

Project presentation

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Agenda

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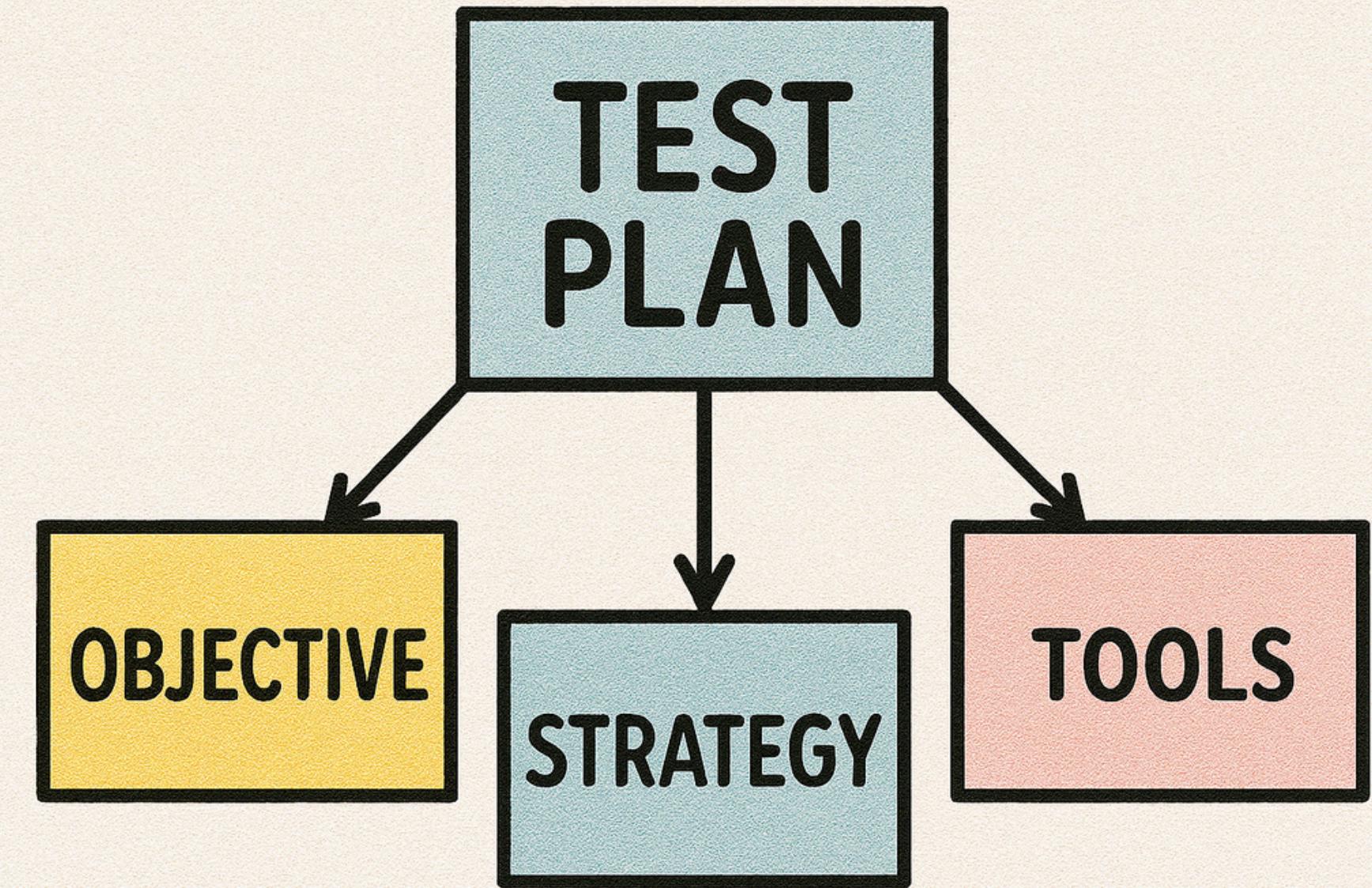
Project Introduction

Fully Optimized Automated Testing Framework

- **Goal:** Ensure quality across applications.
- **Scope:** Demo Blaze Site (Manual, Automation), Trello & Reqres (API, DB).
- **Key Deliverable:** A fully functional framework for end-to-end testing with CI/CD integration.

