



# INTERNATIONAL UNIVERSITY OF SARAJEVO

Faculty of Engineering and Natural Sciences

SE302 – Software Testing and Maintenance

## **Project: Automation tests for a website**

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## Overview

This project implements an automated web testing suite for the OLX.ba website using Playwright and the Page Object Model (POM) architecture. The goal is to build a maintainable and structured test automation framework with functional tests and smoke tests, following course requirements

- **Link to repository:** <https://github.com/XFGQ/SE302-Project>
- **Website:** <https://olx.ba>
- **Testing focus:** Search, suggestions, category navigation, login flow, sorting, filtering, UI elements, and basic page availability.

## Tools and Technologies

- **Playwright Test** (TypeScript)
- **POM Architecture** (separate page classes)
- **Assertions & Hooks** using Playwright's `expect` and `test.beforeEach`

## Test Scope Summary

This project contains **15 test cases**:

- 10 Functional (Normal) Test Cases
- 5 Smoke Test Cases

---

## Project Structure and POM Design

### Why Page Object Model (POM)?

POM improves:

- **Maintainability:** UI changes are handled in one place (page classes).
- **Readability:** test files contain scenario logic only.
- **Reusability:** common actions (search, cookies, login) are reusable methods.

### POM Classes Used in This Project

#### Functional

- `HomePage_Functional.ts`
- `SearchPage_Functional.ts`

#### Smoke

- `HomePage_Smoke.ts`

### Key POM Rule Applied

- **Locators are defined inside page classes**
- **Tests do not contain locators** (except very small one-off checks, where unavoidable)

## Test Case Documentation

This section describes the automated test cases developed for the OLX.ba website as part of the SE302 course project. The test cases were created to verify the main functionalities and basic stability of the system using the Playwright framework and the Page Object Model (POM) approach.

In total, **15 automated test cases** were implemented in this project. These test cases are divided into two groups:

- **10 Functional test cases**
- **5 Smoke test cases**

### Functional Test Cases

Functional test cases focus on testing the main features of the OLX.ba website from a user's perspective. These tests cover actions such as searching for products, navigating categories, logging in, sorting results, applying filters, and accessing item detail pages. The goal of these tests is to ensure that the website behaves correctly during normal usage.

The following functional test cases were implemented in this project:

- **TC01** – Verify search suggestions appear when typing
- **TC02** – Verify search functionality returns results
- **TC03** – Verify category navigation works correctly
- **TC04** – Verify successful user login
- **TC05** – Verify sorting functionality (Price: Low to High)
- **TC06** – Verify keyword search returns relevant results
- **TC07** – Verify login page navigation and form visibility
- **TC08** – Verify “Post Ad” button redirects guest user to login page
- **TC09** – Verify clicking a featured product opens its detail page
- **TC10** – Verify advanced filtering (Condition: Novo)

Each of these test cases is explained in detail in the tables below.

---

### 3.2 Smoke Test Cases

Smoke test cases are used to check whether the most important parts of the website are working properly. These tests are simple and fast, and they help confirm that the application is stable enough for further testing.

The smoke tests implemented in this project include:

- **Smoke TC01** – Verify that the home page title contains OLX.ba
- **Smoke TC02** – Verify the search input is visible and enabled
- **Smoke TC03** – Verify the login button is present
- **Smoke TC04** – Verify the Categories link is accessible
- **Smoke TC05** – Verify that the footer is loaded with copyright information

These smoke tests ensure that the basic user interface elements and navigation are available when the website is loaded.

**Table 1: Functional Test Case – TC01: Verify search suggestions appear when typing**

	Description
Test Case Name	TC01 – Verify search suggestions appear when typing
Test Description	Verifies that search suggestions are displayed when the user types a partial keyword in the search bar.
Preconditions	User is on the OLX.ba homepage and cookies are accepted.
Steps to Reproduce	1. Click on the search input field. 2. Type a partial keyword (e.g. “iphone”).
Expected Result	Search suggestions are displayed and contain the typed keyword.
Actual Result	Search suggestions are displayed successfully.

**Table 2: Functional Test Case – TC02: Verify search functionality returns results**

	Description
Test Case Name	TC02 – Verify search functionality returns results
Test Description	Checks whether searching for a valid keyword returns search results.
Preconditions	User is on the homepage.
Steps to Reproduce	1. Enter “PlayStation 5” in the search bar. 2. Press Enter.
Expected Result	User is redirected to the search results page and results are displayed.
Actual Result	Search results page is displayed with results.

