EcommPlaygroundTestMasters

👫 Meet the Team

This project is the result of collaborative work by an amazing team! 👏

- **Omar Ahmed Elrfaay**
  📧 **omar.tolis2004@gmail.com**

- **Rana Dief**
  📧 **s-rana.dief@zewailcity.edu.eg**

- **Zyad Tarek Noaman**
  📧 **zyad.tarek2021@gmail.com**

- **Basmala Samir**
  📧 **basmalasam21@gmail.com**

- **Malak Sherif**
  📧 **malaksherif1234@gmail.com**

Project Goals 🎯

1. **Ensure Web Application Reliability** 🛠️

   o **Develop a robust automated testing framework to validate UI, functionality, and API responses.**

   o **Identify and resolve defects early in the development lifecycle.**

2. **Improve Test Efficiency & Maintainability** ⚡

   o **Implement a structured test case design covering various scenarios (positive, negative, boundary, and edge cases).**

   o **Utilize the Page Object Model (POM) to enhance test reusability and maintainability.**

3. **Enhance Performance & Scalability** 📊

   o **Conduct load and stress testing to measure system performance under different conditions.**

   o **Ensure the application can handle concurrent users and heavy traffic efficiently.**

4. **Seamless CI/CD Integration** 🔄

   o **Automate test execution in a continuous integration environment using Jenkins.**

   o **Ensure smooth deployment by integrating automated tests into the CI/CD pipeline.**

5. **Comprehensive Reporting & Bug Tracking** 🐞

   o **Generate detailed test reports for UI, functional, API, and performance tests.**

   o **Use Jira for tracking issues, managing test cases, and improving defect resolution.**

🚀 **Objective: Deliver a scalable, maintainable, and efficient automated testing suite that ensures the quality and reliability of the E-commerce Playground website.**