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## Software Testing Day 5 – Types of Testing

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## Agenda

### Types of Testing

- Levels of Testing
- Black box testing
- White box testing
- Gray box testing
- Static and dynamic Testing
- PT
- VAPT
- RT
- UAT



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# Environments

PROD Environment

DEV1

QA1

STAGING

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## Levels of Testing

### Levels of Software Testing

Unit testing

Integration testing

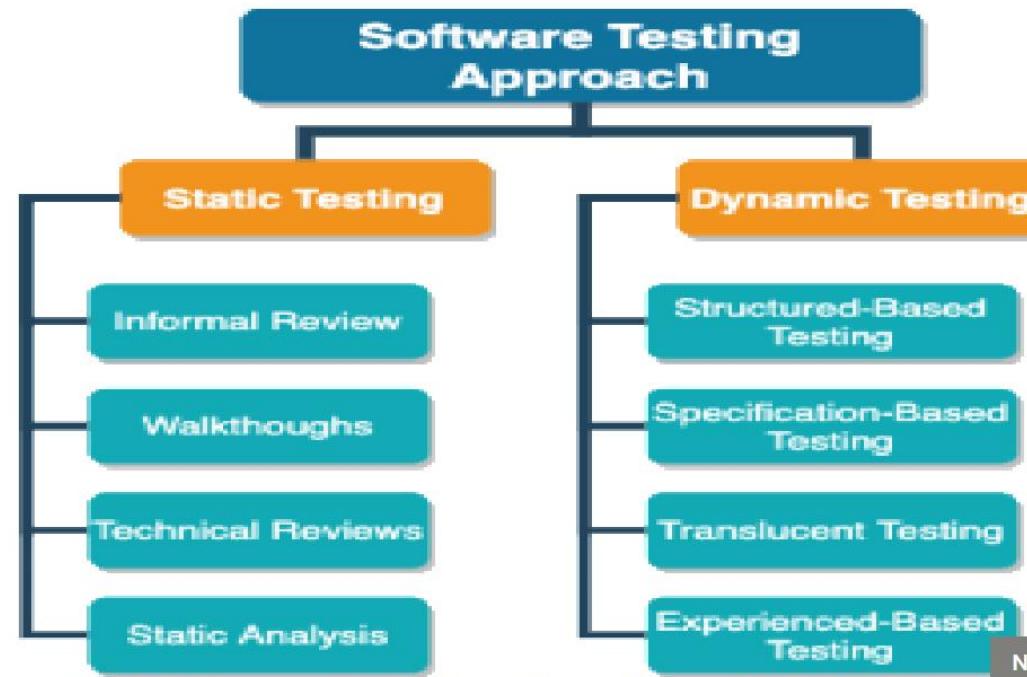
System testing

Acceptance testing



Notes

# Testing Approach



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# Static Testing

**The static testing is the testing of software or its component at the specification or implementation level without executing the software.**

**This testing checks the code, requirement, and design documents and puts review comments on the word document.**

**Static testing can be done using documents like requirement specifications, design documents, source code, test plans, test scripts, test cases, or web page content**

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# Static Testing

## Benefits of doing static testing

- Early defect detection and correction
- Development productivity improvements
- Reduced development time-scales
- Reduced testing cost and time
- Lifetime cost reductions
- Fewer defects and improved communication.

Notes



# Static Testing

## **Types of defects identified during the static testing**

- Deviations from standards
  - Requirement defects
  - Design defects
  - Insufficient maintainability
  - Incorrect interface specifications.

## Notes



# Static Testing

- **Static Testing Techniques**
- **Informal Reviews**
- **Walk Throughs**
- **Technical Reviews**
- **Static Analysis**

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# Static Testing – Informal Review

- The informal review has all the team members with the SRS document creator. He puts the document in front of everyone and everyone presents their views on the defects.
  - This leads to the detection of defects in the early stages.
  - The discrepancies are sorted using SRS (System Requirements Specifications) documents.

Notes



# Static Testing – Informal Review

Reviews vary from very informal to formal (i.e. well structured and regulated). Although inspection is perhaps the most documented and formal review technique, it is certainly not the only one

## Phases of a formal review

- 1 Planning
- 2 Kick-off
- 3 Preparation
- 4 Review meeting
- 5 Rework
- 6 Follow-up.

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# Static Testing – Walkthroughs

Walkthrough reviews are performed by experts or skilled people. This is done to avoid unnoticed defects or bugs.

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# Static Testing – Technical Reviews

All the software product's technical specifications are reviewed by a team of your peers, which checks whether it is suitable for the project.

Everyone tries to find out if there are any discrepancies in the specifications and standards.

This is mainly based on the technical documentation related to the product, such as test plan , test strategy and requirement specification documents.

