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What is Spiral model- advantages, disadvantages and when to use it?

The spiral model is similar to the **incremental model**, with more emphasis placed on risk analysis. The spiral model has four phases: Planning, Risk Analysis, Engineering and Evaluation. A software project repeatedly passes through these phases in iterations (called Spirals in this model). The baseline spiral, starting in the planning phase, requirements are gathered and risk is assessed. Each subsequent spirals builds on the baseline spiral. Its one of the **software development models** like **Waterfall**, **Agile**, **V-Model**.

Planning Phase: Requirements are gathered during the planning phase. Requirements like 'BRS' that is 'Bussiness Requirement Specifications' and 'SRS' that is 'System Requirement specifications'.

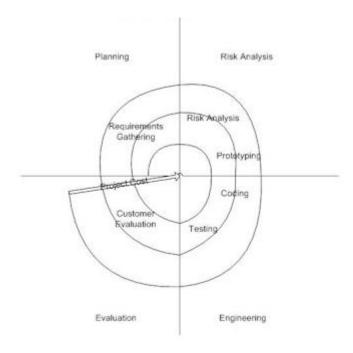
Risk Analysis: In the **risk analysis phase**, a process is undertaken to identify risk and alternate solutions. A prototype is produced at the end of the risk analysis phase. If any risk is found during the risk analysis then alternate solutions are suggested and implemented.

Engineering Phase: In this phase software is **developed**, along with **testing** at the end of the phase. Hence in this phase the development and testing is done.

SEARCH Search this website SEARCH ISTOB CERTIFICATION EXAM STUDY MATERIAL Chapter 1. Fundamentals of testing What is Software testing? Why is testing necessary? Software testing objectives and purpose What is Defect or bugs or faults? What is a Failure? From where do Defects and failures arise? When do defects arise? What is the cost of defects? Defect or Bug Life Cycle What is the difference between Severity and **Priority? Principles of testing Fundamental test process** Psychology of testing Independent testing- it's benefits and risks

Evaluation phase: This phase allows the customer to evaluate the output of the project to date before the project continues to the next spiral.

Diagram of Spiral model:



Advantages of Spiral model:

- High amount of risk analysis hence, avoidance of Risk is enhanced.
- Good for large and mission-critical projects.
- Strong approval and documentation control.
- Additional Functionality can be added at a later date.
- Software is produced early in the **software life cycle**.

Disadvantages of Spiral model:

• Can be a costly model to use.

Software Quality Chapter 2. Testing throughout the testing lifecycle What is Verification? What is Validation? **Capability Maturity Model (CMM-Levels)** Software Development Life Cycle Software Development Life Cycle (SDLC) phases **Software Development Models** Waterfall model V-model Incremental model RAD model Agile model Iterative model Spiral model **Prototype Model Software Testing Levels** Unit testing **Component testing** Integration testing Big Bang integration testing Incremental testing

- Risk analysis requires highly specific expertise.
- Project's success is highly dependent on the risk analysis phase.
- Doesn't work well for smaller projects.

When to use Spiral model:

- When costs and risk evaluation is important
- For medium to high-risk projects
- Long-term project commitment unwise because of potential changes to economic priorities
- Users are unsure of their needs
- Requirements are complex
- New product line
- Significant changes are expected (research and exploration)

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- What is Waterfall model- advantages, disadvantages and when to use it?
- What are the Software Development Life Cycle (SDLC) phases?
- What is V-model- advantages, disadvantages and when to use it?
- What is Incremental model- advantages, disadvantages and when to use it?
- What is Iterative model- advantages, disadvantages and when to use it?

Component integration testing
System integration testing
System testing
Acceptance testing
Alpha testing
Beta testing
Software Test Types
Functional testing
Non functional testing
Functionality testing
Reliability testing
Usability testing
Efficiency testing
Maintainability testing
Portability testing
Baseline testing
Compliance testing
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Tagged With: advantages, advantages of spiral model, disadvantages, disadvantages of Spiral model,

Spiral model, when to use spiral model

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Difference between Volume, Load and stress testing in software

Recovery testing

Internationalization testing and Localization testing

Confirmation testing

Regression testing

Structural testing

Maintenance Testing

Impact analysis

Chapter 3. Static Techniques

Test design techniques

Static test technique

What is static Testing?

Uses of Static Testing

Informal reviews

Formal reviews

The roles and responsibilities of the moderator, author, scribe, reviewers and managers involved during a review

Types of review

Walkthrough

Technical review

Inspection

kira says May 18, 2018 at 11:42 pm

very usefuly thank a lot

Reply

Abdussamad Ibrahim Ahmad says May 9, 2018 at 5:11 pm

Thanks great very helpful

Reply

Umme Khan says

May 6, 2018 at 9:38 pm

very useful thanks

What is static analysis?
What is a static analysis tools?
Chapter 4. Test design techniques
Test analysis
Traceability
Test design
Test implementation
Test design technique
Categories of test design techniques
Static testing techniques
Dynamic testing technique
i. Black box testing or Specification-based
Equivalence partitioning (EP)
Boundary Value Analysis (BVA)
why it is important to do both EP and BVA
Decision tables
State transition testing
Use case testing
ii. White box testing or Structure-based
iii. Experience-based testing
Error guessing
Exploratory testing
Structure based technique
Test coverage
Where to apply this test coverage?
5/

harshvardhan says

January 21, 2018 at 1:25 pm

nice but diagram is not clear

Reply

Muzanfar Khan says

January 26, 2018 at 10:29 pm

have you best diagram.....

