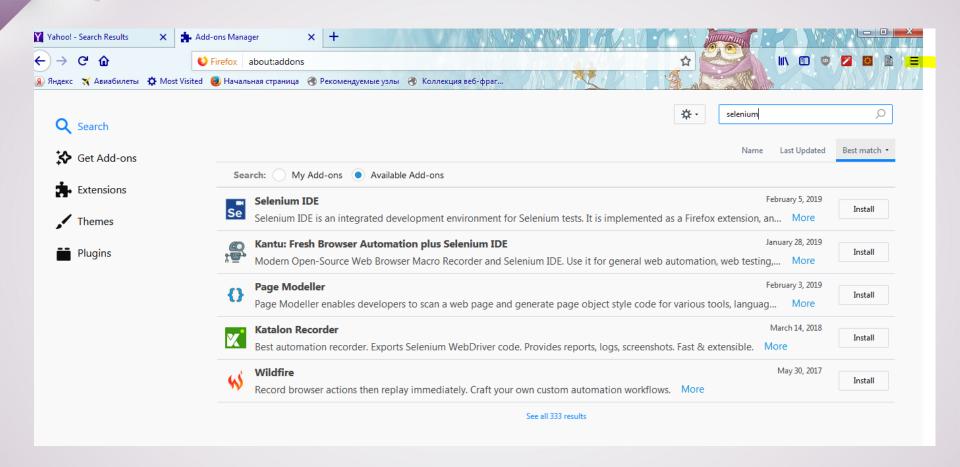


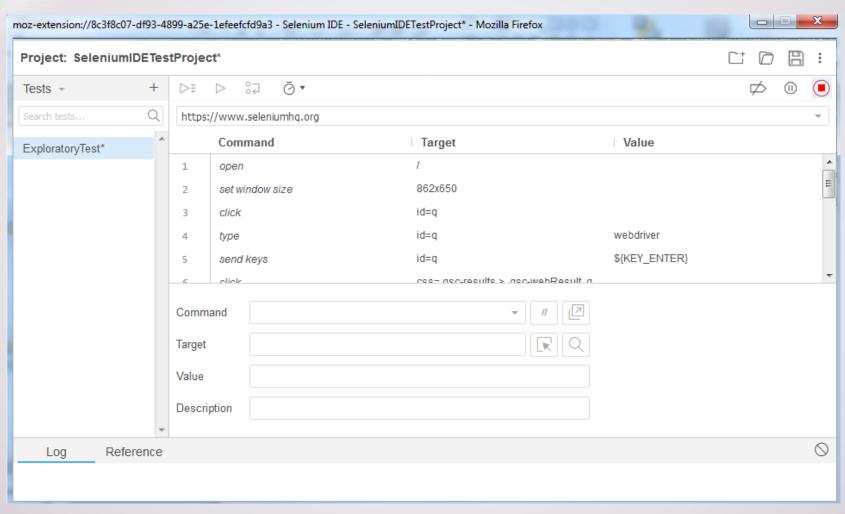
Table of Content

- Selenium IDE for Firefox
- 2 WebDriver in Java project
- Browser Development console
- 4 Finding elements
- Test framework using Page Object Pattern

Selenium IDE for Firefox (add-on)



Create first test project with random exploratory tests, playback



Tel Ran project



Name your new project		,
Please provide a name for your new project.		
TelRan.de TestProject		
You can change the name of your project at any time by clicking it and entering a new name.		
	ОК	CANCEL

Set your project's base URL

Before you can start recording, you must specify a valid base URL for your project. Your tests will start by navigating to this URL.

BASE URL

https://www.tel-ran.de/

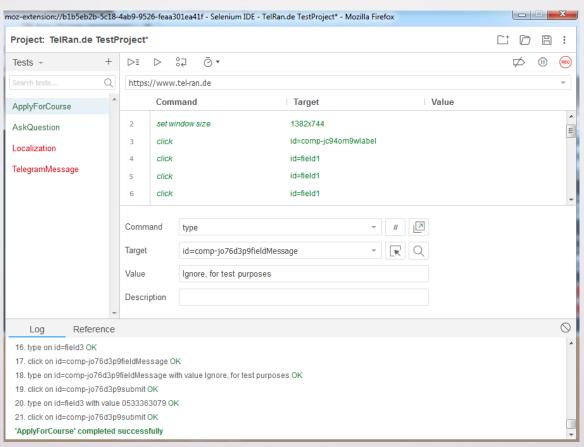
START RECORDING

CANCEL

Task

- Create tests for several site's basic usage scenarios
- Run, observe results
- Describe bugs if any

Note: Please put comment "Ignore, for testing purposes only"



1. Bug 1 Localization for main menu items fails

Steps:

- Go to main page https://www.tel-ran.de/
 Select De or En for language

Actual Result:

Some menu items are still in Russian, if click on them - content is displayed in Russian

Expected Result:

All menu items and content according to selected language Note: Reproducible for Chrome, FireFox

Priority: High (non professional site image) **Severity**: Med (workaround exists)

2. Bug 2 Send Telegram Message does not work

Steps:

- 1. Go to main page https://www.tel-ran.de/
- 2. Press Message Using Telegram button
- 3. Press Send Message

Actual Result:

FireFox: Browser Error is displayed, looks like functionality

is not implemented

Chrome: Nothing happens

Expected Result:

Functionality is implemented or user-friendly temporary message is displayed

Priority: Normal

Severity: Med (workaround exists for sending message)







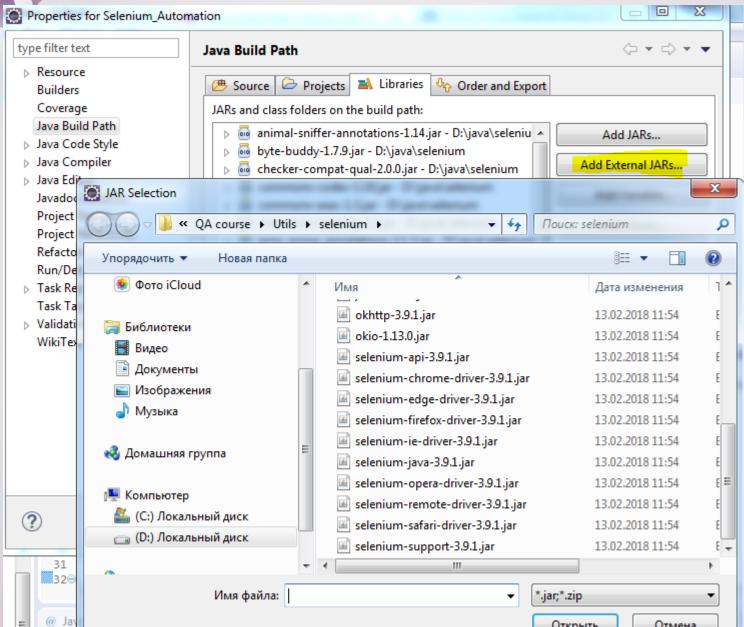
Selenium & WebDriver



Initially Selenium IDE and WebDriver were 2 products from different companies. Later on Selenium integrated WebDriver (Selenium WebDriver).

The idea - to take control over web browser elements directly from test script (Java, C#, Python etc.) via Selenium WebDriver APIs.

