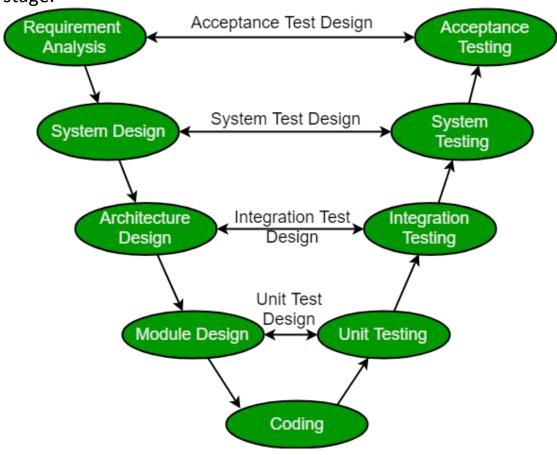
SDLC

- 1. SDLC stands for software development life cycle.
- 2. It helps to develop a software in a systematic manner.
- 3. There are different SDLC models
 - A. Classical waterfall model
 - B. Iterative waterfall model
 - C. Spiral model
 - D. Incremental model
 - E. V-model
- 4. V-model is the one of the widely used for software development processes in the automotive industry.
- 5. V-model is also called as verification and validation model.
- 6. In V-model there is association of a testing phase for each corresponding development stage.



Development phase:

1. Requirement Analysis:

This phase contains detailed communication with the customer to understand their requirements and expectations.

2. System Design:

This phase contains the system design and the complete hardware required for developing product.

3. Architectural Design:

System design is broken down further into modules taking up different functionalities. The data transfer and communication between the internal modules and with the other systems is clearly understood.

4. Module Design:

In this phase detailed design of modules is specified.

Testing phases

1. Unit Testing:

Unit test plans are developed during module design phase. These unit test plans are executed to eliminate errors at unit level.

2. Integration Testing:

In integration testing modules are combined and the system is tested. Integrating testing is performed on the Architectural design phase. This test verifies the communication of modules among themselves.

3. System Testing:

System testing test the complete application with its functionality, inter dependency and communication.

4. User Acceptance Testing:

User acceptance testing verifies that the delivered system meets user's requirement and system is ready to use in real world.