

Project Description

Project Idea

This project aims to build a comprehensive software testing framework that combines manual, automated, and API testing approaches. The target website is **Coursera**, a global e-learning platform that provides courses, certifications, and degree programs. The project will focus on validating safe and impactful workflows such as homepage navigation, search, filters, and course detail pages. Authentication will be limited to controlled login/logout with a test account, and sensitive actions such as enrollments or payments will not be automated.

Goals

- Develop an automation suite using Selenium WebDriver.
- Implement API testing workflows using Postman for RESTful endpoints.
- Define and execute manual test cases for exploratory and regression testing.
- Build a framework that integrates automation, API, and manual testing into one cohesive structure.
- Present results with clear documentation, test coverage reports, and KPIs.

Technologies

- Selenium WebDriver for UI automation.
- Postman for REST API testing.
- Java/Python for scripting automation tests.
- GitHub for version control and collaboration.
- Report generation tools for execution reports.