Test Plan

- **Objectives:** Validate functionality, performance, data integrity, Automate repetitive tests
- **Strategy:** Manual for initial validation, Automated for scale
- Tools: Selenium, Postman, SQL, Jenkins

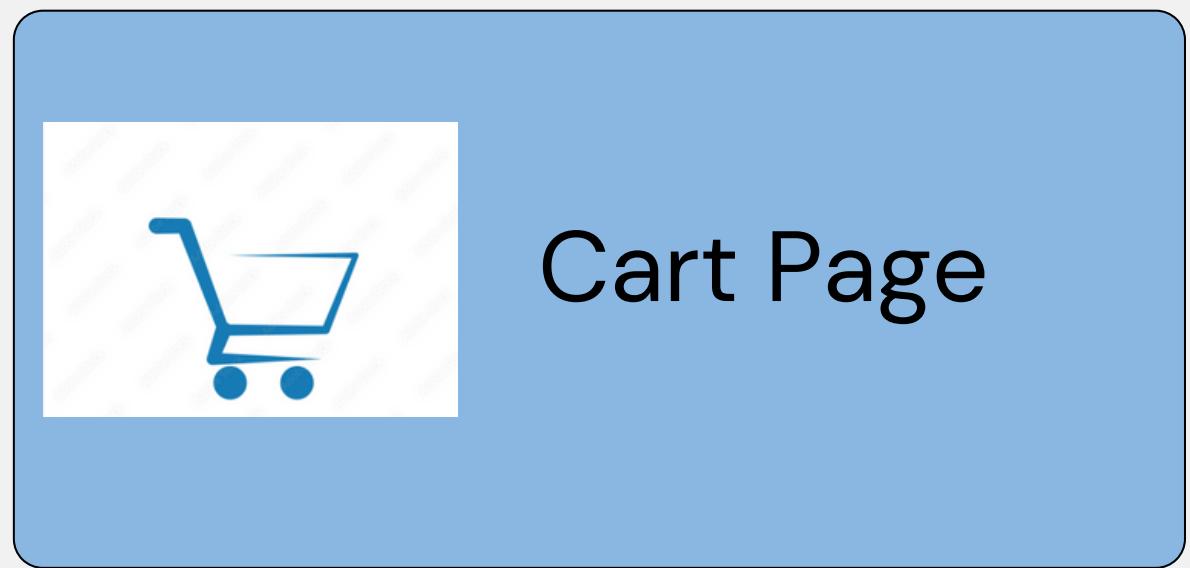
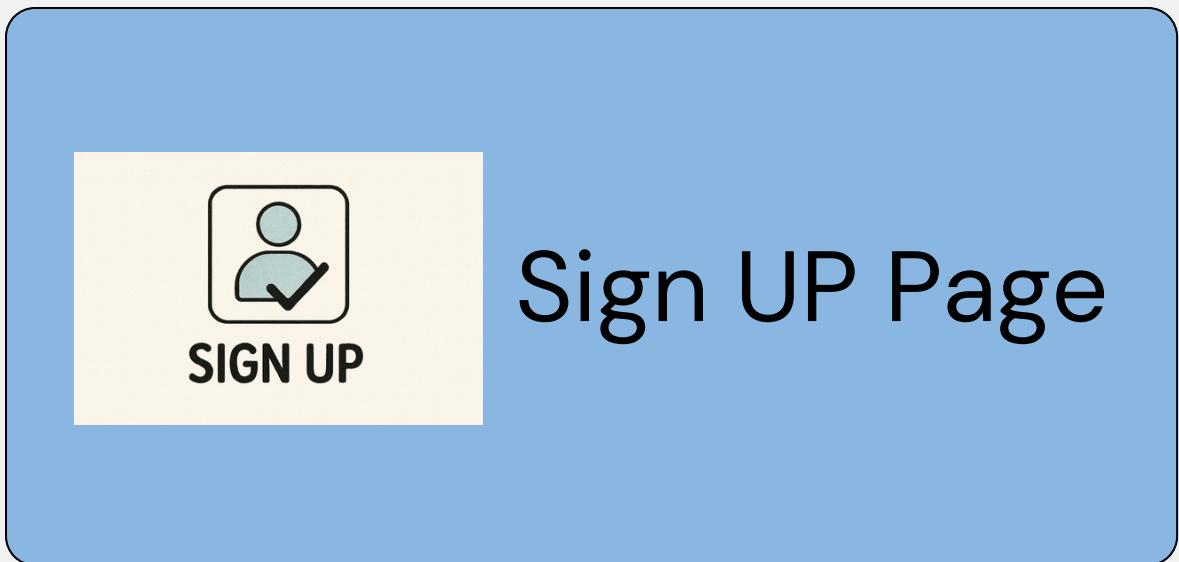


