SESSION – 2

Types of Testing

* Types of software testing: Two types

1. Manual testing
2. Automation testing
3. **What is manual testing?**

Manual testing includes testing software manually without using any automated tool or script.

1. **What is automated testing?**

Automation testing which is also known as test automation, is when the tester writes scripts and uses another software to test the product.

* Types of Manual testing: Six types

1. Black box testing
2. White box testing
3. Unit testing
4. Integration testing
5. System testing
6. User Acceptance testing
7. **What is black box testing?**

Black Box testing is a type of software testing in which the tester is not concerned with the internal knowledge or implementation details of the software but rather focuses on validating the functionality based on the provided specifications or requirements.

* It is high-level testing
* Main testing is done by the tester
* It is a functional testing.

1. **What is white box testing?**

White box testing is a software testing technique that involves testing the internal structure and workings of a software application.

* It is low-level testing
* Testing done by the programmer
* It is a non-functional test.

1. **What is unit testing?**

Unit testing is the process where you test the smallest functional unit of code.

1. **What is integration testing?**

* Integration testing is the process of testing the interface between two software units and modules.
* It focuses on determining the correctness of the interface.
* The purpose of integration testing is to expose faults in the interaction between integrated units.

1. **What is system testing?**

* System testing is also referred to as system-level testing or system integration testing.
* In this testing we can test the whole application done by tester.
* Main Aim:

Improved product quality

Error reduction

Cost savings

Security

Customer satisfaction.

1. **What is user acceptance testing?**

User acceptance testing is a critical phase in the software development process life cycle where the software or application is tested by the end user to ensure that it meets their needs and is ready for production release the UAT testing process helps validate that the system functions correctly and is user friendly.

In contrast, the UAT involves testing done by end users.