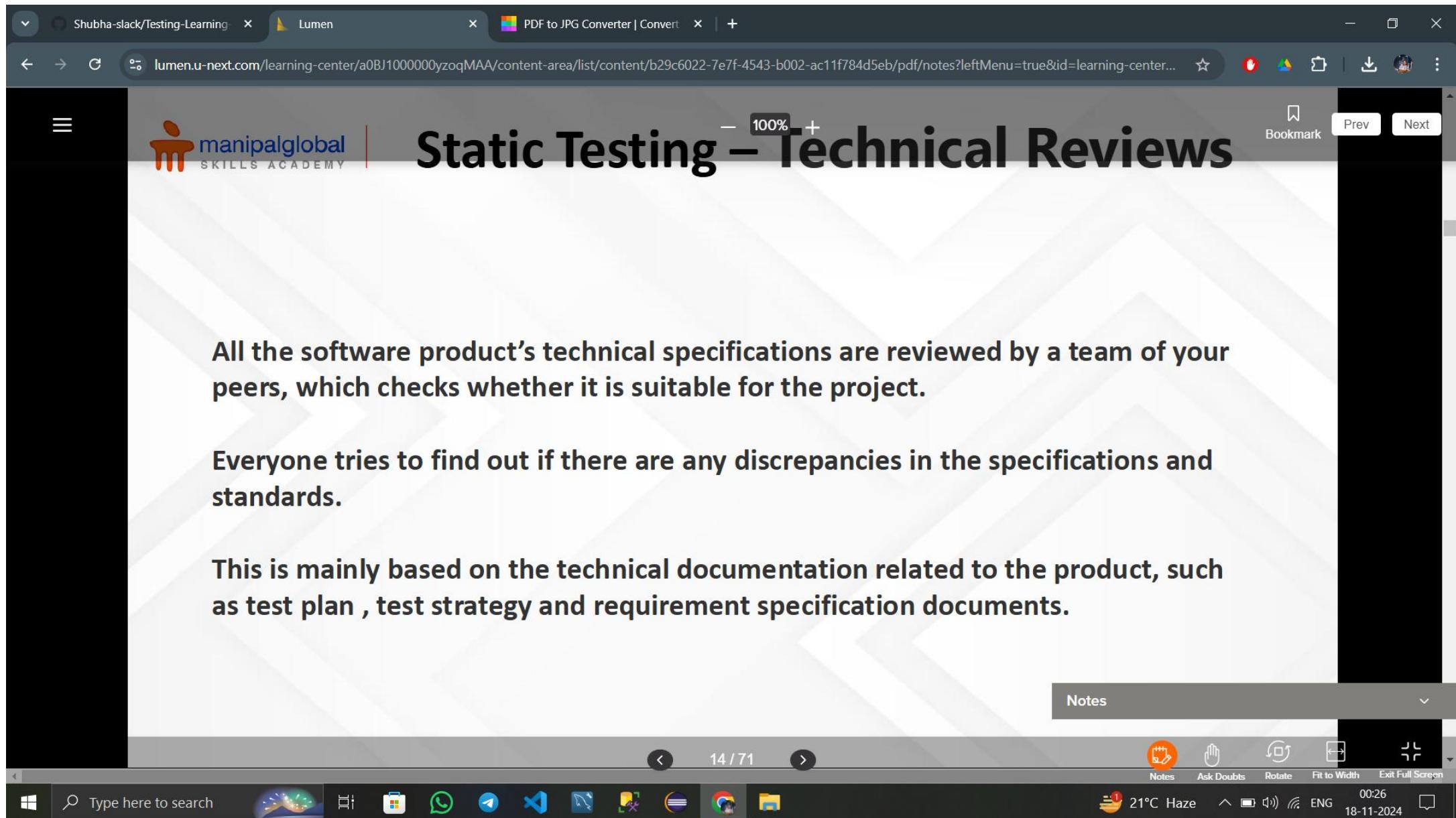
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# Static Testing – Technical Reviews

All the software product's technical specifications are reviewed by a team of your peers, which checks whether it is suitable for the project.

**Everyone tries to find out if there are any discrepancies in the specifications and standards.**

This is mainly based on the technical documentation related to the product, such as test plan , test strategy and requirement specification documents.





# Static Testing – Static Analysis

**This is a systematic review of the software source code without executing the code. It checks the syntax of the code, coding standards, code optimization, etc.**

**This is also termed as white box testing.**

**This review can be done at any point during development.**

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# Dynamic Testing

- Dynamic testing is a method to access the use of a software program by giving input and examining the output.
- This technique is used to detect defects and to determine quality attributes of the code.
- Dynamic testing is completed in validation process.

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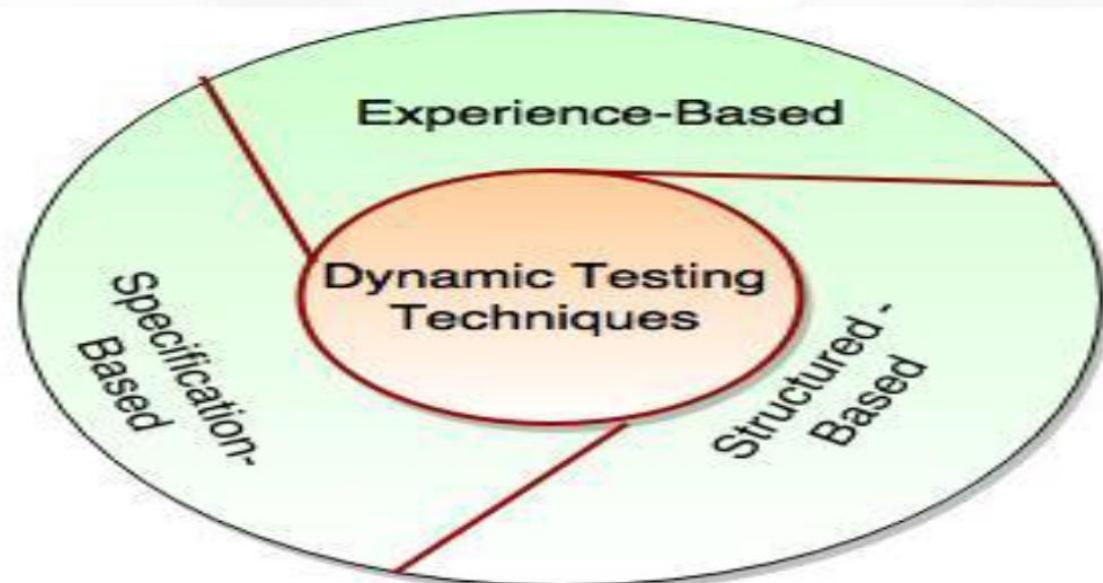
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# Dynamic Testing



