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## V-Model in Software Testing

#### **V** Model

Testing ~

**V Model** is a highly disciplined SDLC model in which there is a testing phase parallel to each development phase. The V model is an extension of the waterfall model in which testing is done on each stage parallel with development in a sequential way. It is known as the Validation or Verification Model.

## **Key Software Engineering**

#### Terms: SDLC: SDLC is Software Development Life Cycle. It is the sequence of activities carried out

by Developers to design and develop high-quality software. STLC: STLC is Software Testing Life Cycle. It consists of a series of activities carried out by

Testers methodologically to test your software product. Waterfall Model: Waterfall model is a sequential model divided into different phases of software development activity. Each stage is designed for performing the specific activity.

Testing phase in waterfall model starts only after implementation of the system is done. SDLC Vs STLC: Software Development Life Cycl.



Suppose, you are assigned a task, to develop a custom software for a client. Now, irrespective of your technical background, try and make an educated guess about the

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sequence of steps you will follow, to achieve the task.

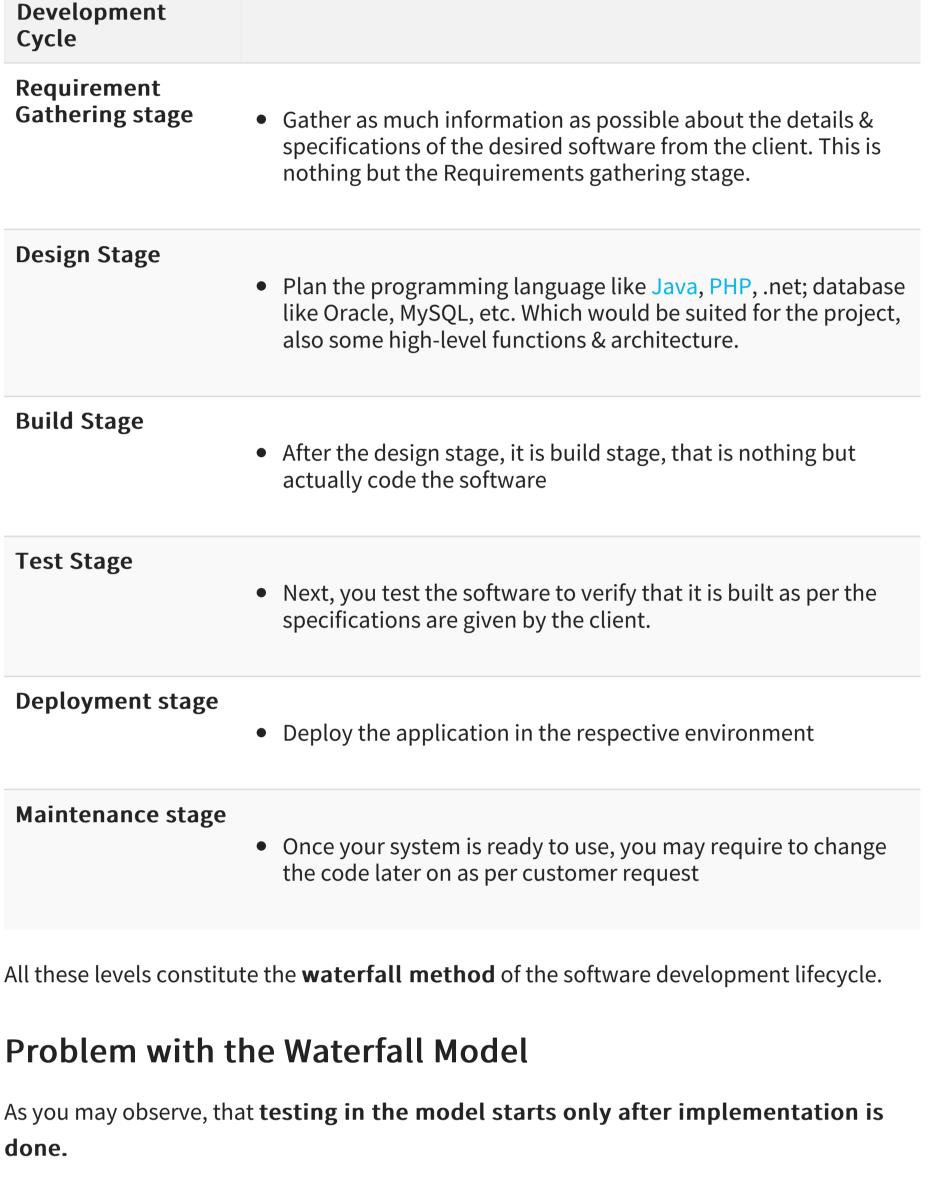
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Introduction

Linux Tutorials Intro auction Plan the programing languages like java , php .net ; database like oracle, mysql etc which would be suited for the project Test the software to verify that it is built as per the specifications given by the client Actually code the software Gather as much information as possible about the details & specifications of the desired software from the client The correct sequence would be. **Activities performed in each stage** Different phases of the Software

