Automated Testing with Selenium

About Selenium:

Selenium is a free automated testing framework used to validate web applications across different browsers and platforms. It provides a range of tools and libraries to support browser automation.

About Asana:

Asana is a project management software which allows teams to organize, collaborate, plan and execute tasks. Teams can use asana to keep track of all tasks, collaborate with other team members, exchange related information and more.

1)Test Scenario Identification:

- i. Login Page Authentication: Automated login into asana website using valid credentials.
- ii. Login Page Failure: Automated login into asana website using invalid credentials.
- iii. Creation of a new Project: Automated creation of a new project.
- iv. Deletion of a Project: Automated deletion of a project.
- v.Creation of a new goal: Automated creation of goals.
- vi. Viewing the Settings Page: Automated viewing of settings page.
- vii. Inviting a teammate: Automated invitation to teammates using Link.

All the automated test cases are done using Selenium.

2)Test Script Creation:

Software used: Visual Studio Code

Language used: Python

Libraries Used: Pytest, Webdriver, ChromeDriverManager, Service, By, keys, WebDriverWait, EC

3)Reporting:



Implemented the report using "pytest" which generates an HTML report of all the test cases. The above report indicates that all the functional included have passed the test cases successfully.

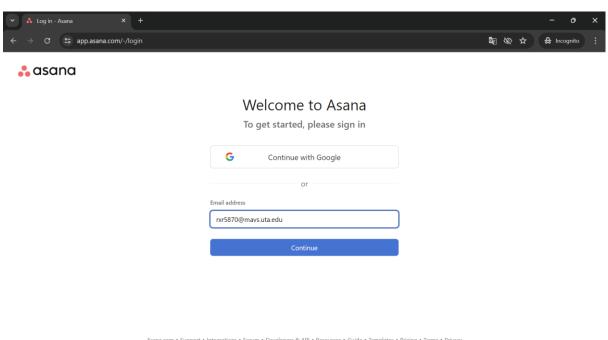
The elements tested are:

- 1) Login Success
- 2) Login Failure
- 3) Create Project
- 4) Delete Project
- 5) Create Goals
- 6) View Settings
- 7) Invite Teammate

4)Test Execution:

i. Login Page Authentication:

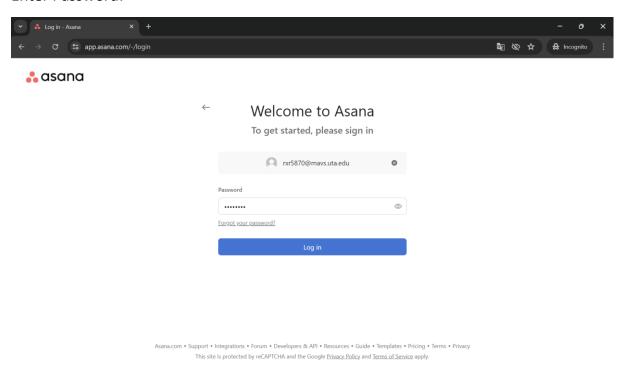
Enter email address:



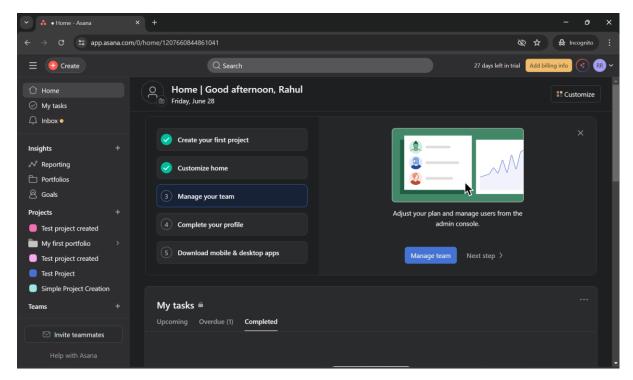
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This site is protected by reCAPTCHA and the Google <u>Privacy Policy</u> and <u>Terms of Service</u> apply.

Enter Password:

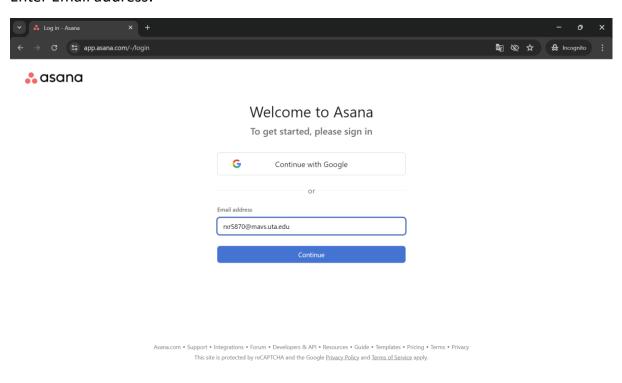


Logged In Successfully:

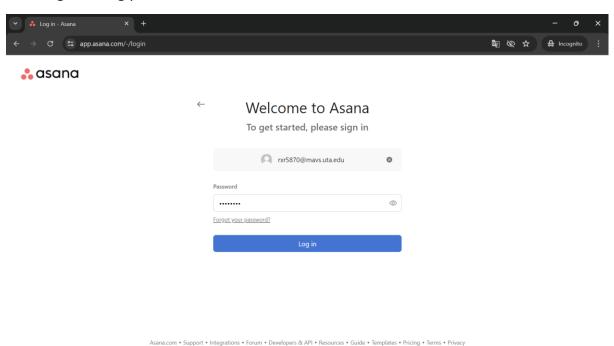


ii. Login Page Failure:

Enter Email address:

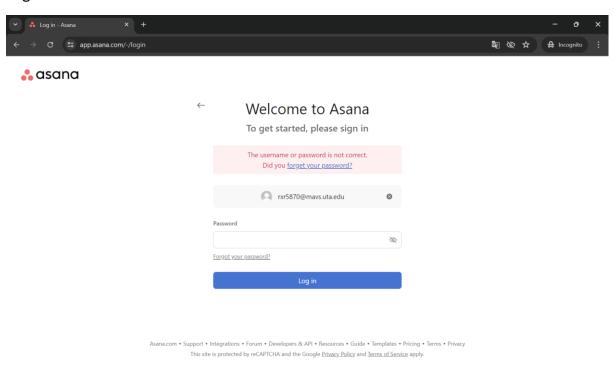


Entering a wrong password:



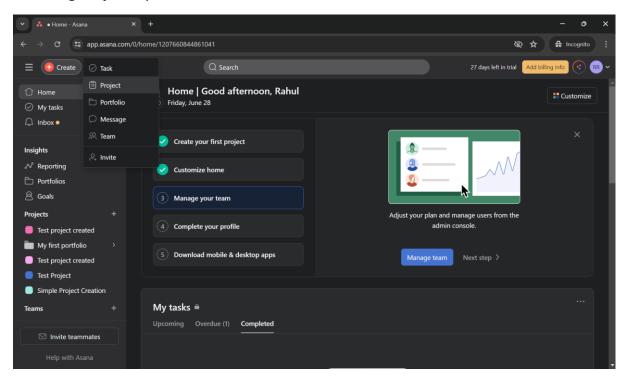
This site is protected by reCAPTCHA and the Google <u>Privacy Policy</u> and <u>Terms of Service</u> apply.

Login Failed:

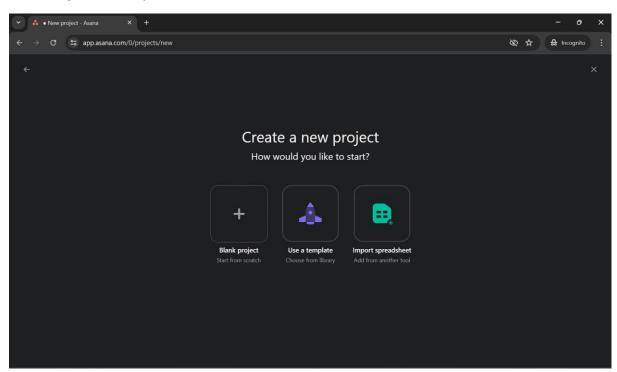


iii. Creation of a new Project:

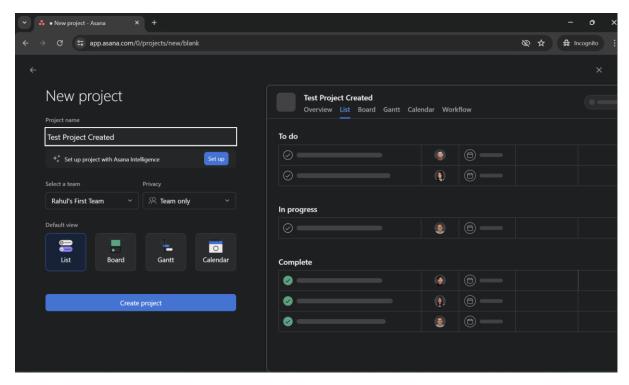
Selecting Project Option under Create:



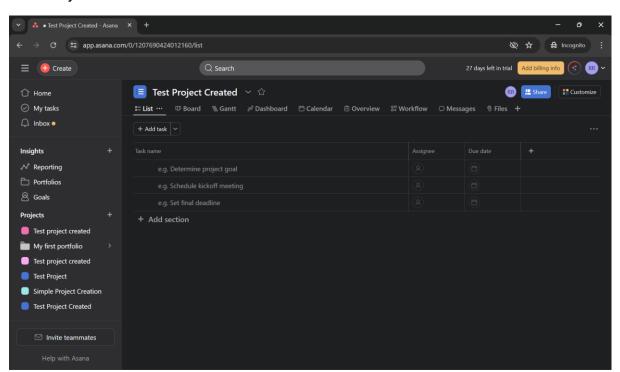
Choosing Blank Project:



Entering "Test Project Created" in the Title:

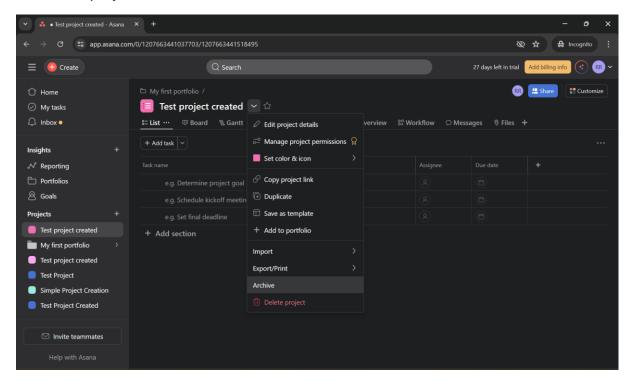


New Project Created:

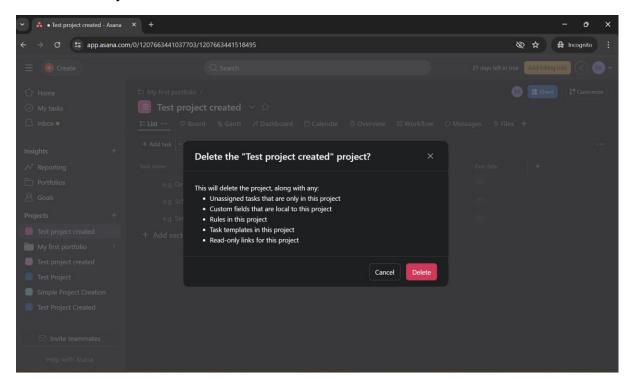


iv. Deletion of a Project:

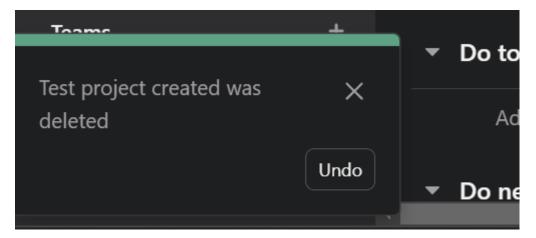
Select the project:



Delete the Project:

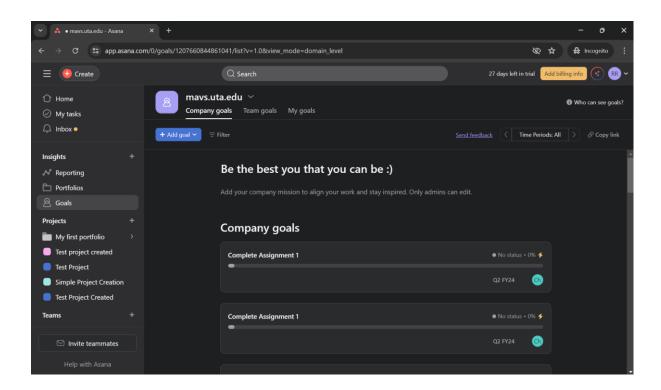


Project Deleted Successfully:

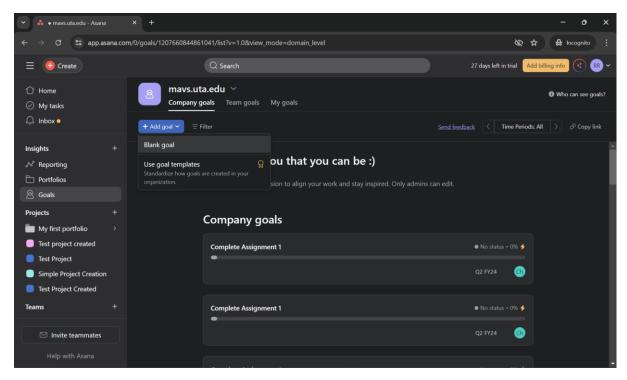


v. Creation of a new goal:

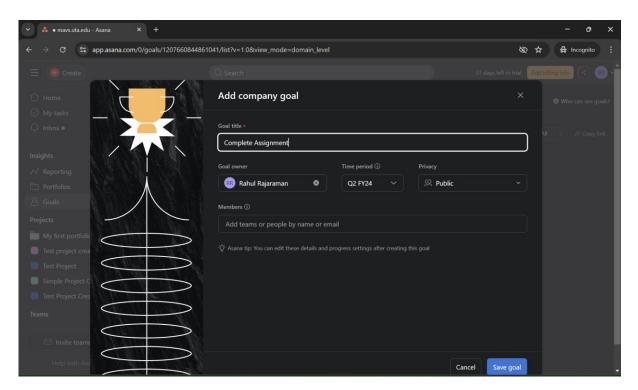
Opening Goals:

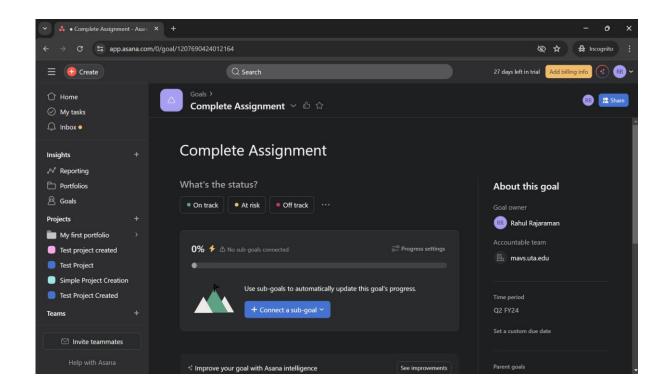


Creating a blank goal:



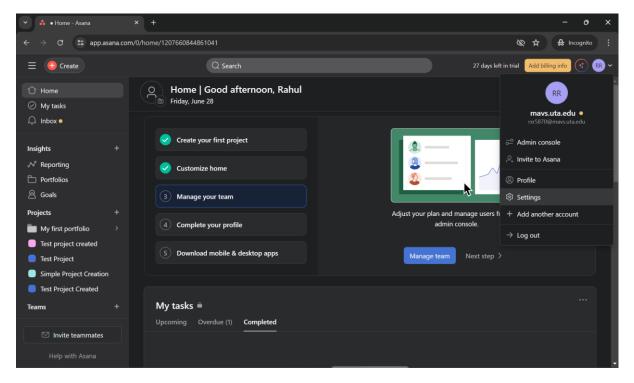
Giving goal title and creating the goal:



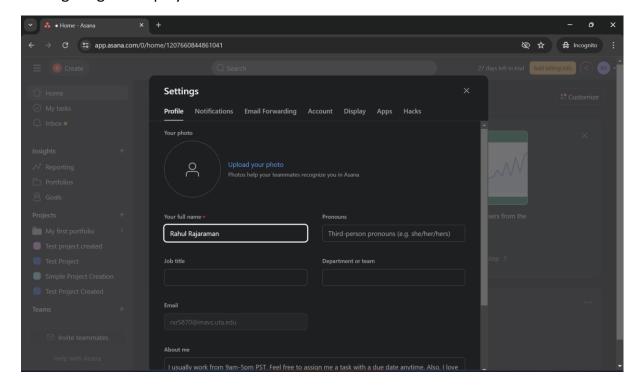


vi. Viewing the Settings Page:

Click the profile icon and go to Settings:

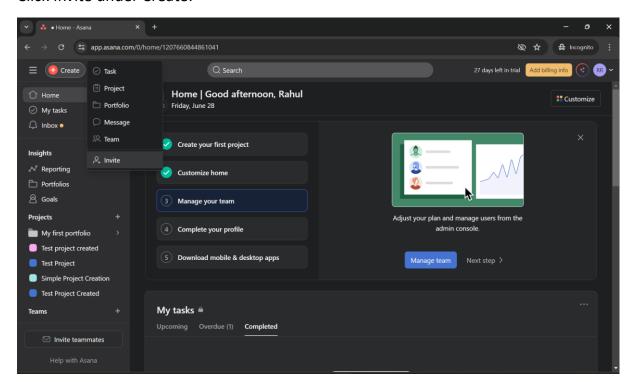


Settings Page is Displayed:

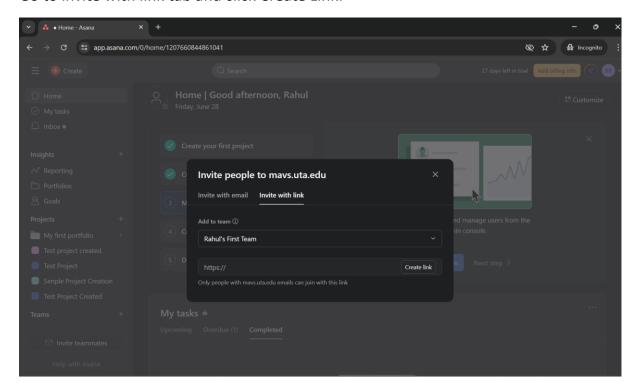


vii. Inviting a teammate:

Click Invite under Create:



Go to invite with link tab and click Create Link:



Click Copy link to copy it and click Deactivate link:

