# **WATERFALL MODEL**

# The Waterfall methodology — also known as the Waterfall model — is a sequential development process that flows like a waterfall through all phases of a project (analysis, design, development, and testing, for example), with each phase completely wrapping up before the next phase begins.

The following illustration is a representation of the different phases of the Waterfall Model.

## **Waterfall Model - Application**

Some situations where the use of Waterfall model is most appropriate are −

* Requirements are very well documented, clear and fixed.
* Product definition is stable.
* Technology is understood and is not dynamic.
* There are no ambiguous requirements.
* The project is short.

## **Waterfall Model - Advantages**

Some of the major advantages of the Waterfall Model are as follows −

* Simple and easy to understand and use
  + Works well for smaller projects where requirements are very well understood.
* Clearly defined stages.
* Well understood milestones.
* Easy to arrange tasks.
* Process and results are well documented.

## **Waterfall Model - Disadvantages**

The major disadvantages of the Waterfall Model are as follows −

* No working software is produced until late during the life cycle.
* High amounts of risk and uncertainty.
* It is difficult to measure progress within stages.
* Cannot accommodate changing requirements.