Test Design



- **Test Cases:** UI, functional test cases For Demo Blaze
- **Tool:** Jira , Excell
- Prioritize high-risk areas

Test Execution Scope



Manual Testing

Report Type	Bug Report
Reported by Eng./Team	Bug Busters
Report Version	Rev.1
Revision Date	April 8, 2025
Website/App	https://www.demoblaze.com/

Main Modules Test

Section	Abbreviation	Test Result	Assigned	Test Case/Bug ID
Home Page- Contact	HP-C	Fail	Hany	TC-HP-C-XX
Home Page- About us	HP-As	Fail	Hany	TC-HP-AS-XX
Cart	Cart	Fail	Eman	TC-Cart-XX
Place order	PlaceOrder	Fail	Eman	TC- PlaceOrder
Login	Login	Pass	Esraa	TC-Login-XX
Signup	Si-UP	Pass	Esraa	TC-Signup-XX
Home Page - Photos Carousel	HP-PC	Pass	A.NourEldien	TC-HP-PC-XX
Categories - Phones	Ca-Ph	Fail	Fatma	TC-Ca-Ph-XX
Categories - Laptops	Ca-Lp	Fail	Mostafa	TC-Ca-Lp-XX
Categories - Monitors	Ca-Mo	Pass	A.Eldokm	TC-Ca-Mo-XX

Module	Test Data	Expected Result	Actual Result	Bug Frequency	Bug Type	Bug Severity	Test Result
Category	N/A	Category products displayed correctly, with accurate details, images, and prices, and users can navigate smoothly without errors or broken links.					Pass
Carousel	N/A	Users should be able to navigate through all product images using carousel controls without any glitches or missing elements.	Carousel navigation is not working; users cannot scroll through images, and part of the content appears cut off.	Every Time	Functional	Low	Fail
Image	N/A	The carousel should display images correctly, navigate smoothly using arrows.	The carousel displayed the images correctly, navigated smoothly using arrows.				Pass
Contact		A success message is displayed, and the user is created.	A success message is displayed, and the user is created.				Pass
About Us		An error message should be displayed: "Username is required."	An error message displayed: "Username is required."				Pass
Cart		An error message should be displayed: "Password is required."	An error message displayed: "Username is required."				Pass
Place Order		An error message should be displayed: "Username and Password are required."	An error message displayed: "Username is required."				Pass
Login		The password should be displayed as masked characters (e.g., "*****").	The password displayed as masked characters (e.g., "*****").				Pass
Sign Up		An error message should be displayed: "This account already exists."	An error message displayed: "This account already exists."				Pass
Photo Carousel		The Sign-Up page should close, returning the user to the previous screen.	The Sign-Up page closed, returning the user to the previous screen.				Pass
Category - Phones		The Sign-Up page should close, returning the user to the previous screen.	The Sign-Up page closed, returning the user to the previous screen.				Pass
Category - Laptops		The Sign-Up page should close, returning the user to the previous screen.	The Sign-Up page closed, returning the user to the previous screen.				Pass
Category - Monitors							Pass

Manual Testing

A product is added to the cart

+ Add @ Apps

Description

1. Open the Cart page.
and delete option are displayed correctly.

2. Check if the product image, title, price,

Save Cancel

Project DemoBlaze

Test Case ID TC-Cart-03

MK Add a comment... Status update... Thanks... Agree...