**Table 3: Functional Test Case – TC03: Verify category navigation works correctly**

	Description
Test Case Name	TC03 – Verify category navigation works correctly
Test Description	Verifies that selecting a category navigates to the correct page.
Preconditions	User is on the homepage.
Steps to Reproduce	1. Click on a category (e.g. “Vozila”).
Expected Result	Category page opens with correct URL and heading.
Actual Result	Category page opens correctly.

**Table 4: Functional Test Case – TC04: Verify successful user login**

	Description
Test Case Name	TC04 – Verify successful user login
Test Description	Verifies that a registered user can log in with valid credentials.
Preconditions	User has a valid account and is logged out.
Steps to Reproduce	1. Click login button. 2. Enter valid email and password. 3. Click login.
Expected Result	User is logged in and redirected to the homepage.
Actual Result	User logs in successfully.

**Table 5: Functional Test Case – TC05: Verify sorting functionality (Price: Low to High)**

	Description
Test Case Name	TC05 – Verify sorting functionality (Price: Low to High)
Test Description	Verifies that products can be sorted by price from low to high.
Preconditions	Search results are displayed.
Steps to Reproduce	1. Perform a search. 2. Select sorting option “Low to High”.
Expected Result	Results are sorted by ascending price.
Actual Result	Results are sorted correctly.

**Table 6: Functional Test Case – TC06: Verify keyword search returns relevant results**

	Description
Test Case Name	TC06 – Verify keyword search returns relevant results
Test Description	Checks whether the displayed results match the searched keyword.
Preconditions	User is on homepage.
Steps to Reproduce	1. Search for “Audi A6”.
Expected Result	Results contain the searched keyword.
Actual Result	Relevant results are displayed.

**Table 7: Functional Test Case – TC07: Verify login page navigation and form visibility**

	Description
Test Case Name	TC07 – Verify login page navigation and form visibility
Test Description	Verifies that the login page opens and input fields are visible.
Preconditions	User is on homepage.
Steps to Reproduce	1. Click login button.
Expected Result	Login page opens and email field is visible.
Actual Result	Login page opens successfully.

**Table 8: Functional Test Case – TC08: Verify “Post Ad” button redirects guest user to login page**

	Description
Test Case Name	TC08 – Verify “Post Ad” button redirects guest user to login page
Test Description	Checks redirection to login when guest user clicks “Post Ad”.
Preconditions	User is not logged in.
Steps to Reproduce	1. Click “Post Ad” button.
Expected Result	User is redirected to the login page.
Actual Result	Redirect works correctly.

**Table 9: Functional Test Case – TC09: Verify clicking a featured product opens its detail page**

	Description
Test Case Name	TC09 – Verify clicking a featured product opens its detail page
Test Description	Verifies navigation to product detail page.
Preconditions	Products are visible on homepage.
Steps to Reproduce	1. Click on a featured product.
Expected Result	Product detail page opens.
Actual Result	Product detail page opens successfully.

**Table 10: Functional Test Case – TC10: Verify advanced filtering (Condition: Novo)**

	Description
Test Case Name	TC10 – Verify advanced filtering (Condition: Novo)
Test Description	Verifies filtering results by “Novo” condition.
Preconditions	Search results are displayed.
Steps to Reproduce	1. Apply “Novo” filter.
Expected Result	Only new items are displayed.
Actual Result	Filter works as expected.

## SMOKE TEST TABLES

**Table 11: Smoke Test Case – TC01: Verify that the home page title contains OLX.ba**

	Description
Test Case Name	Smoke TC01 – Verify home page title
Test Description	Verifies homepage title.
Preconditions	Website is accessible.
Steps to Reproduce	1. Open homepage.
Expected Result	Title contains “OLX.ba”.
Actual Result	Title is correct.

**Table 12: Smoke Test Case – TC02: Verify the search input is visible and enabled**

	Description
Test Case Name	Smoke TC02 – Verify search input
Test Description	Checks search input visibility and availability.
Preconditions	Homepage loaded.
Steps to Reproduce	1. Observe search bar.
Expected Result	Search input is visible and enabled.
Actual Result	Search input is usable.



**Table 13: Smoke Test Case – TC03: Verify the login button is present**

	Description
Test Case Name	Smoke TC03 – Verify login button
Test Description	Checks presence of login button.
Preconditions	Homepage loaded.
Steps to Reproduce	1. Check login button.
Expected Result	Login button is visible.
Actual Result	Login button is visible.

**Table 14: Smoke Test Case – TC04: Verify the Categories link is accessible**

	Description
Test Case Name	Smoke TC04 – Verify categories link
Test Description	Verifies accessibility of categories link.
Preconditions	Homepage loaded.
Steps to Reproduce	1. Check categories link.
Expected Result	Categories link is visible.
Actual Result	Categories link is visible.

