**Title:** QA Automation Test Strategy – TMDB Discover Demo

**1. Approach**

* **UI Testing:** Selenium WebDriver to interact with categories, filters, and pagination
* **API Testing:** Python Requests to validate endpoints and JSON structure
* **Assertions:** Compare UI results with API JSON data

**2. Automation Strategy**

* **Framework:** Pytest with modular test scripts
* **Reporting:** Pytest-HTML for visual HTML reports, Logging module for detailed logs
* **Retry Mechanism:** Handle timeouts and intermittent failures

**3. CI/CD Integration Approach**

* Push code to GitHub repository
* Trigger automated tests using GitHub Actions or Jenkins
* Upload HTML reports as artifacts
* Fail the pipeline if critical defects detected

**4. Tools & Libraries**

* Selenium, WebDriver-Manager
* Pytest, Pytest-HTML
* Requests, Logging
* Python >=3.10