Manual Testing
Session-4

System Testing Types

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┌─────────────────────────────┐
│       System Testing        │
└─────────────────────────────┘
    │
    │    ┌─────────────────────────────┐
    ├───→│         GUI Testing         │
    │    └─────────────────────────────┘
    │
    │    ┌─────────────────────────────┐
    ├───→│       Usability Testing     │
    │    └─────────────────────────────┘
    │
    │    ┌─────────────────────────────┐
    ├───→│      Functional Testing     │
    │    └─────────────────────────────┘
    │
    │    ┌─────────────────────────────┐
    └───→│       Non-Functional        │
         │          Testing            │
         └─────────────────────────────┘
```
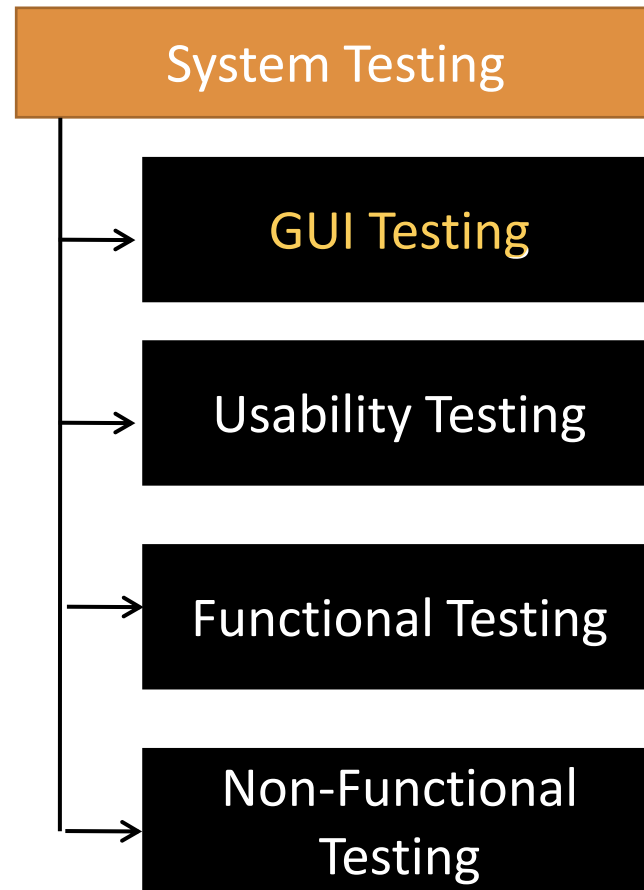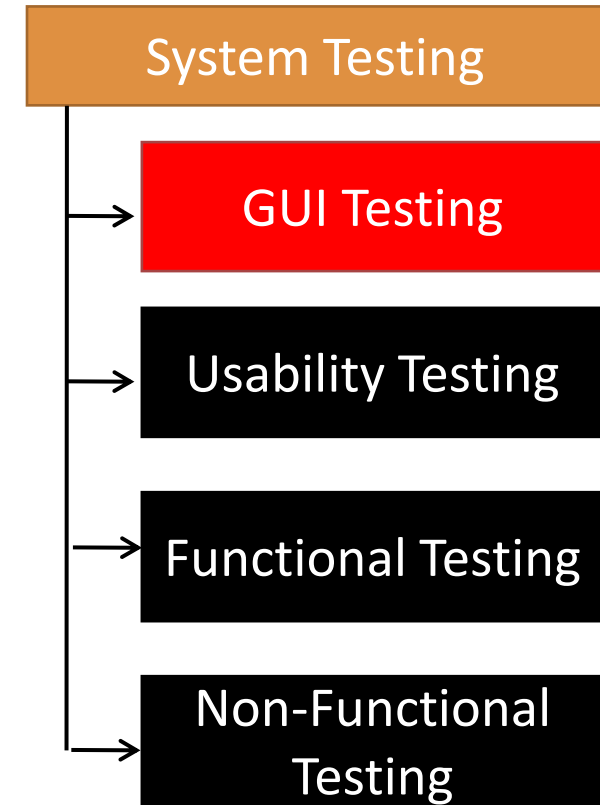
What is GUI Testing?