**Fig.- Subcategories of Dynamic Testing Techniques**

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## **Dynamic Testing - Specification-Based Testing Technique**

**Specification-based testing technique is called as Black Box or Input/Output driven Testing Technique.**

**It is because the testers view the software as black-box with inputs and output.**

- Functional and non-functional testing are the types of specification-based testing.
  - Specification based technique is applicable at all the levels of testing.
  - Specification based test design techniques use the specification of the program.
  - Specification can be anything such as written document, collection of use cases, a set of modules or a prototype.

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## Dynamic Testing - Specification-Based Testing Technique

Following are the types of specification Based testing techniques:

- i) Equivalence Partitioning
- ii) Boundary Value Analysis
- iii) Decision Tables
- iv) State Transition

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## Dynamic Testing - Specification-Based Testing Technique

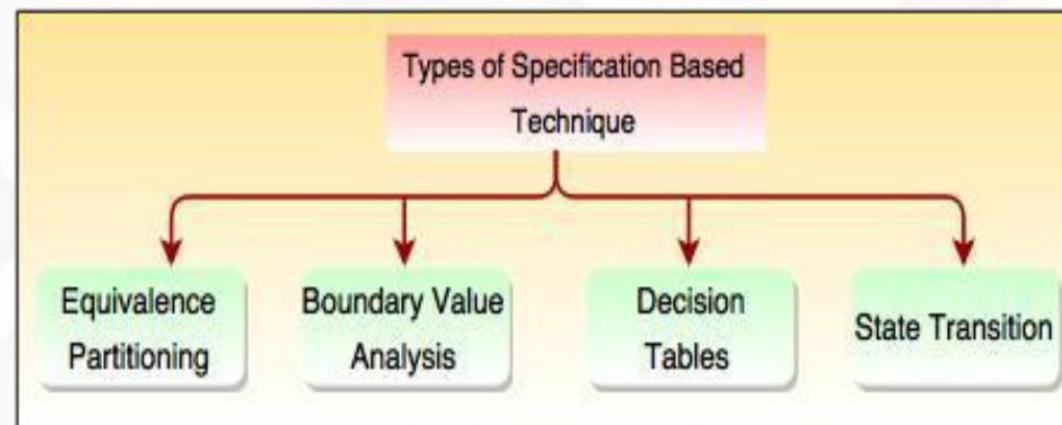


Fig.- Types of Specification Based Technique

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## Dynamic Testing - Specification-Based Testing Technique – Equivalence Partitioning

- In equivalence partitioning, software testing technique divides the input data of a software unit into the partitions of equivalent data and test cases are derived from the partitions of equivalent data.
- Equivalence Partitioning is applied at any level of testing.
- The software treats all the conditions in one partition as the same. Hence, equivalence partitioning needs to check only one condition from each partition.
- Since, all the conditions in one partition are same, if one condition in partition works then we can assume that all the conditions in that partition work or otherwise.

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## Dynamic Testing - Specification-Based Testing Technique – Equivalence Partitioning

Percentage

\*Accepts Percentage value between 50 to 90

### Equivalence Partitioning

Invalid	Valid	Invalid
<=50	50-90	>=90

Notes



## Dynamic Testing - Specification-Based Testing Technique – Equivalence Partitioning

Enter OTP

\*Must include six digits

### Equivalence Partitioning

Invalid	Invalid	Valid	Valid
Digits $\geq 7$	Digits $\leq 5$	Digits=6	Digits=6
67545678	9754	654757	213309

Notes



## Dynamic Testing - Specification-Based Testing Technique – Boundary Value Analysis

- A boundary value for a valid partition is a valid boundary value.
- A boundary value for an invalid partition is an invalid boundary value.
- For each variable we check-
  - Minimum value.
  - Just above the minimum.
  - Nominal Value.
  - Just below Max value.
  - Max value.

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## Dynamic Testing - Specification-Based Testing Technique – Boundary Value Analysis

### Boundary Value Analysis

**Valid**  
**Invalid**       $(\min, \min + 1,$       **Invalid**  
 $(\min - 1)$       **nominal, max - 1,**       $(\max +$   
                         $\max)$        $1)$

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## Dynamic Testing - Specification-Based Testing Technique – Decision Tables

- **Decision table testing is a combination of inputs that generates various outputs. It is also known as Cause-Effect table.**
- **It gives a standard way to test complicated business rules that are useful for testers and developers.**
- **The first task is to recognize a suitable function that behaves according to the combination of inputs.**
- **If the system contains many inputs, then combination becomes unmanageable.**

Notes



## Dynamic Testing - Specification-Based Testing Technique – Decision Tables

Email (condition1)	T	T	F	F
Password (condition2)	T	F	T	F
Expected Result (Action)	Account Page	Incorrect password	Incorrect email	Incorrect email

Notes



## Dynamic Testing - Specification-Based Testing Technique State Transition Testing

- The system can be in a limited number of various states and the transitions from one state to another. It is determined by the rules of the “machine”.
- This is the model based on the system and the tests.
- The model is more elaborated as we require the advantage of the state transition technique.

