# TestNG Automation Framework – README

This project contains automated test scripts for validating the core functionalities of an e-commerce web application using **Selenium WebDriver**, **TestNG**, and the **Page Object Model (POM)** design pattern.

## 🧰 Tools and Technologies Used

- Java – Programming language  
- Selenium WebDriver – For browser automation  
- TestNG – For writing and managing test cases  
- Maven – Project management and dependency handling  
- Page Object Model (POM) – Design pattern for clean code organization  
- WebDriverManager – For handling browser drivers automatically  
- Extent Reports / Allure (optional) – For generating test reports

## 📄 Page Classes Implemented

- BasePage.java – Common functionality for all pages

- SignupPage.java – Handles signup interactions

- LoginPage.java – Handles login interactions

- HomePage.java – Navigation and product listing

- ProductOnePage.java – Add product one to cart

- ProductTwoPage.java – Add product two to cart

- CartPage.java – Handles cart operations and checkout process

## ▶️ How to Run the Tests

### Prerequisites

- Java 8+ installed  
- Maven installed  
- IDE like IntelliJ IDEA or Eclipse  
- Chrome browser installed

### 🔧 Setup Instructions

1. Clone the repository:  
 git clone https://github.com/your-username/your-repo-name.git  
 cd your-repo-name  
  
2. Open the project in your IDE.  
  
3. Use Maven to download dependencies:  
 mvn clean install  
  
4. Run tests using TestNG XML file or directly from your IDE.