# Glossary of Healinium Terms

## Selenium

A tool that lets you test websites by controlling a browser. Example: telling Chrome to click a button or type in a box.

## WebDriver

The 'driver' that connects Selenium to a browser (like ChromeDriver for Chrome).

## Appium

A tool like Selenium but for mobile apps (Android, iOS).

## Locator

A locator is a way to 'find' something on a webpage, like a button or text box.
Examples:
- id='loginBtn'
- class='search-box'
- //button[text()='Submit'] (XPath)

## Broken Locator

When the website changes (like the button name changes), the old locator no longer works and the test fails.

## Locator Healing

The process where Healinium fixes the broken locator automatically by finding a new match.

## XPath

A path that points to an element in the webpage structure (like directions). Example: //div[@id='menu']/a[1]

## CSS Selector

Another way to find elements using CSS rules. Example: div.menu > a:first-child

## POM (Page Object Model)

A style of writing test code where each webpage is written as a class. This makes it easier to update and maintain locators.

## Threshold

The minimum 'similarity score' needed to accept a healed locator. Example: If threshold = 0.7 (70%), the new locator must match at least 70% with the old one.

## Similarity Score

A number (like 85%) that shows how close the new locator is to the old one.

## Healing Storage

Where Healinium saves the locator history and healing info. Can be:
- Local file (on your computer)
- Database
- Cloud (shared with team)

## HealiumDriver

A special version of Selenium’s WebDriver that includes healing power.

## Shadow DOM

A hidden part of a web page used in modern frameworks (like React). Harder for Selenium to find elements inside.

## CI/CD (Continuous Integration / Continuous Delivery)

Tools like Jenkins that run tests automatically whenever new code is added.

## Regression Test

A set of tests run again and again to make sure old features still work after changes.

## Element Cache

A memory of recently fixed locators. Healinium stores them so it doesn’t have to heal them again.

## Backup Locator

A second locator you provide. If the first fails, Healinium tries this one.

## iFrame

A webpage inside another webpage. To test it, you must 'switch' into it first.

## Headless Mode

Running tests in a browser without opening the actual window. Faster but invisible.

# Healinium Architecture Diagram