Pro tip: press M to comment

Projects Filters Dashboards Teams Plans Apps Create Premium trial Search

DemoBlaze Project final

Summary Board List ... Calendar Timeline Approvals Forms Pages Attachments Issues Reports Archived Issues Shortcuts Share Filter Groups

Search list

MK EK +2

Type	# Key	Summary	Status	Comments	Assignee
DPF-10	DPF-10	None	DONE	Add comment	tsraa keraat
	DPF-12	User Signed up	DONE	Add comment	Esraa Refaat
	DPF-13	None	DONE	Add comment	Esraa Refaat
	DPF-5	None	DONE	Add comment	Esraa Refaat
	DPF-6	None	DONE	Add comment	Esraa Refaat
	DPF-11	None	DONE	Add comment	Esraa Refaat
	DPF-4	None	DONE	Add comment	Esraa Refaat
	DPF-8	None	DONE	Add comment	Esraa Refaat
	DPF-7	None	DONE	Add comment	Esraa Refaat
	DPF-9	User has signed up before	DONE	Add comment	Esraa Refaat
	DPF-10	None	DONE	Add comment	Esraa Refaat

+ Create

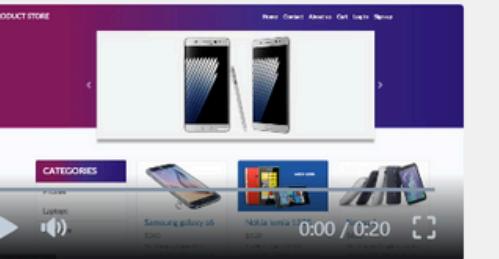
DPF-48

At least one item is in the cart,

+ Add @ Apps

Description

1. Open the Cart page.
2. Click the "Delete" link next to all products.
3. Observe the cart..



MK Add a comment... Status update... Thanks... Agree...