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## Dynamic Testing - Specification-Based Testing Technique State Transition Testing

- The system can be in a limited number of various states and the transitions from one state to another. It is determined by the rules of the “machine”.
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## Dynamic Testing - Specification-Based Testing Technique State Transition Testing

**Following are the basic parts of the state transition model:**

**The state of the software could be start, open, close, exit etc.**

- The transition from one state to another is allowed but not compulsory.**
- An event causes a transition like closing a file or withdrawing money etc.**
- The action results from a transition i.e an error message or access the cash.**
- For example, State transition diagram for ATM machine.**

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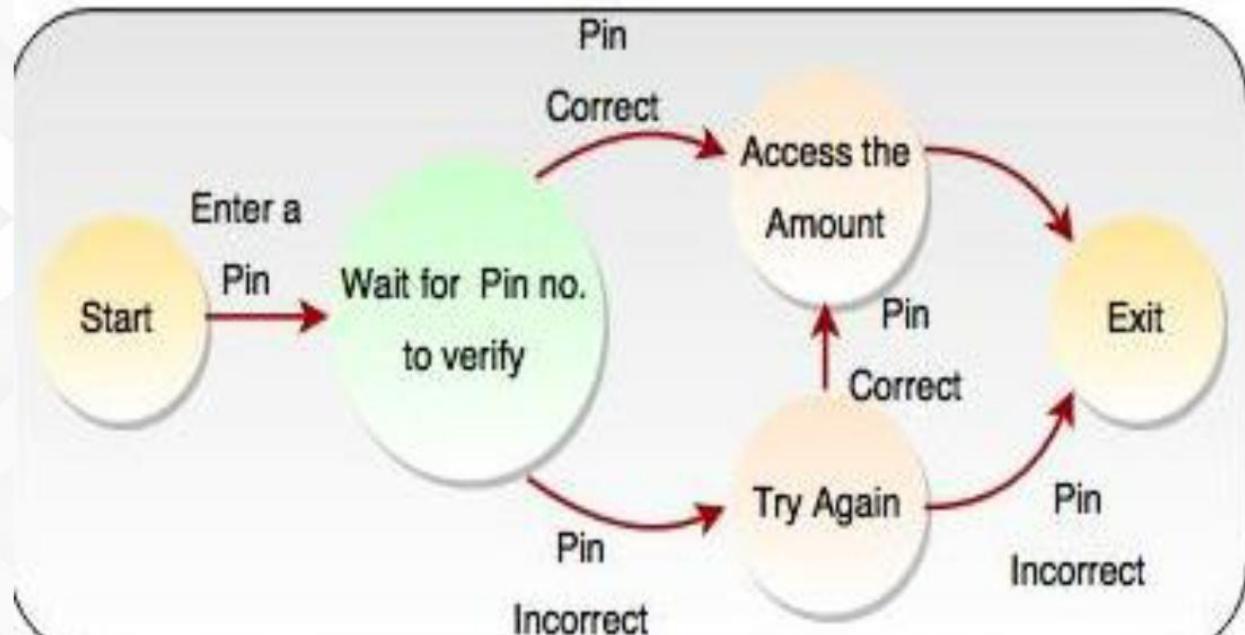
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## Dynamic Testing - Specification-Based Testing Technique State Transition Testing



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## Dynamic Testing - Structure-Based Testing Techniques

- **Structure based technique is called as White box testing or Glass box testing.**
- **Using structured based technique, we produce additional test cases which are different from existing tests.**
- **Structure based testing assists two purposes i.e test coverage measurement and structural test case design.**
- **The test cases derived in specification-based techniques are used to access coverage of testing in above purposes.**
- **These are used to design more tests with the goal of increasing the test coverage.**
- **Test coverage measures the amount of testing executed by a set of**

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## Dynamic Testing - Structure-Based Testing Techniques

$$\text{Coverage} = \frac{\text{Number of coverage items utilized}}{\text{Total number of coverage item}} * 100\%$$

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## Dynamic Testing - Structure-Based Testing Techniques

### Coverage measure

- The coverage measurement of code is completed by using tools. Many tools are available for this task.

These tools helps for following tasks:

It helps to improve the quality and productivity of testing.

- The quality improves to verify more structural aspects that are tested. This helps to find the defects on those structural path.

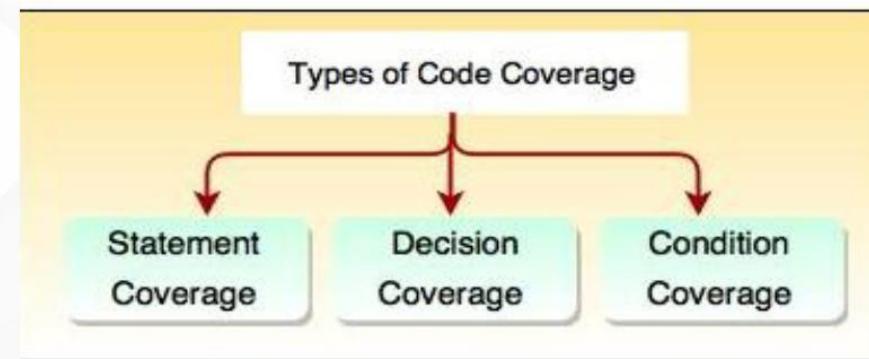
- It helps in testing the same structure with different data.