Reply

nina says

January 19, 2018 at 6:53 pm

its really good and useful... nice work

Reply

Why to measure code coverage? How we can measure the coverage? Types of coverage Statement coverage **Branch Coverage or Decision Coverage** Condition coverage How to choose that which technique is best? Chapter 5. Test management Roles and responsibilities of a Test Leader Roles and responsibilities of a Tester Purpose and importance of test plans Things to keep in mind while planning tests What testing will involve and what it will cost? **Estimation techniques** Factors affecting test effort **Test strategy Test monitoring** Test control **Configuration management** Risks in software testing Product risk Project risk

Risk-based testing

Muzanfar Khan says

January 26, 2018 at 10:32 pm

i think its idea is not good because he relate this with incremental... i think he should explain a little bit. otherwise best

Reply

sajjal noor says

January 19, 2018 at 12:28 pm

very very very ...nice work ... THANKS

Reply

Kyrian says

January 15, 2018 at 10:08 pm

How can spiral and agile hybrid be established

Risk analysis

Incident management

Incident logging Or How to log an Incident

What are incident reports?

How to write a good incident report?

What is test status report?

Chapter 6. Tool support for testing

Types of test tools

Tool for management of testing and tests

Test management tools

Requirements management tools

Incident management tools

Configuration management tools

Static testing tools

Review process support tools

Static analysis tools (D)

Modelling tools (D)

Test specification tools

Test design tools

Test data preparation tools

Test execution and logging tools

Test execution tools

Test harness/ Unit test framework tools (D)

Reply

theddy msangi says

January 14, 2018 at 6:45 pm

its really good and helpful. thank you

Reply

BHASU CHANDRA DASSANAYAKE says

December 23, 2017 at 11:24 pm

best best best best best information it was sooooo help full thanks

Reply

adutidro says

December 8, 2017 at 11:03 am

very simplified and easy to understand good one

Test comparators Coverage measurement tools (D) Security tools Performance and monitoring tools Dynamic analysis tools (D) Performance testing, Load testing and stress-testing tools **Monitoring tools** Advantages and benefits of using testing tools Disadvantages and risks of testing tools Factors for software testing tool selection Proof-of-concept or piloting phase for tool evaluation

Reply

JAYAPRAKASH K says

November 22, 2017 at 10:17 am

it is really good bro..... very easy to understand.... good work

Reply

Meghali Tinni Das says

November 11, 2017 at 5:19 pm

it helps me a lot of my studies & mah exam too.

Reply

Asma sk says

November 7, 2017 at 7:43 pm

Love the explanation easy to understand and could be very useful for me in my studies... Thank you 😜

Reply

munira malik says

October 30, 2017 at 8:06 am

ever a best website..appropiate and accurate ans of need is always available

Reply

CH TalHa says
October 23, 2017 at 10:44 am

yeah.. Its Really good Thanks for info

Reply

Tanaji jagdale says

October 18, 2017 at 10:38 am

It's really so good.. and more useful for me.

Reply

joseph kiragu says

October 9, 2017 at 4:14 pm

nice job it really helpfull

Reply

Daud says

October 6, 2017 at 7:37 pm

thank you for your notes, two thumbs up!!!!!!!

Reply

Ivan Songoni says

October 3, 2017 at 1:19 pm

Vivid and vital, they are easy to read and understand, thanks so much.

Reply

Suyel Bálor says

September 11, 2017 at 12:25 pm

Thats really a good explanation simple language makes it too easy to understand thankx brooo

Reply

pranmi says

September 8, 2017 at 5:14 pm

hi, I like your information, do u have more information about companies who use all three model waterfall, spiral, Agile what they face problem regarding these model, why they prefer Agile model

namutosi sarah says

August 24, 2017 at 7:25 pm

the difference between build and fix and water fall model

Reply

BALAJI THUMMALA says

August 11, 2017 at 3:47 pm

above mentioned advantages and disadvantages of spiral model is very easy to understand.and your described style is very good

Reply

fida hussain says

August 10, 2017 at 11:44 am

Best page for our helpful thanks

Thaslima sheheer says

August 2, 2017 at 8:55 pm

Complex things in simple language....
Gud job

Reply

Mansi says

July 31, 2017 at 4:32 pm

I like that all the things are represented perfectly nd the most important thing is that simple language is used .

Reply

Yamini says

July 31, 2017 at 8:47 am

It's really so good.. and more useful for me.. thank u so much

	Pakalapati.lssac Paul Son says
	July 1, 2017 at 11:57 am
	nice information broogood work
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	керіу
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LU	ave a Reply
Υοι	ır email address will not be published. Required fields are marked *
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Naı	me *
Em	ail *
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Complete guide to defect management

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Career in Software
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Roles, Responsibilities

Big Data Testing -Complete beginner's guide for Software Testers

What is a Test Case? Example Template, Types, Best Practices

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SDLC

What is V-model? When to use it?

What is Spiral model? When to use it?

Agile model - When to use it?

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