

Softskill Keywords

Questions & Answers from this topic:

- What are the application **software types** ?
- What are the **three layers** of software?
- Who works in the **business department**?
- Can you give several examples of the **functionalities** in any software?
- Can you give several examples of the **non-functionalities** in any software?
- What type of tester will you be after the Cydeo-SDET course?

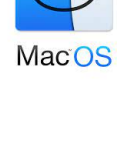
What is Software?

Definition: Set of instructions that perform specific task for users. Softwares are designed to help people to perform activities.

Types of Software

1. System Software

Operating System (OS)



2. Application Software

Web Based App

Mobile App

Desktop App

Hybird App

1. WebBased Application: Web apps are **accessed over network connections** using HTTP/HTTPS with any browser (Safari, Chrome, IE, Firefox, etc.)



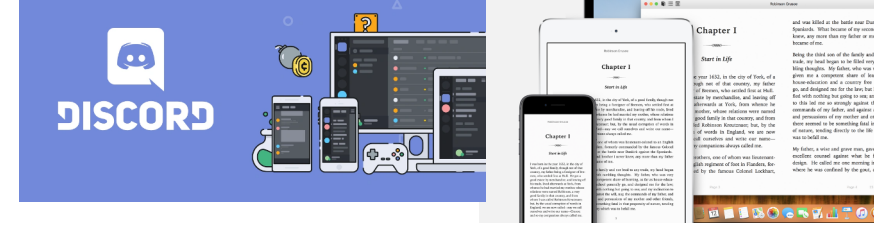
2. Mobile Application: Mobile apps are designed to run on **mobile** devices such as phones, tablets, or watches.



3. Desktop Application: Desktop apps that you download and install on your device / on any Operating system (Mac OS, Windows, Linux)

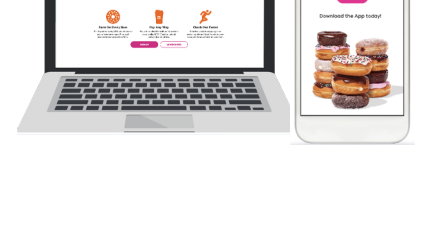


4. Cross-Platform/Hybrid Application: Cross-platform software works on multiple Operating Systems(OS) or devices.



Software Layers (3)

FrontEnd, DataBase, API



1.Front-End / User Interface (UI)

Back-End

Functional: Functionality of a software describes **what a software should do**, or should not do.

Example: Users login. logout, uplaod files, edit username, click confirmation button, zoom in/out, etc

Non-Functional: Non-functional specify **how the software should do behave**.

Example: Respons time: user should download a file min-5seconds - max 35 secodns.

Accessiblity : Web, mobile, ipad, etc

Installation: How to install? available browsers?

Performance: How fast does it need to operate?

Security: What are the security requirements? a cyber perspective

Departments in IT industry

CEO / President

Managers

Human Resource

HR Manager

HR members

Desktop Support

Business

Project Managers (PM)

Product Owner (PO)

Business Analyst (BA)

IT

Development Team

Performance Team

Security Team

Operations Team

Designers

Marketing

Managers

Develoeprs & QA/SDET

Performance Engineers

Cyber Security Engineers

DevOps Engineers

Software Developers

FrontEnd Dev

Back-End Dev

Full-stack Dev

Software Testers

• **Functional Testers**

▪ FrontEnd Tester

▪ BackEnd Tester

▪ **Full-Stack Tester (YOU)**

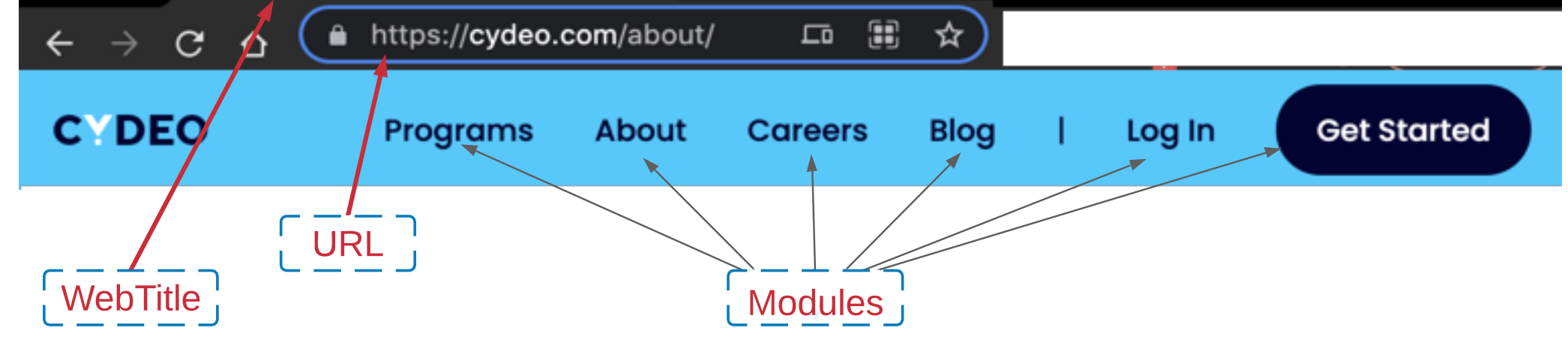
• **Non-Functional Testers**

▪ Performance testers

As a Tester, your title at work could be:

1. **SDET** (Software Development Engineer in Test)
2. **QA** (Quality Assurance)
3. Software Tester
4. Automation Tester
5. QA Tester
6. Software Test Engineer
7. QA Automation Engineer
8. QA Engineer
9. Automation Test Engineer
10. Test Automation Engineer
11. Software Engineer in Test

Module, Function, Feature



URL: URL stands for Uniform Resource Locator. URL is the address of a given unique resource on the Web.

Web Title: A website title identifies what the web page is about for both web users and search engines.

Module: A unit or component of a software, each module iinclude one or more features of the app.



There are 6 modules on the Cydeo website

Feature: Behavior of a software, what users can do with the app?

Function:how to achieve a feature, what actions users can perform on the app? (Click, zoom in & out, select, scroll page, enter/type a value, upload/download a file, video & voice call, etc)

Example 1 :

Feature: Customers **search** for the different **programs** from the website.

Functions : A user click "Programs" module

User scroll down untill see "our programs"

User view detail info of different programs.

Example 2:

Feature: Customers **apply** to a program/course

Functions : user click "Get Started" module

user fill in the application information form

user submit the form