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## Dynamic Testing - Structure-Based Testing Techniques

Following are the types of Code Coverage:

- i) Statement coverage
- ii) Decision coverage
- iii) Condition coverage



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Dynamic Testing - Experience-Based Testing Technique

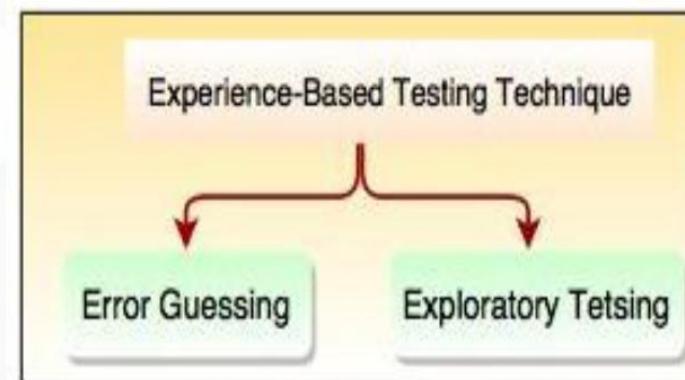
- Experience-Based testing technique requires testers to possess knowledge, skills and background. These are important to test conditions and test cases
  - The experience people in both technical and business are needed, because they bring various aspects to test, analysis and design process as well as they may have an idea about which is the best way for testing and what is going wrong.
  - This technique is used with specification-based and structured based techniques and also used when there is no specialization or the specification is out of date.
  - This technique is used for low-risk system.

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## Dynamic Testing - Experience-Based Testing Technique

### Types of Experience Based Testing Technique

- i) Error guessing
- ii) Exploratory testing



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## Dynamic Testing - Experience-Based Testing Technique – Error Guessing

- In error guessing, experienced and good testers are required to recognize the defects in the component.
- The experienced testers are able to find weaknesses of a system. So, the error guessing approach is used after more formal techniques and it is effective.
- The assumption and guesses are constructed by the experienced testers. Hence it saves time in error guessing.
- The success of Error Guessing technique is absolutely dependent on the skills and experience of the tester.

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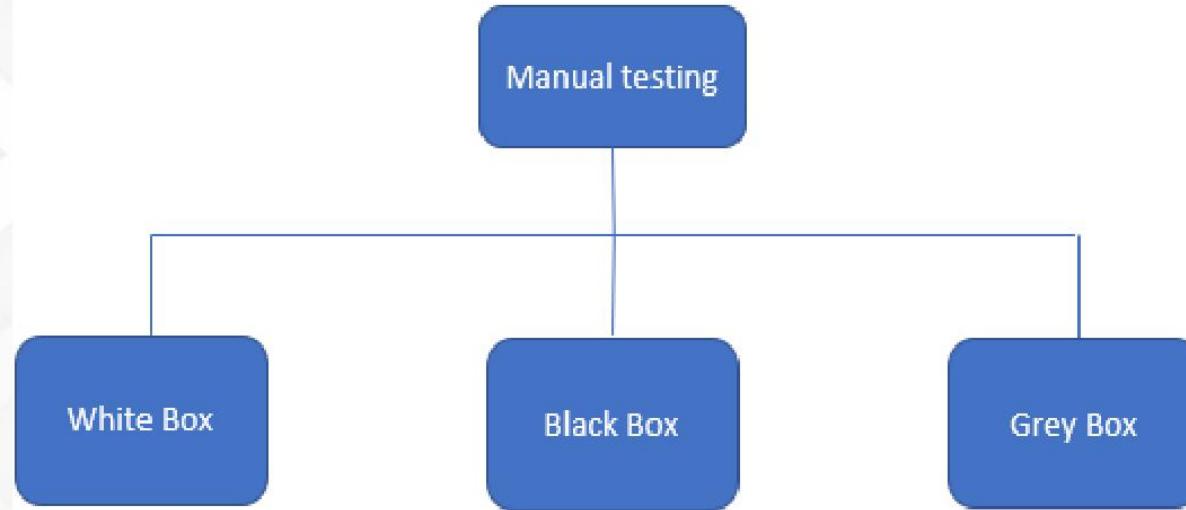


## Dynamic Testing - Experience-Based Testing Technique – Exploratory testing

- Exploratory testing examines or explores the software. It finds out if software works or not.
- The testers continuously make decisions about what to test next and where to spend time.
- This approach is useful when there is limited time and poor specifications are available.
- In exploratory testing, testers are involved in minimum planning and maximum test execution.
- This testing is used to check formal test process i.e. planning, test design, test execution etc. which ensures that most serious defects are found.

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## Manual testing



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## Manual testing

### Manual testing

- Testing any software or an application according to the client's needs without using any automation tool is known as manual testing.
- Manual testing is used to verify the behavior of an application or software in contradiction of requirements specification.

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## White Box Testing

### White Box Testing

- In white-box testing, the developer will inspect every line of code before handing it over to the testing team or the concerned test engineers.
- the code is noticeable for developers throughout testing; that's why this process is known as WBT (White Box Testing).
- In other words, we can say that the developer will execute the complete white-box testing for the software and send the specific application to the testing team.
- The purpose of implementing the white box testing is to emphasize the flow of inputs and outputs over the software and enhance the security of an application.

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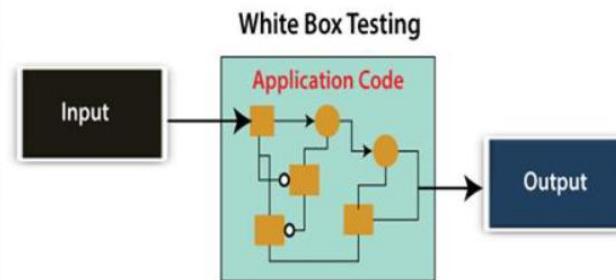


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## White Box Testing



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## Manual testing

### Black Box testing

- In this testing, the test engineer will analyze the software against requirements, identify the defects or bug, and sends it back to the development team.
- Then, the developers will fix those defects, do one round of White box testing, and send it to the testing team.
- Here, fixing the bugs means the defect is resolved, and the feature is working according to the given requirement.
- The main objective of implementing the black box testing is to specify the business needs or the customer's requirements.
- In other words, we can say that black box testing is a process of checking the functionality of an application as per the customer requirement. The source code is not visible, which is why it is known as black-box testing.