- **Graphical User-interface Testing** or **GUI testing** is a process of **testing** the user interface of an application.

- A **graphical user interface** includes all the elements such as menus, checkbox, buttons, colors, fonts, sizes, icons, content, and images.

| System Testing |
|:---:|
| GUI Testing |
| Usability Testing |
| Functional Testing |
| Non-Functional Testing |

GUI Testing Checklist

- Testing the size, position, width, height of the elements.
- Testing of the error messages that are getting displayed.
- Testing the different sections of the screen.
- Testing of the font whether it is readable or not.
- Testing of the screen in different resolutions with the help of zooming in and zooming out.
- Testing the alignment of the texts and other elements like icons, buttons, etc. are in proper place or not.
- Testing the colors of the fonts.
- Testing whether the image has good clarity or not.
- Testing the alignment of the images.
- Testing of the spelling.
- The user must not get frustrated while using the system interface.
- Testing whether the interface is attractive or not.
- Testing of the scrollbars according to the size of the page if any.
- Testing of the disabled fields if any.
- Testing of the size of the images.
- Testing of the headings whether it is properly aligned or not.
- Testing of the color of the hyperlink.
- Testing UI Elements like button, textbox, text area, check box, radio buttons, drop downs ,links etc.
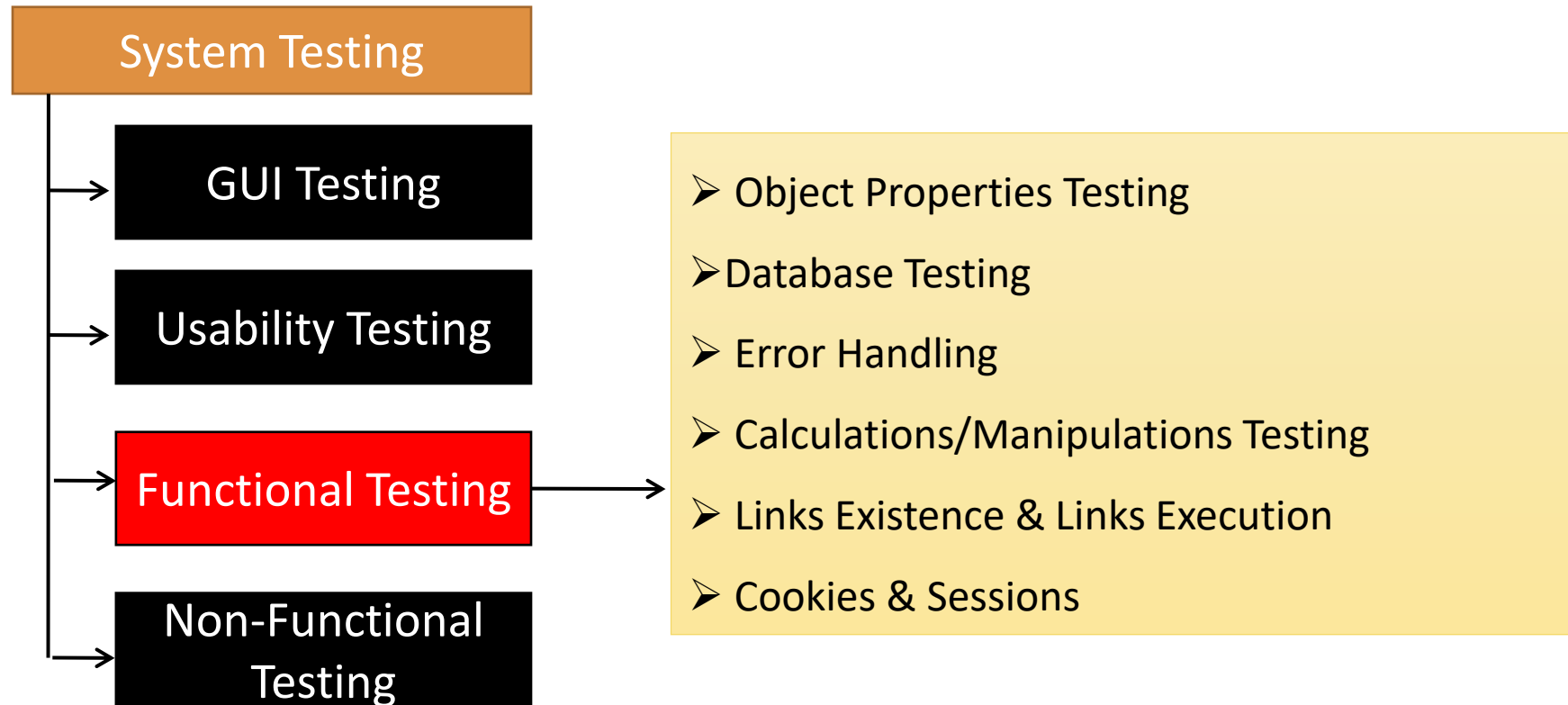
Usability Testing

- During this testing validates application provided context sensitive help or not to the user.

