

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 key workflows such as search, filters, authentication, and transactions. The objective is to ensure both functional correctness and user experience reliability.

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.