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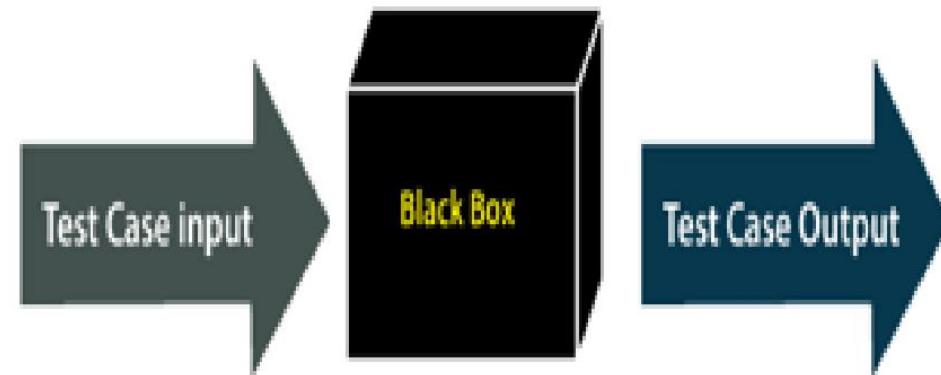


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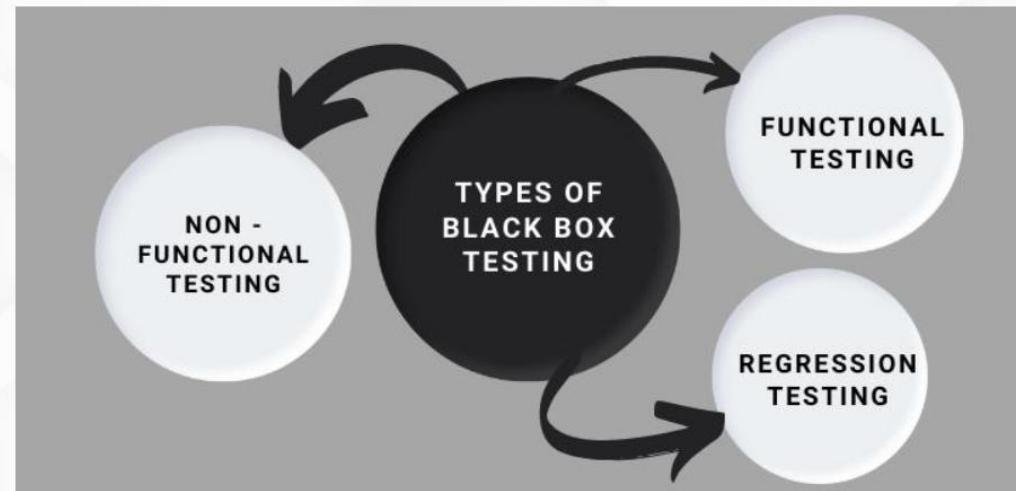
## Black Box Testing

Black Box Testing



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## Types of Black Box Testing



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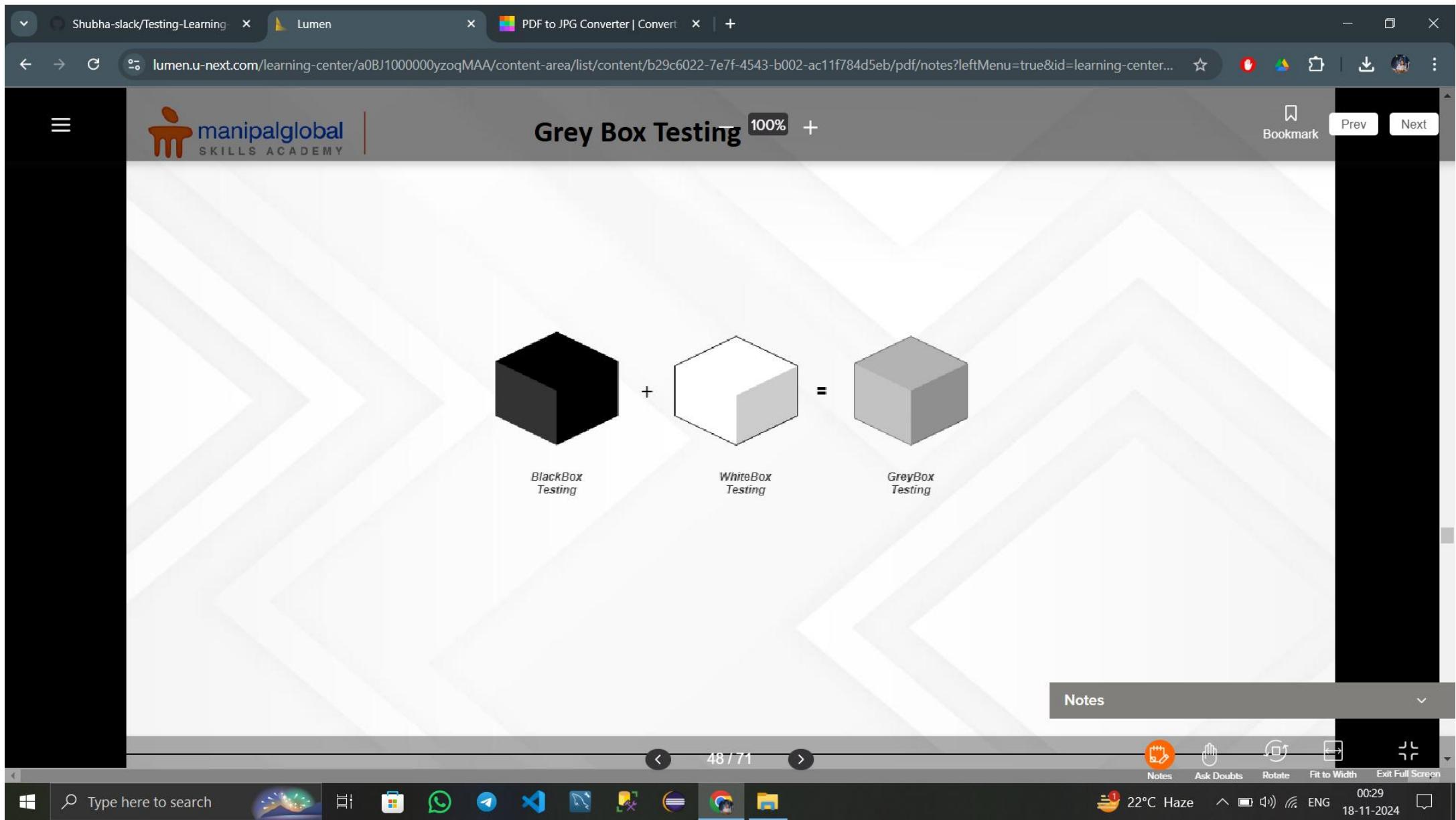
## Grey Box Testing