- Checks how easily the end users are able to understand and operate the application is called usability testing.
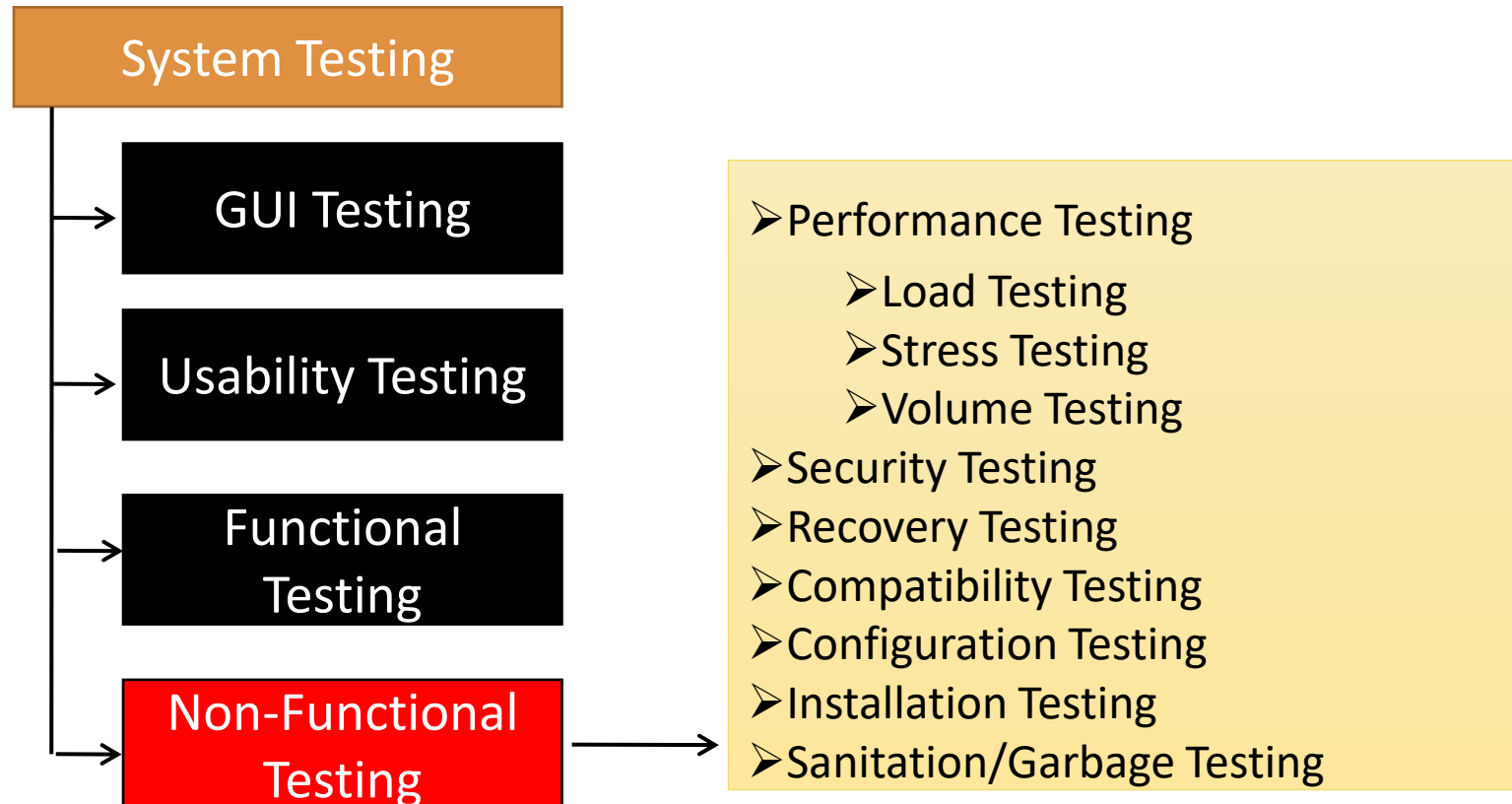
System Testing
GUI Testing
Usability Testing
Functional Testing
Non-Functional Testing
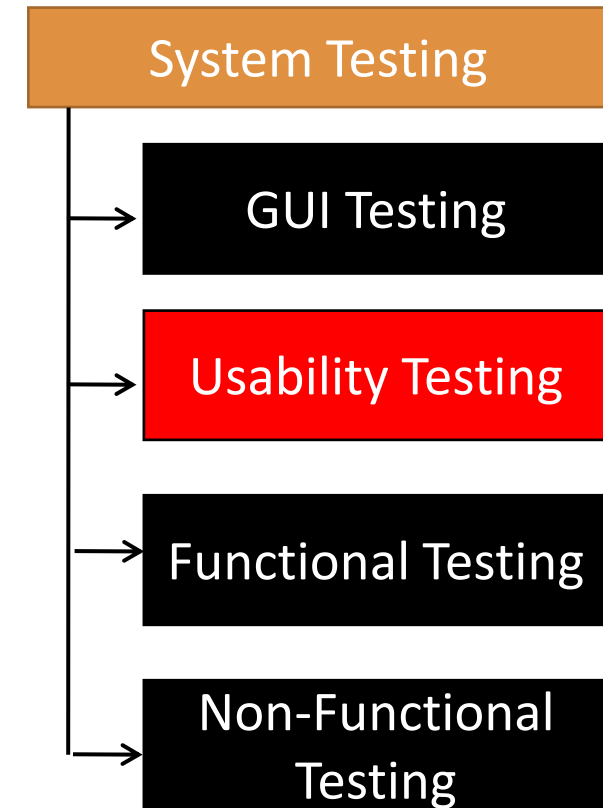
Functional Testing

▪ Functionality is nothing but behavior of application.

▪ Functional testing talks about how your feature should work.

System Testing

GUI Testing

Usability Testing

Functional Testing

Non-Functional Testing

➢ Object Properties Testing

➢Database Testing

➢ Error Handling

➢ Calculations/Manipulations Testing

➢ Links Existence & Links Execution

➢ Cookies & Sessions

Non-Functional Testing

- Once the application functionality is stable then we do Non-Functional testing.

- Focus on performance, load it can take and security etc.

System Testing

GUI Testing

Usability Testing

Functional Testing

Non-Functional Testing

➢ Performance Testing
 ➢ Load Testing
 ➢ Stress Testing
 ➢ Volume Testing
➢ Security Testing
➢ Recovery Testing
➢ Compatibility Testing
➢ Configuration Testing
➢ Installation Testing
➢ Sanitation/Garbage Testing

Functional Testing Vs Non-Functional Testing

Functional Testing	Non-functional Testing
- Validates functionality of Software. - Functionality describes what software does. - Concentrates on user requirement. - Functional testing takes place before Non-functional testing.	- Verify the performance, security, reliability of the software. - Non-Functionality describes how software works. - Concentrates on user expectation. - Non-Functional testing performed after finishing Functional testing.