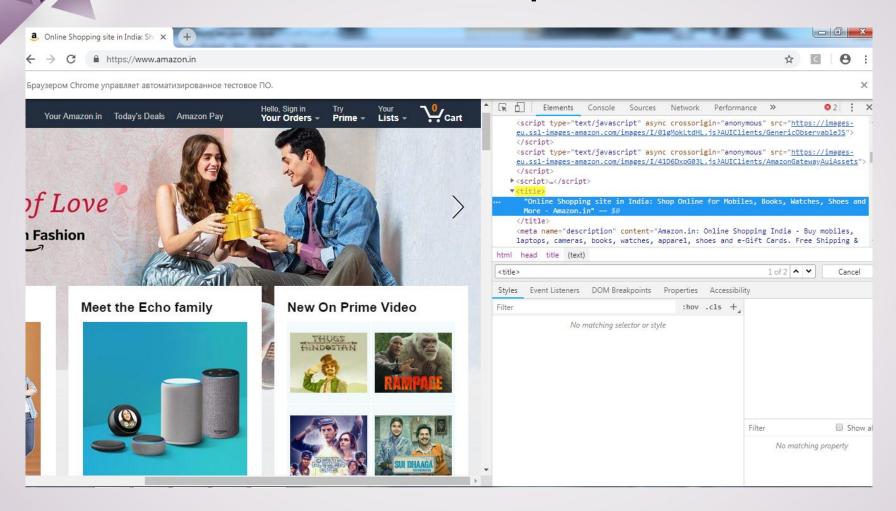
Configure Selenium java project



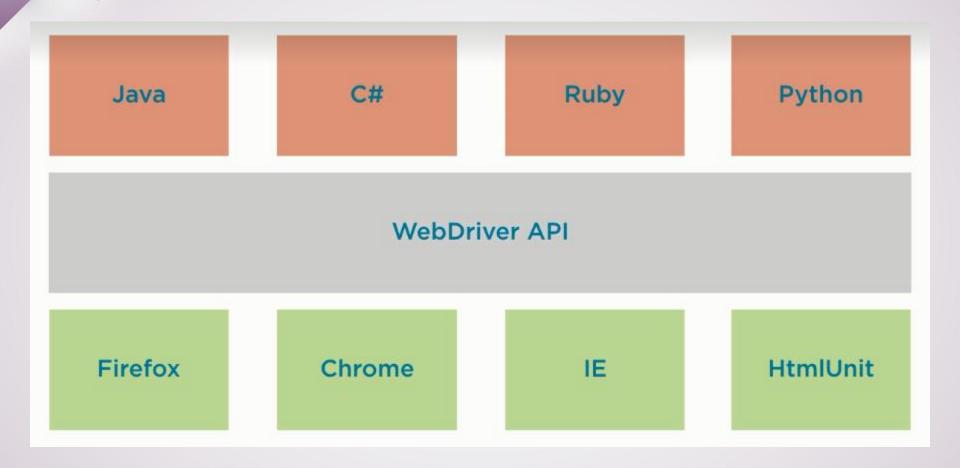
```
public class FirstSeleniumClass {
   WebDriver driver:
   String url1 = "https://www.wix.com/";
   String url2 = "https://www.amazon.in";
   String url3 = "https://www.facebook.com";
   String url4 = "https://www.flipkart.com";
   public void invokeBrowser() {
       try {
           System.setProperty("webdriver.chrome.driver", "D:\\java\\selenium\\drivers\\chromedriver.exe");
           driver = new ChromeDriver();
           // System.setProperty("webdriver.gecko.driver", "D:\\java\\selenium\\drivers\\geckodriver.exe");
           // driver = new FirefoxDriver();
           driver.manage().window().maximize();
           driver.manage().timeouts().implicitlyWait(60, TimeUnit.SECONDS);
           driver.get(url1);
           // WebElement temp = driver.switchTo().activeElement();
       } catch (Exception e) {
           e.printStackTrace();
   public void closeBrowser() {
       driver.close();
```

```
public static void main(String[] args) {
    // TODO Auto-generated method stub
    FirstSeleniumClass test = new FirstSeleniumClass();
    test.invokeBrowser();
    test.closeBrowser();
}
```

Use browser development console



Compatibility



Finding elements

ClassName ID Name TagName

CssSelector LinkText PartialLinkText XPath

FindElement examples

```
public void findGoodsAmazon(String product) {
       WebElement searchString = driver.findElement(By.id("twotabsearchtextbox"));
       searchString.sendKeys(product);
       searchString.submit();
       WebElement searchBtn = driver.findElement(By.cssSelector("#nay-search > form > div.nay-right > diy > input"));
//
//
       searchBtn.click();
    public void closeBrowser() {
        driver.close();
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        FirstSeleniumClass test = new FirstSeleniumClass();
        test.invokeBrowser();
        test.findGoods("phones");
        test.closeBrowser();
```

WebElement interface methods

 Not all methods are applicable to particular WebElement objects, like clear or sendKeys is not applicable for button

clear org.openqa.selenium click Interface WebElement findElement findElements All Superinterfaces: getAttribute SearchContext, TakesScreenshot getCssValue All Known Implementing Classes: RemoteWebElement sendKeys submit

WebElement interface properties

org.openqa.selenium

Interface WebElement

All Superinterfaces:

SearchContext, TakesScreenshot

All Known Implementing Classes:

RemoteWebElement

isDisplayed

isEnabled

getLocation

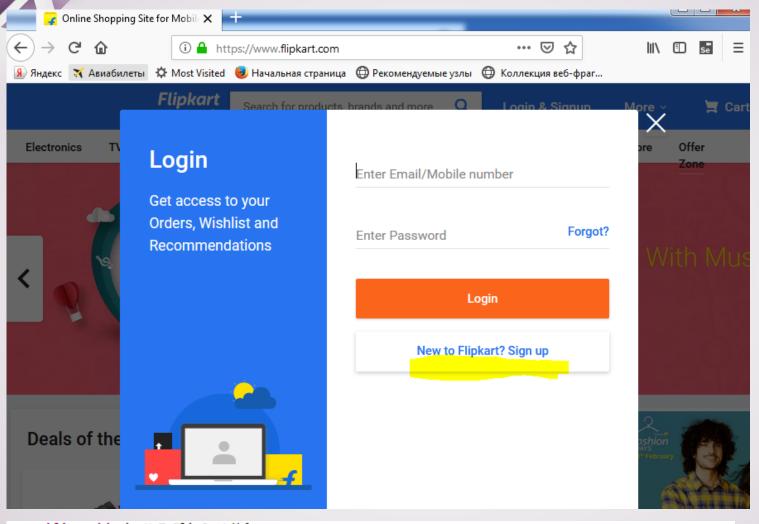
isSelected

getSize

getTagName

getText

Modal windows



```
public void signUpToFlipCart(){
WebElement temp = driver.switchTo().activeElement();
driver.findElement(By.xpath("/html/body/div[2]/div/div/div/div/div[2]/div/form/a/span")).click();
}
```

Task "Find Jonny Depp"

