scale projects and highly dependent on risk analysis. Also, number of phases are not known at the start of the project, so time estimation is very difficult.