Frame work -

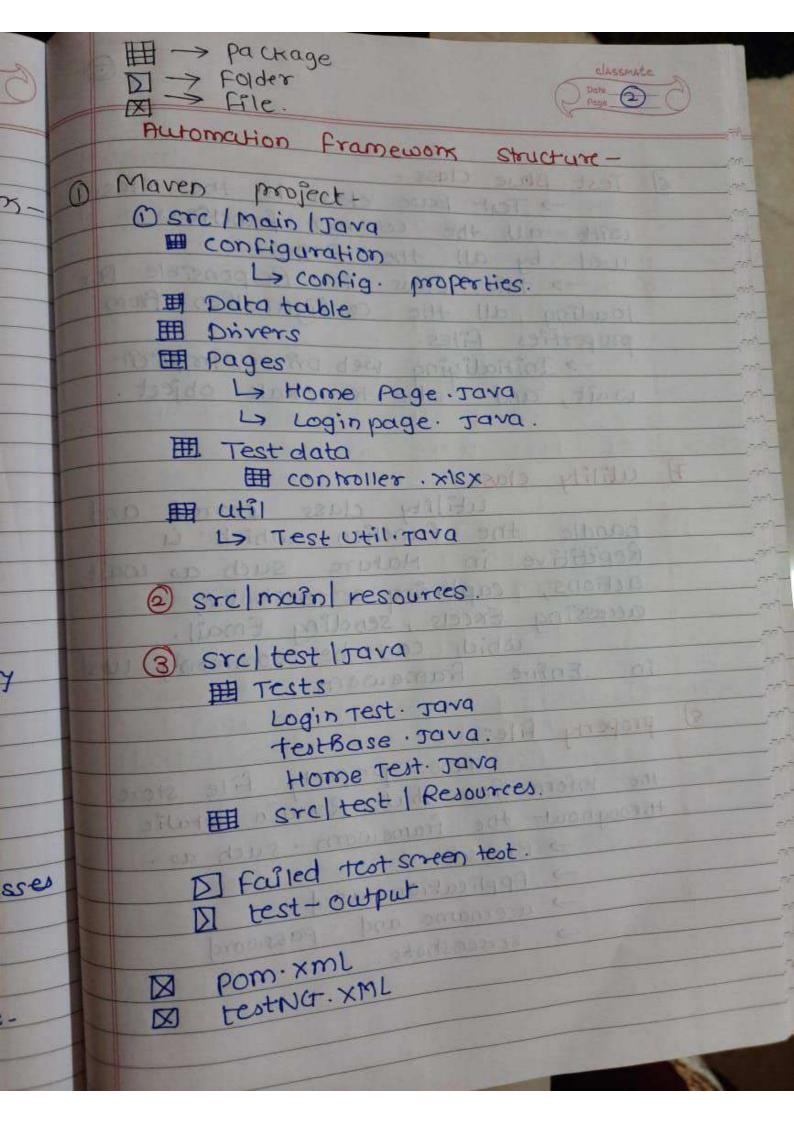* How to Explain Automation framework question -

1)→ In our Selenium project we are using Java language.

2) In our project, we are using Data Driven framework, by using page Object model, Design pattern with page Factory.

3) As per page object Model, we have Maintained a class for Every web Page.

4) Each web page has a separate class and that class holds the functionality and members of that web page. we used separate classes for Every Individual Test.

5) we have separate package for pages and Tests.
   → So, All web page Related classes comes under Pages, packages.

   → And All the Test Related classes comes under Test package.

⊞ → Package
◲ → Folder
⊠ → File

Automation Framework structure —

① Maven project -

  ⓵ src / Main / Java

    ⊞ configuration
      ↳ config. properties.

    ⊞ Data table

    ⊞ Drivers

    ⊞ Pages
      ↳ Home Page . Java
        ↳ Login page . Java .

    ⊞ Test data
      ⊞ controller . xlsx

    ⊞ util
      ↳ Test util . Java

  ② src / main / resources .

  ③ src / test / Java
    ⊞ Tests
      Login Test . Java
      testBase . Java .
      Home Test . Java
    ⊞ src / test / Resources .

    ◲ failed test screen test .
    ◲ test - output

  ⊠ pom . xml
  ⊠ testNG . xml

6] Test Base Class —

→ Test Base class is the class with all the common functions used by all the pages.

→ this Class is Responsible for loading all the configuration from properties files.

→ Initializing web Driver, Implicit wait, and also to create object.

7] utility class —

utility class stored and handle the function which is Repititive in Nature such as wait, actions, capturing screenshots, accessing Excels, sending Email.

which can be commonly used in Entire framework.

8] property file :-

these property file store the information that Remain static throughout the framework - such as -

→ Browser
→ Application used
→ username and password
→ screenshots.

9) screen shots -

→ screen shots will be captured and stored in separate folder.

→ Along with this screenshots of failed Test cases will be added in Exten Report.

10) Test Data -

All the Test Data will be kept in Excel sheet.

we use Apache POI to handle Excel sheets.

11) Test NG -

we use TestNG for Assertions, Grouping and parallel Execution.

12) Maven -

using Maven for Build Execution and Dependency Purpose.

Integrating TestNG Dependency in pom.xml file

and Running this pom.xml file using Jenkins.

13) version control-
we use Git as a Repository to store our Test script.

14) Jenkins-
By using Jenkins continuous Integration Tool.
   ° we Execute Test cases on Daily Basis.
   ° Test Result will be sent to the peer using Jenkins.

15) Extent Report-
   → for Reporting purpose we are using Extent Report.

   → It Generate. HTML Report, we use the extent Report for Maintaining logs and to include screen shots of failed Test cases in Extent Report.

16) pom-xml →
To add all dependency.

← STLC →

1) In my Organisation Testing process start with Test Initiation stage. In this stage my project manager concentrate on →
   - → Risk of project | Involve.
   - → Scope of project
   - → Requirement of project.

2) After that during Test plan, Team Lead mainly Focus on.
   ① Job Allocation
   ② Resource allocation.
   ③ Estimation.

   Job allocation in Term of
   → what to Test, How to Test,
   → How to Test
   → when to Test
   → who will Test.

3) After that During Test Scenario and Test Design stage.
   Test Engineer execute test cases to validate the functionality.

4) During Execution, if we find any Defect we send it to Development Team. Then Development Team send and fix the Defect. again we test it in Regression Testing this process continue till Defect get close.

5] After Completion of Test Execution we send the Test Report to our Test Lead.

6] During Test closure stage, Team Lead checks wheather all the process are correct or not and then finally TL, Reperon prepare Test Summary Report.

———— x o ———— x o ————