The diagram shows three cubes arranged horizontally. The first cube is solid black and labeled "BlackBox Testing". The second cube is a wireframe outline with one face filled gray and labeled "WhiteBox Testing". The third cube is solid gray and labeled "GreyBox Testing". Between the first two cubes is a plus sign (+), and between the second and third cubes is an equals sign (=), visually representing the formula: *BlackBox Testing* + *WhiteBox Testing* = *GreyBox Testing*.

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## Automation Testing

- In automation testing, the test automation engineer will write the test script or use the automation testing tools to execute the application. On the other hand, in manual testing, the test engineer will write the test cases and implement the software based on written test cases.
- In test automation, the test engineer can execute repetitive tasks and other related tasks. In manual testing, it is a tedious process to implement the repetitive take again and again.
- In other words, we can say that the main concentration of test Automation is to change the manual human activity with systems or devices.
- The automation testing process is a time-saving process as it spends less time in exploratory testing and more time in keeping the test scripts whereas enhancing the complete test coverage.



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## Smoke Testing

- Smoke Testing comes into the picture at the time of receiving build software from the development team. The purpose of smoke testing is to determine whether the build software is testable or not. It is done at the time of "building software." This process is also known as "Day 0".
- It is a time-saving process. It reduces testing time because testing is done only when the key features of the application are not working or if the key bugs are not fixed. The focus of Smoke Testing is on the workflow of the core and primary functions of the application.
- Testing the basic & critical feature of an application before doing one round of deep, rigorous testing (before checking all possible positive and negative values) is known as smoke testing.
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## Smoke Testing

Initial Builds when the software is relatively unstable

BUILD 1  
BUILD 2  
BUILD 3  
•  
•  
•

Verifies critical functionalities like Application starts successfully ?

Smoke Testing

Test Pass ?

YES

System and / or Regression Testing

Relatively Stable Builds after multiple rounds of regression tests.

BUILD 30  
BUILD 31  
BUILD 32  
•  
•  
•

Sanity Testing

Verifies new functionality, bug fixes in the build

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## Sanity Testing

- **Sanity testing is performed on stable builds, and it is also known as a variant of regression testing.**
- **Sanity testing is performed to make sure that all the defects have been solved and no added issues come into the presence because of these modifications.**
- **The primary aim of executing the sanity testing is to define that the planned features work evenly as expected. If the sanity test fails, the build is refused to save the costs and time complexity in more severe testing.**
- **The execution of sanity testing makes sure that new modifications don't change the software's current functionalities.**
- **It also validates the accuracy of the newly added features and components.**

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## Regression testing

- Regression Testing is nothing but a full or partial selection of already executed test cases that are re-executed to ensure existing functionalities work fine.
- This testing is done to ensure that new code changes do not have side effects on the existing functionalities. It ensures that the old code still works once the latest code changes are done

### Selecting test cases for regression testing

- Test cases which have frequent defects
- Functionalities which are more visible to the users
- Test cases which verify core features of the product
- Test cases of Functionalities which has undergone more and recent changes
- All Integration Test Cases
- All Complex Test Cases
- Boundary value test cases
- A sample of Successful test cases
- A sample of Failure test cases

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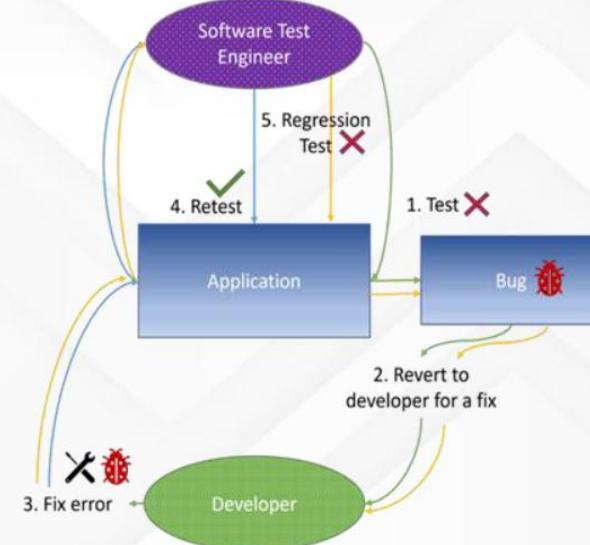


