eBay Automation Project

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Project Objective

Goal:

Automate eBay shopping workflow from homepage navigation to product selection, adding to cart, and account creation.

Covers:

- Navigation
- Element interaction
- Form filling
- Automation logic using Selenium

Project Structure

Built using IntelliJ IDEA with a Maven project setup for dependency management and project structure.

01.

Test Class: **Ebay.java**
- Contains all automation logic
- **@BeforeMethod:** Opens eBay homepage
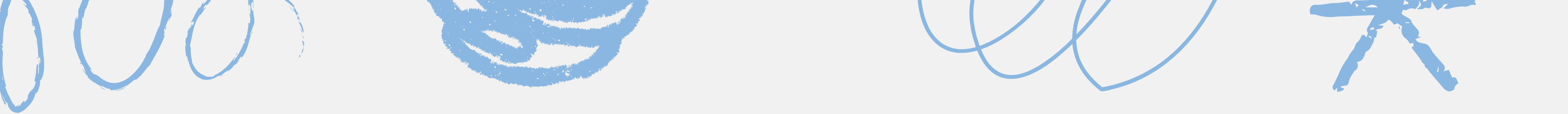- **@Test:** Simulates a full shopping flow

02.

Maven Project Setup (**pom.xml**):
- Manages dependencies automatically
- Defines **Java version: 11**
- Includes:
  - selenium-java → **version 4.16.1**
  - testng → **version 7.8.0**

Tools & Technologies

Tool/Library	Purpose
Java	Programming language
Selenium WebDriver	Browser automation
ChromeDriver	Browser support
TestNG	Testing framework
Maven	Dependency management
IntelliJ IDEA	Integrated Development IDE

Step-by-Step Flow

01
Click **Electronics**

02
Click **Cell Phones & Accessories**

03
Click **See All**

04
Choose a phone product

05
Click **Add to Cart**

06
Sign In → **Create Account**

07
Fill in: **First Name, Last Name, Email, Password**

Code
Explanation

Highlights & Challenges

Achievements:

- Successfully automated end-to-end flow
- Learned about Selenium element handling
- Practiced test structuring with TestNG
- Integrated Maven for dependency handling

Challenges:

- Dynamic elements on real-time sites like eBay
- Replacing Thread.sleep() with WebDriverWait (planned)

Future Improvements

What I plan to add:
- Implement Page Object Model (POM)
- Use WebDriverWait instead of Thread.sleep()
- Add test data files (external .json or .properties)
- Enhance reporting (e.g., ExtentReports)

Conclusion

This project helped me:
- Understand Selenium automation workflows
- Apply real-world scenarios to testing
- Use Maven and TestNG in a practical project

Thank you very much!