**Table 15: Smoke Test Case – TC05: Verify that the footer is loaded with copyright information**

	Description
Test Case Name	Smoke TC05 – Verify footer
Test Description	Verifies footer visibility and information.
Preconditions	Homepage loaded.
Steps to Reproduce	1. Scroll to footer.
Expected Result	Footer and copyright text are visible.
Actual Result	Footer is displayed correctly.

# Page Object Model Framework

The **Page Object Model (POM)** is a commonly used approach in automated testing that helps organize test code in a clear and structured way. In this approach, each important page of the application is represented by a separate class. These classes store the elements of the page and the actions that can be performed on them, while the test files focus only on test scenarios.

In this project, the POM approach was applied to keep the test cases simple and readable and to avoid repeating the same locators in multiple tests.

## How We Used It in SE302

In the SE302 course project, the Page Object Model was applied by creating separate page classes for different parts of the OLX.ba website. Each page class contains the locators and methods related to that specific page, while the test files include only test scenarios and assertions.

For functional testing, page classes were used to handle actions such as searching for products, navigating categories, logging in, sorting results, and applying filters. These actions were implemented as reusable methods and called directly from the functional test cases.

For smoke testing, a simplified page class was created to include only the essential elements of the homepage. This allowed smoke tests to run faster while still verifying the basic stability of the website.

By using this approach, the test code remained clean and organized, and any UI changes could be handled by updating the relevant page class without modifying the test cases.

## Structure of the POM Implementation

### Page Classes

Each page class is responsible for one part of the website and includes:

- Page elements such as input fields, buttons, and links
- Methods that perform actions like searching, navigating, logging in, or applying filters

The following page classes were used in this project:

- **HomePage\_Functional.ts**, which covers functional interactions on the homepage such as search suggestions, category navigation, login actions, and redirection to the post ad page.
- **SearchPage\_Functional.ts**, which handles search result-related operations including result verification, sorting, and filtering.
- **HomePage\_Smoke.ts**, which contains only the basic elements needed for smoke testing, such as page title, search input, login button, categories link, and footer.

## Test Files

The test files define the test scenarios and assertions. They do not include UI locators directly; instead, they call the methods defined in the page classes. This separation makes the tests easier to understand and reduces the impact of UI changes.

In this project:

- Functional test scenarios are written in `functional.spec.ts`
- Smoke test scenarios are written in `smoke.spec.ts`

## Use of Playwright

Playwright is used as the main automation tool to:

- Control browser actions and navigation
- Perform assertions to validate test outcomes
- Run tests on multiple browsers (Chromium, Firefox, and WebKit)
- Generate execution reports for test results

## Advantages of Using POM in This Project

Using the Page Object Model provided several benefits:

- **Cleaner tests:** Test files remain short and focused on what is being tested.
- **Less duplication:** Reusable methods reduce repeated code.
- **Easier updates:** UI changes require updates in only one page class.
- **Better organization:** Functional and smoke tests are clearly separated but follow the same structure.

## Application in the SE302 Project

Throughout this project, common actions such as accepting cookies, performing searches with human-like typing, logging in, and applying filters were implemented inside page classes. This allowed the test cases to remain consistent and easier to maintain.

Overall, using the Page Object Model helped create a more organized and maintainable automation framework that meets the requirements of the SE302 course project.

# Challenges and Solutions

During the development of this automation project, several challenges were encountered while testing the OLX.ba website. These challenges mainly related to dynamic elements, timing issues, and test stability. The following points summarize the main problems and how they were solved.

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## 1. Cookie Consent Pop-up Blocking Interactions

### Challenge:

The cookie consent pop-up sometimes appeared on page load and blocked user interactions, causing tests to fail.

### Solution:

A dedicated method was created to handle the cookie pop-up. The test waits until the accept button becomes visible, clicks it, and then waits for the pop-up to disappear before continuing.

---

## 2. Dynamic Content and Timing Issues

### Challenge:

Search results and page elements are loaded dynamically, which occasionally caused tests to fail due to elements not being visible in time.

### Solution:

Explicit waits and Playwright's `waitForURL`, `waitForLoadState`, and visibility checks were used to ensure that elements were fully loaded before performing assertions.

---

## 3. Bot Detection and Fast Automated Typing

### Challenge:

Typing too fast in the search input sometimes prevented search suggestions from appearing or caused unstable behavior.