Requirement



product will be delivered to the client and you might have to start afresh with the project OR if you manage to note the requirements correctly but make serious mistakes in design and architecture of your software you will have to redesign the entire software to correct

out the key details in the requirements phase itself. In such cases, an entirely wrong

But if you are working in the large project, where the systems are complex, it's easy to miss

#### the error. Assessments of thousands of projects have shown that defects introduced during

30 >

stitch in time saves nine."

requirements & design make up close to half of the total number of defects. Relative cost to fix, based on time of

detection

25 x 20> 15 X 10) 5 X Coding System / Production / Requirements / Post-Release Architecture Acceptance Testing Testing Source: National Institute of Standards and Technology

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Also, the costs of fixing a defect increase across the development lifecycle. The

earlier in life cycle a defect is detected, the cheaper it is to fix it. As they say, "A

#### Solution: The V Model To address this concern, the V model of testing was developed where for every phase, in the Development life cycle there is a corresponding Testing phase friendly system. Requirement System Testing Analysis High Level Integration Design Testing Low Level **Unit Testing** Design

Coding

• The left side of the model is Software Development Life Cycle - **SDLC** 

• The right side of the model is Software Test Life Cycle - STLC

comprises its independent set of development and testing activities.

• The entire figure looks like a V, hence the name V - model

Good examples of Development lifecycles following iterative method are Rapid Application Development, Agile Development

Conclusion

Prev

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for the project. • In any model, testing should be performed at all levels i.e. right from requirements until maintenance.

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project depends on the aims and goals of that project.

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There are numerous development life cycle models. Development model selected for a

• Testing is not a stand-alone activity, and it has to adapt the development model chosen

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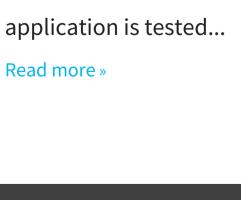
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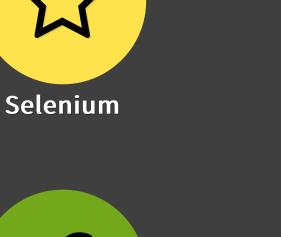
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is a type of software testing



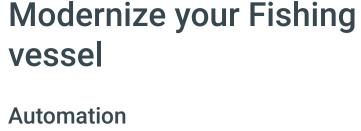




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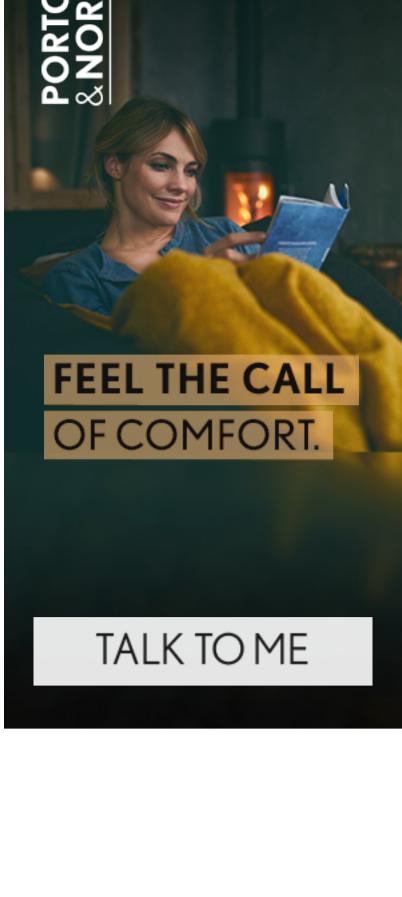
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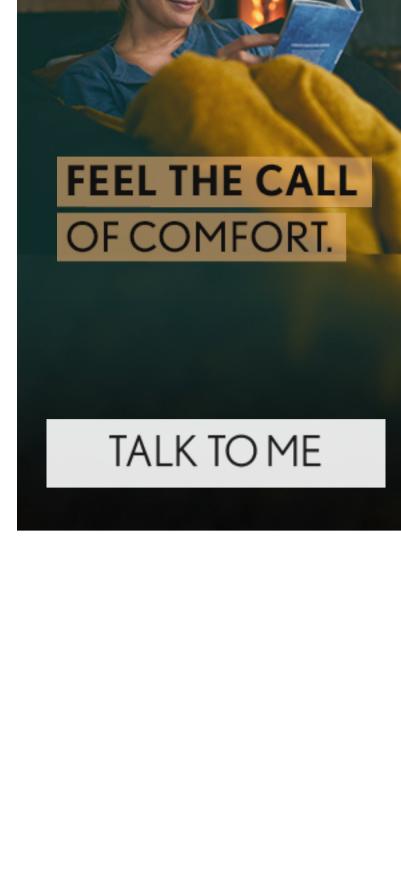
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Apart from the V model, there are iterative development models, where development is carried in phases, with each phase adding a functionality to the software. Each phase

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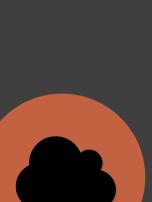
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