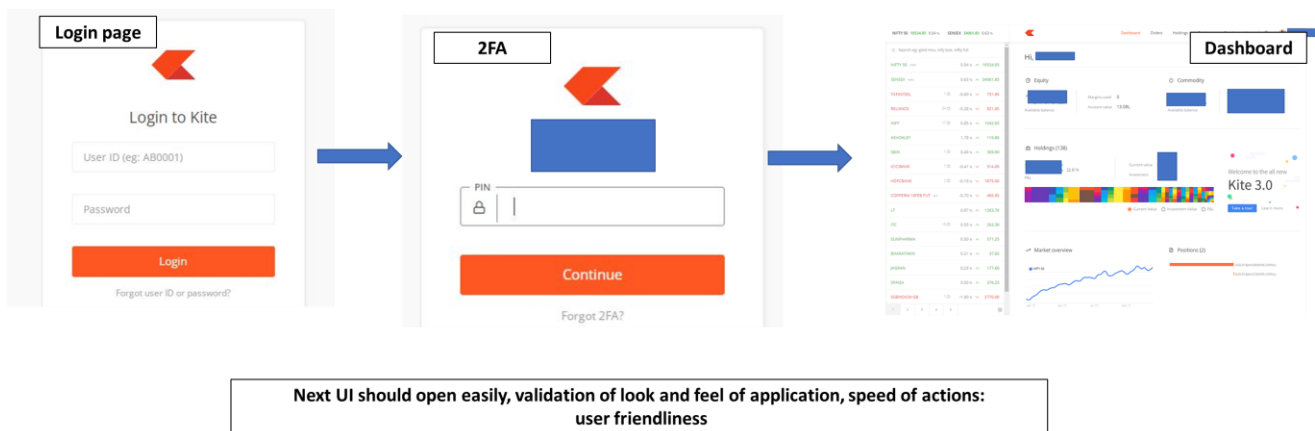# Kite website

Task: How a tester will perform a) usability b) security c) performance testing on kite application?
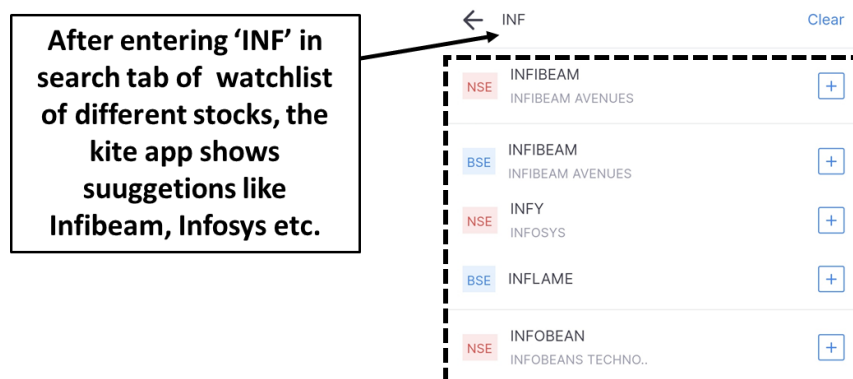
A) Usability testing: As a tester, we **validate user friendliness of the application** / build as per real end user point of view. It is also called as **accessibility or GUI testing.** we validate **how many steps** this application is taking as well **as how much time** this application / system is taking to complete task. We use **NVDA tool / WAT tool**- web accessing tool bar. There are 2 types of usability testing:**1) Graphical user interface testing 2) Manual support testing**

    1) Graphical user interface (GUI) testing: In this testing we validate **a)** We observe / validate, all the **UI, font, color, resolution etc. b)** on click, next action should be performed immediately **c)** Speed of interface in application.
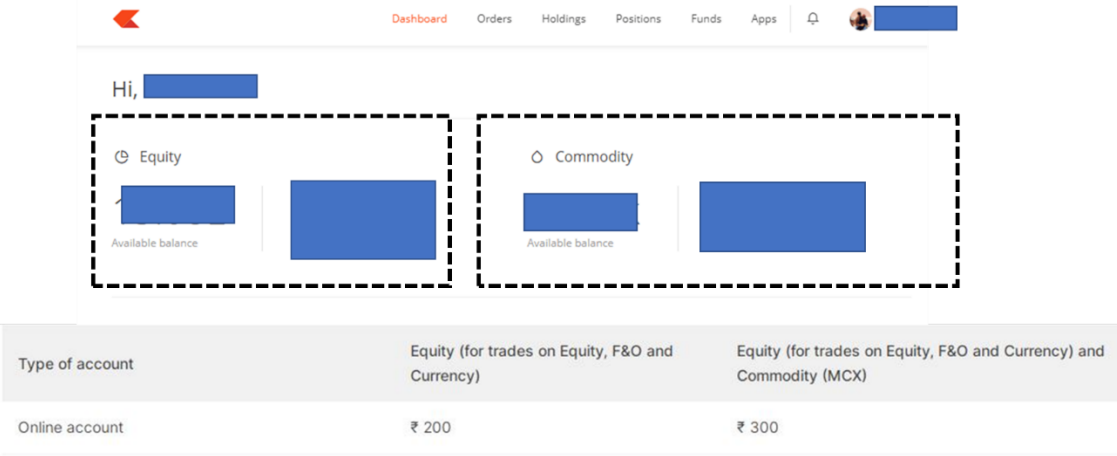   **Example in Kite app:**

Next UI should open easily, validation of look and feel of application, speed of actions: user friendliness

    2) Manual support testing: It is process of checking context sensitiveness of user manual input. It is also called regular expression testing. Eg. Kite app:

After entering 'INF' in search tab of watchlist of different stocks, the kite app shows suuggetions like Infibeam, Infosys etc.

B) Security testing: Testers validate, **whether application is secured or not.** Testers validate, whether **users' information data, operation are secured or protected or not. There are 3 types of testing: 1) Authentication:** Testers validate, user is valid/registered/authorized or not. **2) Access control:** Tester validate, whether authorized user has permission to access & perform specific operation or not 3) Encryption & Decryption: Developers are involved there. Encryption is the process of converting normal message into unreadable format. Decryption is the process of converting meaningless message into its original format. **Example Kite app:**

C) Performance Testing: In this testing, tester check the speed of processing of our build / application with and without load. Performance test engineer (separate team) conduct this testing. They use **load runner & Jmeter** tool for this testing.

For example, in Kite applications if there will be sudden rush of buyers for a particular stock at lower price then tetser need to perform **Spike testing.** For normal anticipated conditions **load testing** will be done and for extreme conditions **stress testing** should be done. As number of users of kite are increasing day by day i.e. application is becoming small to large scale, tester need to do **scalability testing.** Under large number of data populated over kite application, how it behaves will be tested using **volume testing.**