### Solution:

Human-like typing was implemented using delayed keystrokes to better simulate real user behavior and improve test reliability.

---

## 4. Redirection and Race Conditions After Click Actions

### Challenge:

Some actions, such as login or filtering, involved page redirections that could cause race conditions between clicking a button and waiting for the new page to load.

### Solution:

Click actions and URL waits were synchronized using combined waits to ensure that navigation completed successfully before continuing the test.

---

## 5. Cross-Browser Consistency

### Challenge:

Small differences in behavior were observed when running tests across different browsers.

### Solution:

The tests were executed on multiple browsers (Chromium, Firefox, and WebKit), and stable selectors and waits were used to minimize browser-specific issues.

## Execution Evidence

This section shows the execution results of the automated tests created for this project. The screenshots were taken from the Playwright Test Runner and display the execution of both functional and smoke test cases on the OLX.ba website. The results confirm that the tests ran successfully and the main functionalities worked as expected.

### Homepage Loaded Successfully (TC01)

The screenshot displays the Playwright Test Runner interface. On the left, a list of test cases is shown, with 'TC01: Verify homepage loads successfully' highlighted. The main panel shows the test execution details, including the 'Before Hooks' and 'After Hooks' sections. The 'Before Hooks' section shows the test case 'TC01: Verify homepage loads successfully' passing. The 'After Hooks' section shows the test case 'TC01: Verify homepage loads successfully' passing. The right panel shows a screenshot of the OLX.ba homepage, which is loaded successfully. The bottom panel shows the test code for TC01, which includes a search for 'Prestiga' and a verification of the search results.

### Search Functionality and Sorting (TC05)

The screenshot displays the Playwright Test Runner interface. On the left, a list of test cases is shown, with 'TC05: Verify sorting functionality (Price: Low to High)' highlighted. The main panel shows the test execution details, including the 'Before Hooks' and 'After Hooks' sections. The 'Before Hooks' section shows the test case 'TC05: Verify sorting functionality (Price: Low to High)' passing. The 'After Hooks' section shows the test case 'TC05: Verify sorting functionality (Price: Low to High)' passing. The right panel shows a screenshot of the OLX.ba search results page, which is loaded successfully. The bottom panel shows the test code for TC05, which includes a search for 'Laptop' and a verification of the search results.

## Keyword Search Results (TC02 / TC06)

PLAYWRIGHT

Filter (e.g. text, @tag)

Status: all Projects: chromium

1/1 passed (100%)

functional

functional.specs

OLX.ba - Functional Test Suite

TC01: Verify search suggestions appear when typ...

TC02: Verify search functionality returns res...

TC03: Verify category navigation works correctly

TC04: Verify successful user login

TC05: Verify sorting functionality (Price: Low to H...

TC06: Verify keyword search returns relevant res...

TC07: Verify login page navigation and form visib...

TC08: Verify "Post Ad" button redirects guest user...

TC09: Verify clicking a featured product opens its...

TC10: Verify advanced filtering (Condition: Novo)

smoke

smoke.specs

OLX.ba - Smoke Testing Suite

Should verify that the home page title contains OL...

Should verify the search input is visible and enab...

Should verify the login button is present

Should verify the Categories link is accessible

Should verify that the footer is loaded with copyr...

TESTING OPTIONS

SETTINGS

Actions

Metadata

5 hidden

Action

Before

After

Passed 11.8s

Before Hooks

Wait for selector 25ms

Click 82ms

locator(input[name="notASearchfield"]) 2.3s

Type "PlayStation 5" 58ms

Wait for navigation 400ms

Expect "toBeVisible" 523ms

locator(href="/arikal/").first() 280ms

Query count 113ms

Expect "toBeGreaterThan" 0ms

After Hooks 2.1s

Locator

Source

Call Log

Errors

Console

Network

Attachments

Annotations

SearchPage.Functionals

143

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146

147

148

149

150

151

152

async verifyResultExists(): Promise<void> {

// Imların yüklenmesi bazen uzun sürebilir, timeout süresini biraz artırabiliriz

await expect(this.resultCards.first()).toBeVisible({ timeout: 15000 });

const count = await this.resultCards.count();

console.log("Bulunan ilan sayısı: " + count); // Debug için konsola yazdırılır

expect(count).toBeGreaterThan(0);

https://olx.ba/PlayStation-5

Početna Kategorije Shopovi Marketing Blog Ostali linkovi + Objavi oglas

Prijavi se Registracija

Objavi oglas

Pretraga

Kategorija Cijna Lokacija

Vidjeti 1024 Kompjuteri Tehnika Sve ostalo Servisi i usluge Moj dom Mobilni uređaji Dijelovi za vozila Dječiji za vozila

