**📊 Selenium AI Framework – Dashboard Documentation**

The **Dashboard UI** provides a simple interface to configure and run tests.  
Instead of editing config files manually, you can set values here and run tests instantly.

**⚙️ Dashboard Fields**

**1. Markers**

* **Description**: Select which group of tests (pytest markers) you want to run.
* **Usage**:
  + Add @pytest.mark.login or @pytest.mark.smoke above test functions.
  + In the dashboard, set Markers = smoke → only smoke tests run.
  + Leave blank → all tests run.
* **Example**:
  + login
  + smoke
  + regression

**2. Workers**

* **Description**: Defines how many parallel threads (workers) to use for running tests.
* **Usage**:
  + Higher number = faster execution (runs tests in parallel).
  + Keep 1 if debugging.
* **Example**:
  + 1 → sequential execution.
  + 4 → run 4 tests at a time.

**3. Browser**

* **Description**: Which browser to run tests on.
* **Supported Values**:
  + chrome
  + firefox
  + edge
* **Default**: chrome

**4. Headless**

* **Description**: Run browser in **headless mode** (no UI window).
* **Options**:
  + true → runs in background (faster, good for CI/CD).
  + false → opens browser visibly (good for debugging).

**5. Remote (Grid)**

* **Description**: Enable execution on a **remote Selenium Grid**.
* **Options**:
  + true → connect to remote hub (from Grid URL).
  + false → run on local machine.

**6. Cloud**

* **Description**: Run tests on **Cloud providers** instead of local/grid.
* **Supported Values**:
  + browserstack
  + saucelabs
  + *(leave blank for none)*
* **Notes**: Requires credentials via environment variables.

**7. Grid URL**

* **Description**: The hub URL for Selenium Grid.
* **Default**: http://localhost:4444/wd/hub
* **Example**:
  + Local grid: http://localhost:4444/wd/hub
  + Remote: http://grid.company.com:4444/wd/hub

**🚀 How to Use Dashboard**

1. Open dashboard in browser → http://localhost:5000 (default).
2. Fill fields: **Markers, Workers, Browser, Headless, Remote, Cloud, Grid URL**.
3. Click **Save Settings** → values are saved in config.yaml.
4. Click **Run Tests** → executes tests with given settings.
5. Open **Reports Page** → view execution status & detailed HTML reports.

**📑 Example Configurations**

* **Run only smoke tests locally with visible Chrome:**
* Markers: smoke
* Workers: 1
* Browser: chrome
* Headless: false
* Remote: false
* Cloud:
* Grid URL:
* **Parallel run (4 workers) on Selenium Grid:**
* Markers: regression
* Workers: 4
* Browser: firefox
* Headless: true
* Remote: true
* Cloud:
* Grid URL: http://localhost:4444/wd/hub
* **Run on BrowserStack:**
* Markers:
* Workers: 2
* Browser: edge
* Headless: true
* Remote: false
* Cloud: browserstack
* Grid URL:

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