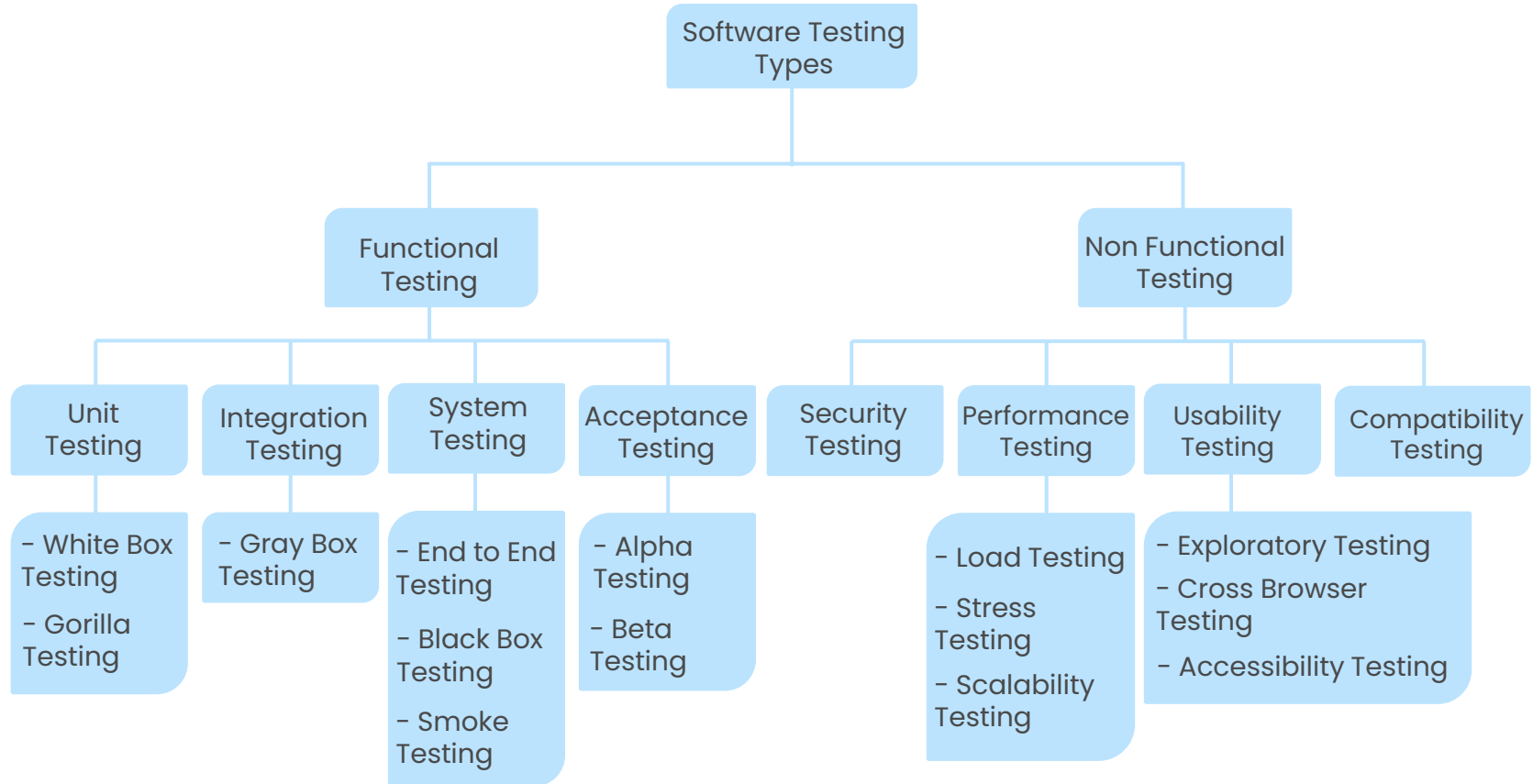
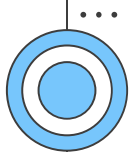


# Professional Software Testing & Quality Assurance

Instructor  
**Parvez Hossain**





# Security Testing

Security testing is done to check how the software or application is **secure from internal and external threats**.

- ❖ How secure & strong the **authorization and authentication processes** are.
- ❖ Security means **authorized access is granted** to protected data and **unauthorized access is restricted**.

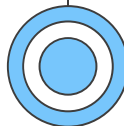
## Authorization:

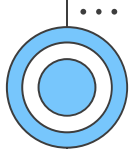
It is the process of defining that a **client is permitted to perform an action** and also receive the services.  
**“What You Can Do”**

## Authentication:

The authentication process comprises **confirming the individuality of a person \ user**.  
**“Who You Are”**

...





# Performance Testing

Performance testing is testing of an application's **stability and response time** by applying load.

- ❖ Stability means the **ability of the application to withstand in the presence of load**.
- ❖ Response time is **how quickly an application is available to user**.

## Load Testing:

It's the testing of an application's stability and response time by applying load, which is equal to or less than the designed number of users for an application.

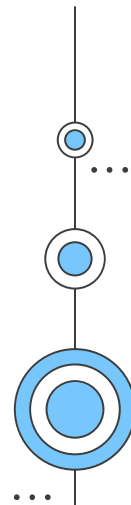
## Stress Testing:

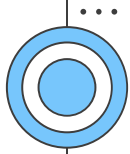
It's the testing of an application's stability and response time by applying load, which is more than the designed number of users for an application.

## Scalability Testing:

It's the testing of an application's stability and response time by applying load, which is more than the designed number of users for an application.

\*\* Gradually increase the number of users to find out **where exactly the application is crashing** \*\*





# Usability Testing

Usability testing is testing an application from the user's perspective to **check the look and feel and user-friendliness**.

## Exploratory Testing:

Exploratory testing is **informal testing** performed by the testing team. The objective of this testing is to **explore the application and look for defects** that exist in the application.

## Cross browser Testing:

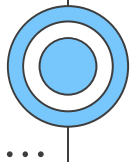
Cross browser is **testing an application on different browsers, operating systems, mobile devices to see look & feel and performance**. The goal of this testing is to **get good user experience** in all of the devices and browsers.

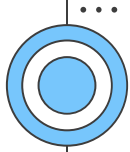
## Accessibility Testing:

The aim of accessibility testing is to determine whether the software or application is accessible for disabled people or not.

\*\* Here, **disability means color blindness, old age, blind** and other disabled groups\*\*

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# Other Types of Testing

## Compatibility Testing:

This is a testing in which it validates how **software behaves and runs in different environment, web services, hardware and network environment.**

## Database Testing:

Whenever an input or **data is entered on the front-end application, it is stored in the database** and the testing of such database is known as Database Testing or Backend Testing.

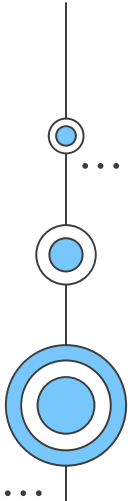
- Database testing involves testing of table structure, schema, data structure an so on.
- Testers can easily **verify data by running few queries** on the database.

## Regression Testing:

Regression testing is **testing of unchanged features** of the application to make sure that **any bug fixes, adding new features, deleting or updating existing features are not impacting the working application.**

- Tester need to find out the area of application where changes happened and the impact of those changes on the entire application.

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# Thanks!

Do you have any questions?

Email: [parvez9605@gmail.com](mailto:parvez9605@gmail.com)

WhatsApp: +88 01772880239