5724 REZULTATA

EA FC 26 FIFA 26 (PS4/PS5 PlayStation 4/5) 2024 PC26 99 KM

Konzola PS5 PlayStation 5 Slim Digitala Fortnite VCH DIGITALM 849 KM

Konzola PlayStation 5 Slim PS5 Disc CD Fortnite Powerma... 1.049 KM

Sony PS5 PlayStation 5 Slim + Fortnite Powerma Chaos VCH... 1.049 KM

\*\*\*KACIJAH\*\*\* DZDOSTIJE ZA PS5 PlayStation 5 69 KM

## Successful User Login (TC04)

PLAYWRIGHT

Filter (e.g. text, @tag)

Status: all Projects: chromium

1/1 passed (100%)

functional

functional.specs

OLX.ba - Functional Test Suite

TC01: Verify search suggestions appear when typ...

TC02: Verify search functionality returns res...

TC03: Verify category navigation works correctly

TC11: Verify successful user login

TC06: Verify keyword search returns relevant res...

TC07: Verify login page navigation and form visib...

TC08: Verify "Post Ad" button redirects guest user...

TC09: Verify clicking a featured product opens its...

TC10: Verify advanced filtering (Condition: Novo)

smoke

smoke.specs

OLX.ba - Smoke Testing Suite

Should verify that the home page title contains OL...

Should verify the search input is visible and enab...

Should verify the login button is present

Should verify the Categories link is accessible

Should verify that the footer is loaded with copyr...

TESTING OPTIONS

SETTINGS

Actions

Metadata

5 hidden

Action

Before

After

Passed 15.2s

Before Hooks

Navigate to "/" 1.7s

Wait for load state "networkidle" 3.9s

Click 351ms

getByRole(link, { name: 'prijava' }) 0ms

Wait for load state "load" 0ms

Fill "furdanm35@gmail.com" 333ms

locator(input[name="username"]) 102ms

Wait for selector 53ms

locator(button).filter(ha: locator('prijava se'))... 99ms

Wait for navigation 112ms

Click 446ms

Expect "toBeVisible" 152ms

After Hooks 1.3s

Locator

Source

Call Log

Errors

Console

Network

Attachments

Annotations

HomePage.Functionals

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66

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71

// const submitBtn = this.page.locator('button.my-1g');

await submitBtn.waitFor({ state: 'visible', timeout: 5000 });

// Tiklana islomini yap ve ana sayfaya yonlenmeyi bekle

await Promise.all([

this.page.waitForURL("https://olx.ba/"), { timeout: 20000 },

submitBtn.click({ force: true })

]);

https://olx.ba/

Početna Kategorije Shopovi Marketing Blog Ostali linkovi + Objavi oglas

Prijavi se Registracija

Objavi oglas

Pretraga

Kategorije Praznična akcija Vozila Nekretnosti Servisi i usluge Poslovi Dijelovi za vozila Mobilni uređaji Kompjuteri Tehnika Moj dom Biznis i Industrija Odjeća i obuća Sportska oprema

Izdvojeni oglasi

SCHNEPPCH Benzinna motorna pila - testena - motorna PCS38... 179 KM

Audi A3 1.9 TDI 77KW SPOTRACK MAC20006 TOPP... 8.850 KM

Schneppch aku vrlanemama multifunkcionalni alat IXES C... 129 KM

BMW X1 1.8 s-drive FULL opremlati LANAC uraden, tek... 11.700 KM

ACCIA MUSLI BRENDRANI SATOVI POPUST NA 2 SATA 40 KM

## Failed Test Example (TC01 – Initial Failure)

OLX

Početna Kategorije Shopovi Marketing Blog Ostali linkovi + Objavi oglas

Prijavi se Registracija

Objavi oglas

Pretraga

Kategorije Praznična akcija Vozila Nekretnosti Servisi i usluge Poslovi Dijelovi za vozila Mobilni uređaji Kompjuteri Tehnika Moj dom Biznis i Industrija Odjeća i obuća Sportska oprema

Izdvojeni oglasi

Filtriraj izdvojene oglase

Schneppch aku bušilica odvjač sa 74 komada pribora IXES C... 149,90 KM

Parfemi A++ Klasa(moze i na veliko) najniza cijena!! 59,90 KM

Gorenje ugradbeni frižider 88cm RBL409EP1 345,90 KM

Volkswagen Caddy maxi Automatic dsq 7 sedista 14.300 KM

Dječije biciklo 100 KM