Pro tip: press M to comment

Done ✓ Done Actions

Details

Reporter MK Mostafa Kamal

Priority 0

Labels Cart

Due date None

Assignee EK Eman Khairy Assign to me

Time tracking No time logged

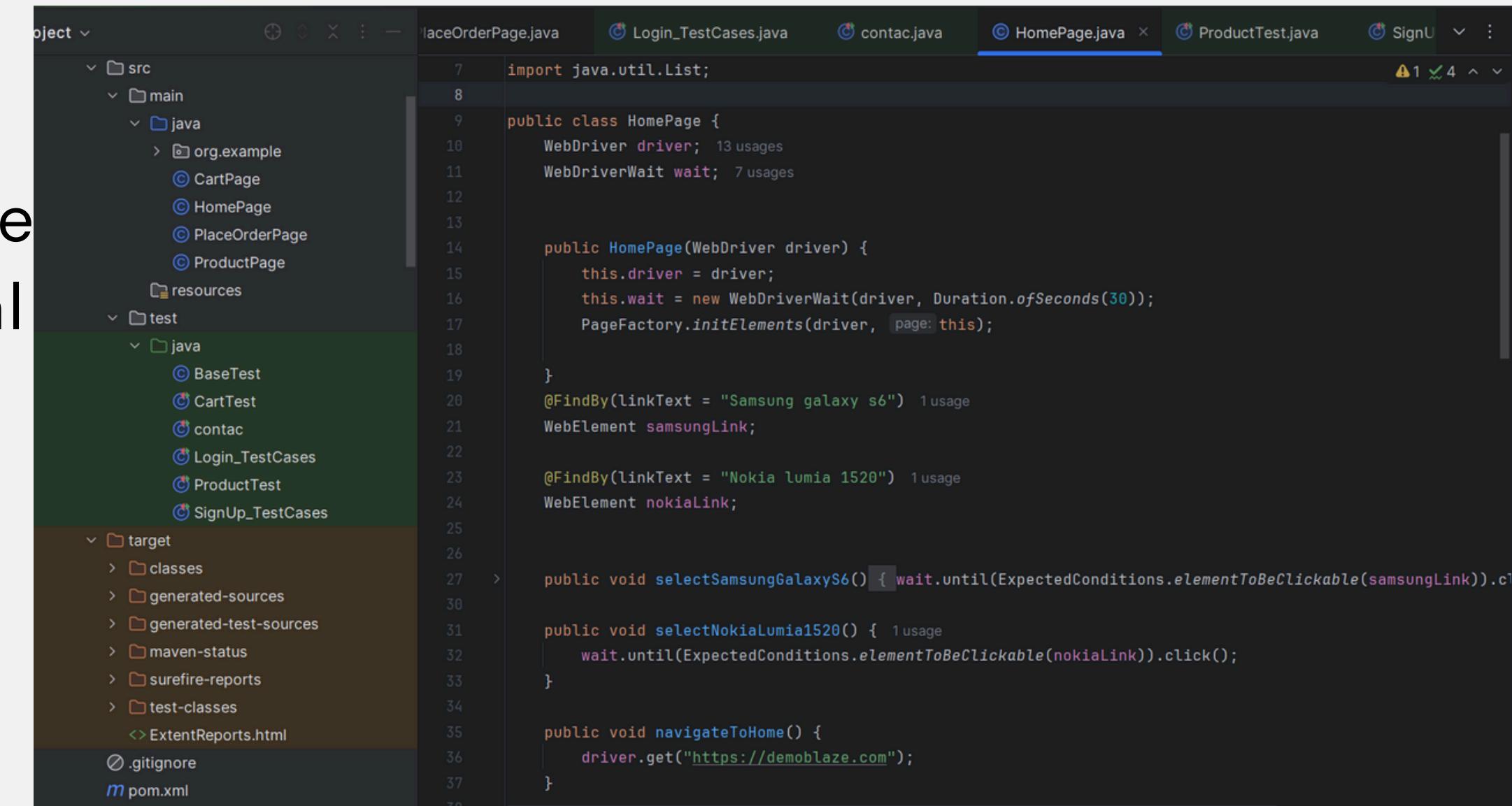
Start date None

Automation

Recent rule runs Refresh to see recent runs.

Automation Testing

- **Approach:** Implementing automated scripts and frameworks to validate software functionalities, reducing manual effort, and improving testing speed.
- **Scope:** Functional Testing: Automating key user flows
- **Tool:** Selenium



The screenshot shows a Java code editor within an IDE. The left pane displays the project structure under 'Project' mode, showing a package named 'org.example' containing several classes: PlaceOrderPage.java, CartPage.java, HomePage.java, PlaceOrderPage.java, ProductPage.java, BaseTest.java, CartTest.java, contac.java, Login_TestCases.java, ProductTest.java, and SignUp_TestCases.java. Below these are target folders for classes, generated-sources, generated-test-sources, maven-status, surefire-reports, test-classes, and ExtentReports.html, along with .gitignore and pom.xml files. The right pane shows the code for 'HomePage.java'. The code imports java.util.List and defines a HomePage class that takes a WebDriver driver as a parameter. It initializes a WebDriverWait wait with a duration of 30 seconds and uses PageFactory to initialize elements. It includes methods to select Samsung Galaxy S6 and Nokia Lumia 1520, and to navigate to the home page by getting the URL from the driver.

```
import java.util.List;
public class HomePage {
    WebDriver driver; 13 usages
    WebDriverWait wait; 7 usages
    public HomePage(WebDriver driver) {
        this.driver = driver;
        this.wait = new WebDriverWait(driver, Duration.ofSeconds(30));
        PageFactory.initElements(driver, this);
    }
    @FindBy(linkText = "Samsung galaxy s6") 1 usage
    WebElement samsungLink;
    @FindBy(linkText = "Nokia lumia 1520") 1 usage
    WebElement nokiaLink;
    public void selectSamsungGalaxyS6() { wait.until(ExpectedConditions.elementToBeClickable(samsungLink)).click(); }
    public void selectNokiaLumia1520() { 1 usage
        wait.until(ExpectedConditions.elementToBeClickable(nokiaLink)).click(); }
    public void navigateToHome() {
        driver.get("https://demoblaze.com");
    }
}
```

Reports & Bugs

Metrics: Pass/fail rates – Test coverage –
Tools: Extent Report, Jira –

The screenshot displays a software interface for test automation, specifically an Extent Report. On the left, a sidebar lists various test cases with their execution status (Pass). On the right, a detailed log for the "Add Samsung Galaxy S6 to Cart" test is shown, including timestamped logs and a summary of the process.

Tests

- Add Samsung Galaxy S6 to Cart (Pass)
- Add Nokia Lumia 1520 to Cart (Pass)
- Verify Cart Page (Pass)
- Delete Samsung Galaxy S6 from Cart (Pass)
- Verify Price Update (Pass)
- Delete Nokia Lumia 1520 from Cart (Pass)
- Submit Valid Order (Pass)
- Verify OK Button Functionality (Pass)

Add Samsung Galaxy S6 to Cart

04.13.2025 4:24:52PM 04.13.2025 4:24:58PM 00:00:05:436 · #test-id=1

Verify Samsung Galaxy S6 can be added to cart

STATUS	TIMESTAMP	DETAILS
Info	4:24:52 PM	Navigating to home page
Info	4:24:55 PM	Selecting Samsung Galaxy S6
Info	4:24:56 PM	Verifying Samsung product page
Info	4:24:57 PM	Adding Samsung to cart
Pass	4:24:58 PM	Successfully added Samsung Galaxy S6 to cart