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## Retesting testing

- **Re-testing is executing a previously failed test against new software to check if the problem is resolved.**
- **After a defect has been fixed, re-testing is performed to check the scenario under the same environmental conditions.**



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## Differences between Regression and Retesting Testing

Regression Testing	Retesting
Involves testing a <i>general area</i> of the software.	Involves testing a <i>specific feature</i> of the software.
Is about testing software which <i>was</i> working, but now, due to updates, <i>might not</i> be working.	Is about testing software which <i>know was not</i> working, but which you believe to have been fixed. You test it to confirm that it is now in fact fixed.
<i>Is ideal</i> for automation as the testing suite will grow with time as the software evolves.	<i>Is not ideal</i> for automation as the case for testing changes each time.
Should <i>always</i> be a part of the testing process and performed each time code is changed and a software update is about to be released.	Is <i>only</i> a part of the testing process if a defect or bug is found in the code.

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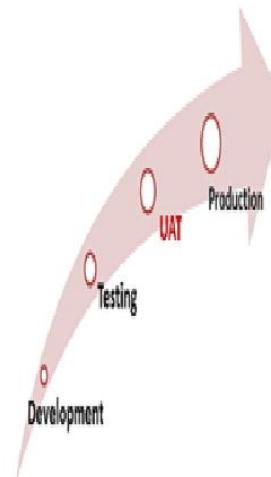
## User acceptance Testing

- User Acceptance Testing (UAT) is a type of testing performed by the end user or the client to verify/accept the software system before moving the software application to the production environment.
- UAT is done in the final phase of testing after functional, integration and system testing is done.
- The main Purpose of UAT is to validate end to end business flow. It does not focus on cosmetic errors, spelling mistakes or system testing. User Acceptance Testing is carried out in a separate testing environment with production-like data setup. It is kind of black box testing where two or more end-users will be involved.
- UAT is performed by –
  - Client
  - End users

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## User acceptance Testing



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## Negative Testing

**Performing the Testing on the application with negative data or invalid data is called Negative Testing.**

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## Positive Testing

**Performing the Testing on the application with positive data or valid data is called Positive Testing.**

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## Exploratory Testing

**Performing testing on the software application Parallelly be learning domain knowledge is called Exploratory Testing. We are performing Exploratory Testing in project only when the resource is shifting from one domain to another domain.**

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## $\alpha$ -Testing (Alpha Testing)

Performing testing on the application directly by the client is called Alpha Testing

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**β-Testing (Beta Testing)**

Preforming testing on the application directly by the client like people is called Beta Testing.(Enduser)

Alpha testing is suitable for projects and beta testing is suitable for products.

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This screenshot captures a presentation slide titled "β-Testing (Beta Testing)" from the Manipal Global Skills Academy. The slide defines Beta Testing as performing testing directly on the application by the client (Enduser). It contrasts this with Alpha testing, which is suitable for projects. The presentation is part of a larger course, as indicated by the navigation buttons at the bottom. The browser window also shows other tabs and the Windows taskbar at the bottom.

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## Perfomance Testing

**Performance is nothing but the response time of the application as per the action we made it.**

**Performance Testing is a software testing process used for testing the speed, response time, stability, reliability, and resource usage of a software application under workload.**

**It is the process of determining the speed, effectiveness, reliability, scalability, and other important features and elements of the system. Moreover, it is also used to compare two or more applications as well as to evaluate their system speed, data transfer rate, bandwidth, and more.**

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## Integration Testing

**Integration Testing is level of software testing process, where individual units of an application are combined and tested.**

**Individual software are combined and tested.**

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## VAPT and PT testing

### What is VAPT ?

**Vulnerability Assessment (VA) refers to tools used to detect, classify, and score defenselessness in a system.**

**penetration testing (PT) refers to vulnerability exploitation to determine severity, authenticity, and potential for causing damage to a business.**

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## VAPT and PT testing

### What are the types of Vulnerable Assessments (VA)?

- Network and Wireless Assessment**
- Host Assessment**
- Database Assessment**
- Application Scans**

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## VAPT and PT testing

**What are the types of Vulnerable Assessments (VA)?**

**Network and Wireless Assessment**

**Host Assessment**

**Database Assessment**

**Application Scans**

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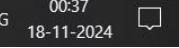
## VAPT and PT testing

### What tools are necessary for Vulnerability Assessment (VA)?

#### Vulnerability Assessment tools are:

- Nessus
- Nikto
- SAINT
- OpenVAS, etc.

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## VAPT and PT testing

**Penetration Testing refers to the ongoing extortion of the vulnerabilities that regulate the severity, authenticity, and level of inducing deterioration and other observations.**

**It involves manual interpretation than automatic detection.**

**Penetration Tests can even safeguard against fake project works.**

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## PT testing

### What are the types of Penetration Testing (PT)?

- Network Services**
- Web Application**
- Client Side**
- Wireless**
- Social Engineering**
- Physical Penetration Testing**

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## PT testing

### What tools are necessary for Penetration Testing (PT)?

Penetration Testing tools are:

- Qualys
- Core Impact
- Metasploit, etc.

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