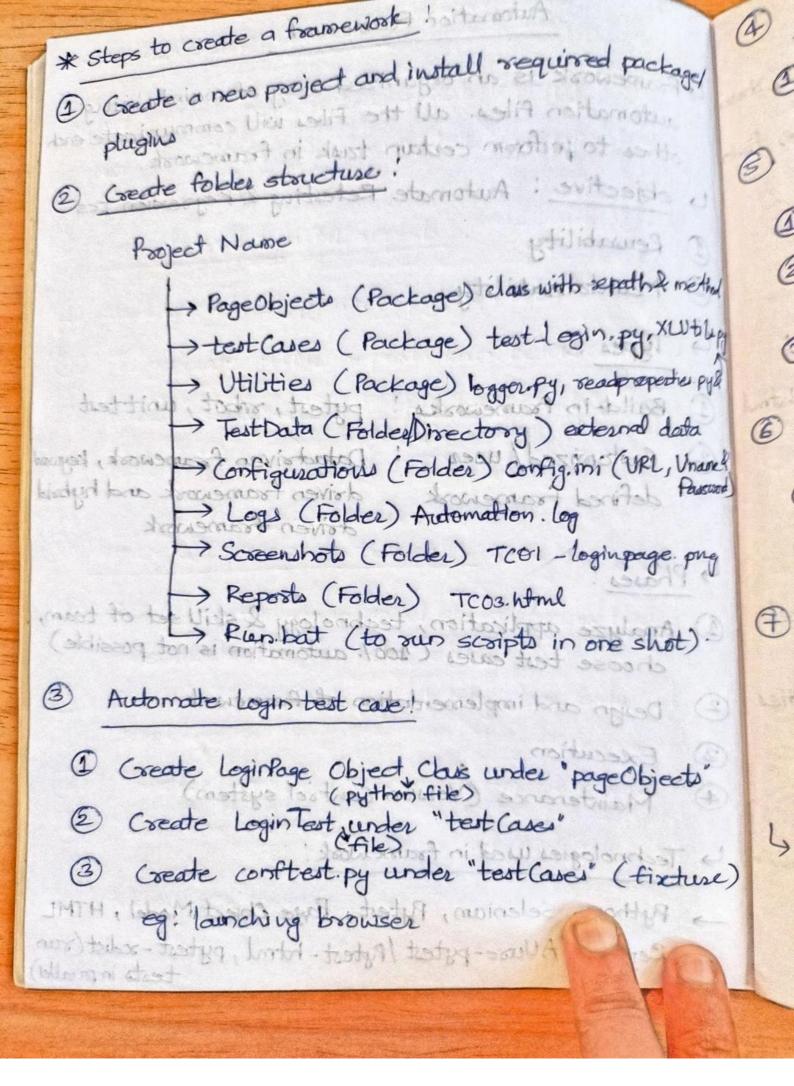
## Automation Framework

- 4 Framework is an organized way of maintaining automation files. all the files will communicate each other to perform certain task in framework.
- 4 objective: Automate Retesting & Regression tos

South topics

- 1 Reusability
- @ Maintainability godosi) dosidoserie
- 4 test (aver ( Package) test of sappy 4
- 1 Build-in frameworks! pytest, robot, unittest
- @ Customized/ user ; Datad siven framework, keywood defined framework driven framework and hybrid > Scorealists (Folder) Tool - 159
- 1 Analyze application, technology & skill set of team, choose test cases (100% automation is not possible)
- Design and implementation of framework
- Execution 3
- Maintenance (Version Control system) Creede Legentert unter "test ases"
- 4) Technologies used in framework!
- -> Python, Selenium, Pytest, Page Object Model, HTML Reports / Allure - pytest / Pytest - html, pytest - xdist (run tests in parallel)



4 Captuse Screenshot ! I slaver or what our of a 1 update Login Test with screenshot under "test(ase" (3) Read common values from ini file! 1 1- 40-41 1 Add "config.ini" file in Configurations folder 2 Create "read Properties. Py" utility file urder utilities package to read common data 3 Replace hard coded values in togin test case (a) Add 'customLogger. Py" under utilities package @ Add logs to login test care that stands Printests on desired browser/coose browser/parallel! 1 update conflect py with required fixtures which will accept command line argument (browser name) 2) Pass browser name as argument in command line. 4 To sun tests on desired browser! that all (1) pytest -s -v test(aves/test\_login.py -- browser chrome pytest -s-v test Cases/test-login. py -- browser firefox

