

# Architecture Client Code Server Hridoy Das

# Setup in NPM Environment

Step 1

Step 2

Structure

```
npm init -y
```

npm install selenium-webdriver

- node\_modules/
- test.js
- package.json
- |— package-lock.json

### Content

Importing selenium WebDriver

```
const { Builder, By, Key, until } = require('selenium-webdriver');
```

Creating WebDriver Instance

```
let driver = new Builder().forBrowser('chrome').build();
```

#### **Basic Commands**

```
async function test() {
    await driver.manage().window.maximize();
    await driver.get('https://demo.evershop.io');
    await driver.findElement(By.className("search-icon")).click();
    await driver.findElement(By.xpath("//input[@placeholder='Search']")).sendKeys("Nike");
    await driver.findElement(By.xpath("//input[@placeholder='Search']")).sendKeys(Key.RETURN);
    await driver.quit();
}
```

### Common Actions

```
Clicking
                     await driver.findElement(By.id('submit')).click();
                     await driver.findElement(By.name('username')).sendKeys('testuser');
Typing
Select from
                     let dropdown = await driver.findElement(By.id('options'));
                     await dropdown.findElement(By.css('option[value="1"]')).click();
Dropdown
Retrieving Text
                     let message = await driver.findElement(By.id('message')).getText();
Hovering over
                     const actions = driver.actions({ async: true });
Element
                     let element = await driver.findElement(By.id('menu'));
                     await actions.move({ origin: element }).perform();
Handling Alerts
                     await driver.switchTo().alert().accept();
```

# Types of Wait

Fixed Wait

```
Implicit Wait

driver.manage().setTimeouts({ implicit: 5000 });

Explicit Wait

await driver.wait(until.elementLocated(By.id('dynamic-element')), 10000);

let wait = new seleniumWebdriver.Wait(driver, 10000, 500);
    await wait.until(async function() {
        let element = await driver.findElement(By.id('status'));
        return element.getText() === 'Complete';
    });
```

await driver.sleep(5000);