Problem Statement for Python Selenium Stack

Milestone 1	1. Install WordPress application on a Windows OS based server/ machine/ VM, which would be useful for Mini Project. (For this one VM per group will be given) 2. I/O operations using Python 3. Write python tests to read /write in database and files for Web Application 4. Implement SQL and Gitlab check-in
Application under Test	Word press Web Application
Start Date	23 Sept 2020
End Date	06 Oct 2020
Final Expected Outcome	• Python scripts for Database and file handling • Unit tests for above • Test Reports generated • Logs as applicable • Proper naming convention and all best Practices to be followed • Expectations during evaluation: Present the learnings, challenges faced, process followed, demo of script execution along with report generation.
Deliverables location	• Git-Lab
POC	For project Specific – Varsha Bakshi Technical help: Respective trainer.

Group-wise Problem Statements

Problem Statement:

1) Install WordPress application on a Windows OS based server/ machine/ VM, which would be useful for Mini Project (one VM per group will be given)

2) Create Python project for below activity and create following common functions

   a) Create **csv** for database credentials. Use python script to read from csv.

   b) Use Python scripts and MySQL to do following

       i) **Create database** named as per your group number eg group1 or groupone

           (1) **Create table** "Users"

               to accommodate records for "Username and Passwords" of different users of Word press web application

           (2) **Insert** some sample values

   c) Read Login credentials from above **database**.

   Write to **excel** file and implement with Pytest for validation (Unit Test)

   d) Create a **text** file for configurations and settings

       i) App URL

       ii) Browser details etc

   e) Read configurations and settings from above text file and print it using Python Scripts

3) Details to create project repository using Git/GitLab

   a) Create the local project repository (master by default) with all project related documents in it like requirement document folder and python project folder etc. Also add .gitignore with system generated files and folder (like .class files, metadata folder, remote temp files folder etc.)

   b) Create new remote public repository with same name as local repository on Gitlab and link it with local master repository. Push initial project draft to remote repository.

   c) Keep on check-in your code, post any update/task completion.

Explore below points per group and submit your findings in report

4) Explore how to execute Python scripts using Maven.

5) Explore other build tools specific for Python.

6) Explore how we can have restricted access for a Git repository shared by a project group