that

lepy

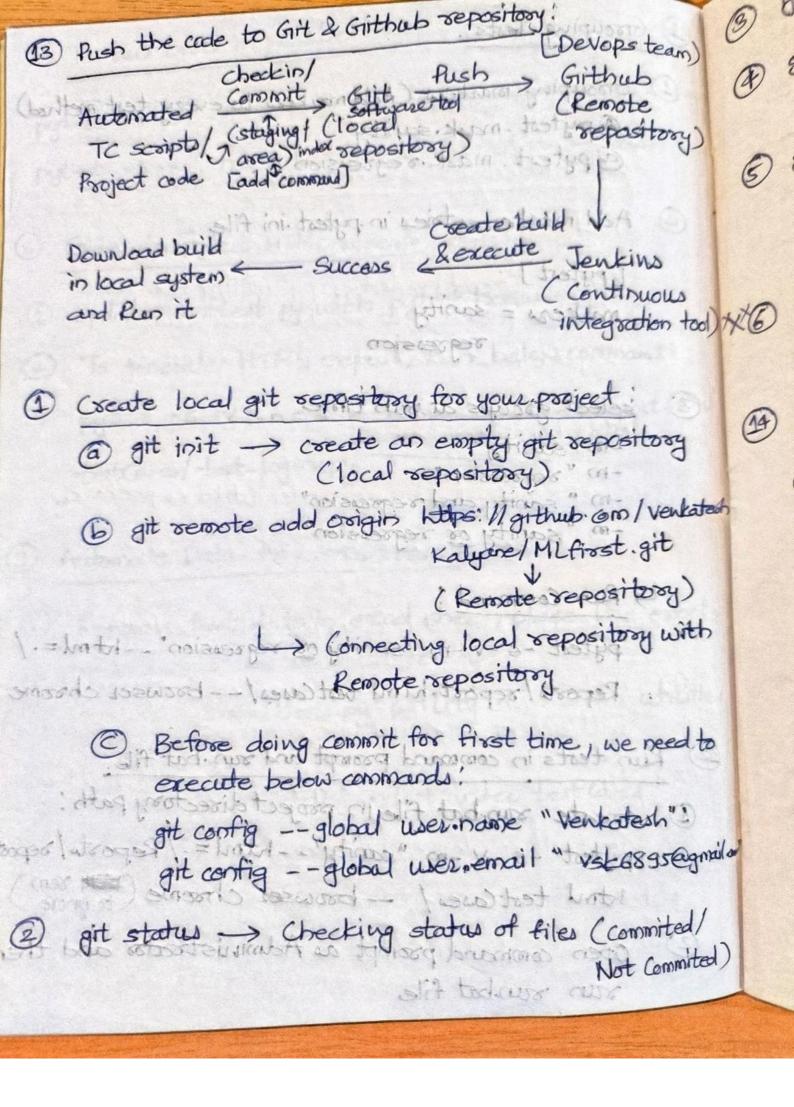
PAS V

pytest -s -v -n=3 test cases/test-login.py -- browse change pytest -s -v -n=3 testCases/test-login.py -- boouser finder

- 8 Gienerate pytest HTML reports!
  - 1 update conflect by with pytest hooks
  - 2) To generate HTML report, Run below command! pytest -s -v -n=3 --html = Reports \ report.html
    --self-contained -html
    testcases / test-login.py -- browser chrome
- a Automate Data-driven test case!
  - 1) Prepage test data in excel sheet, place the excel file inside the testdata folder
- ② Create "Excel Utils.py" utility class under utilities
  package
  - 3 Create Login Data Driven Test under test laves
  - 4) Run the test case was booked no chart and of
- 10 Adding new testcases

0

@ Grouping Tests: duction to the state of th @ Groouping markers (Add markers to every test method) apytest mask sanity apytest mask regression findo @ Add masker entoies in pytest ini file [Pytest] Dieseland build in least agatem - Success masters = sanity In out less regression 3 select groups at our time tip last store staul a git init - secute on emptylinas maint Clocal seignoses m--m "sanity or regression" 4 Run Command! pytest -6 -v -m "sanity ox regression" -- html=./ el Reports / report. html test cases / - - browser chrome Hes Run tests in command prompt and run but file: 1 create sun but file in project directory path: pytest -5 -V -m "canity" -- html= / Reposts/sepost html test cases / - browser chrome (to ignore) 2 Open command prompt as Administrator and then run run.bat file



- 3 git add -A -> Add all files to staging area @ git commit -m " My first commit" -> commit code into git branch - M marter/main git repository (local repository) @ git push -u osigin master/-Push code to github sepository (remote) from git (local) of xi6 git pull -> to pull changes from github to local Pur Tests using Jenkins! Go to http://localhost: 8080 1 New Item -> Enter item name -> Freestyle project Source Code Management -> Git -> Enter seposity Apply & Save = run.bat = Build = Execute windows bootch commands 2) Home -> Manage Jenkins -> Gilobal Tool Config Ender Git path < Git Apply & Save
  - 3 Build Now

stale Element Exception! when element is either delebb DOM (Document Object Model) but not visible on web page. (1) Timeout exception: when a command performing an operation Element Not Visible Exception: when element is present in pointing to any object. this enror can be resolved by wing (8) Null pointer exception: it is thrown when a reference 1 No Such Element Exception; when an element with given drent competely ready aludion: make suse that overbopping element is closed switch to layer that contains the element uniable is accessed (or de-referenced) and is not a try-cold of an it-elve condition to check it a before you try to dick on another element plement isn't loaded completely; all elements you see Webdriver exception (3) No Methresent Exception reference variable is nell before dereferancing it. alution: wait with element is loaded completely attailante is not found on web page. doesn't complete in stipulated time. or no longer attached to DOM. 10 Element is not dictable at point: you want to dick