Api Testing

- **Approach:** Endpoint validation
- **Target:** Trello, Reqres & Json place holder
- **Tool:** Postman
- **Outcome:** Reliable API performance

POST https://reqres.in/api/login

Body (JSON)

```
1 {  
2   "email": "eve.holt@reqres.in",  
3   "password": "cityslicka"  
4 }  
5 }
```

200 OK 202 ms 1.06 KB

```
1 {  
2   "token": "QpwL5tke4Pnpja7X4"  
3 }
```

GET https://mock.codes/403

Body (Raw)

```
1 {"statusCode":403,"description":"Forbidden"}
```

POST https://reqres.in/api/login

Body (JSON)

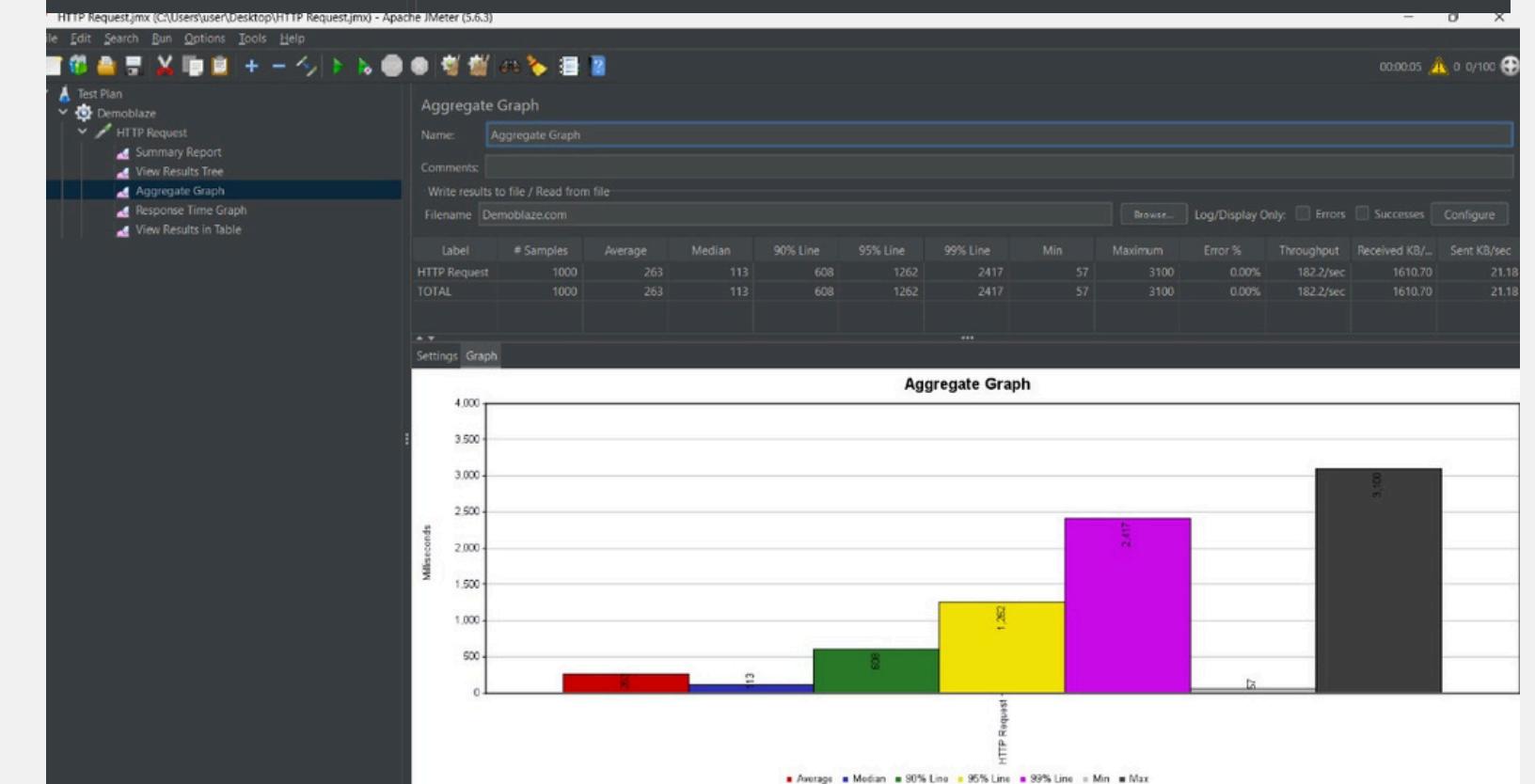
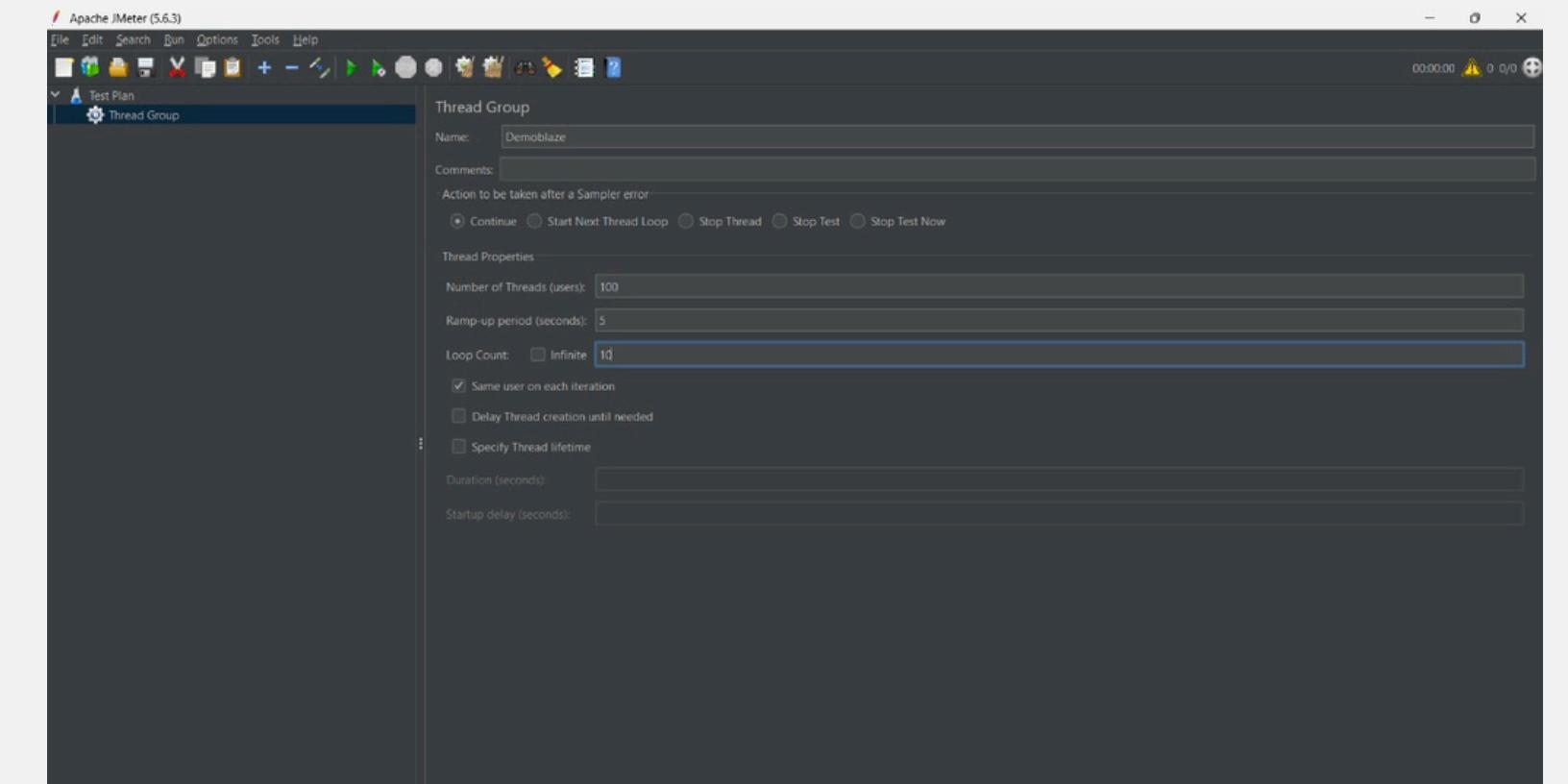
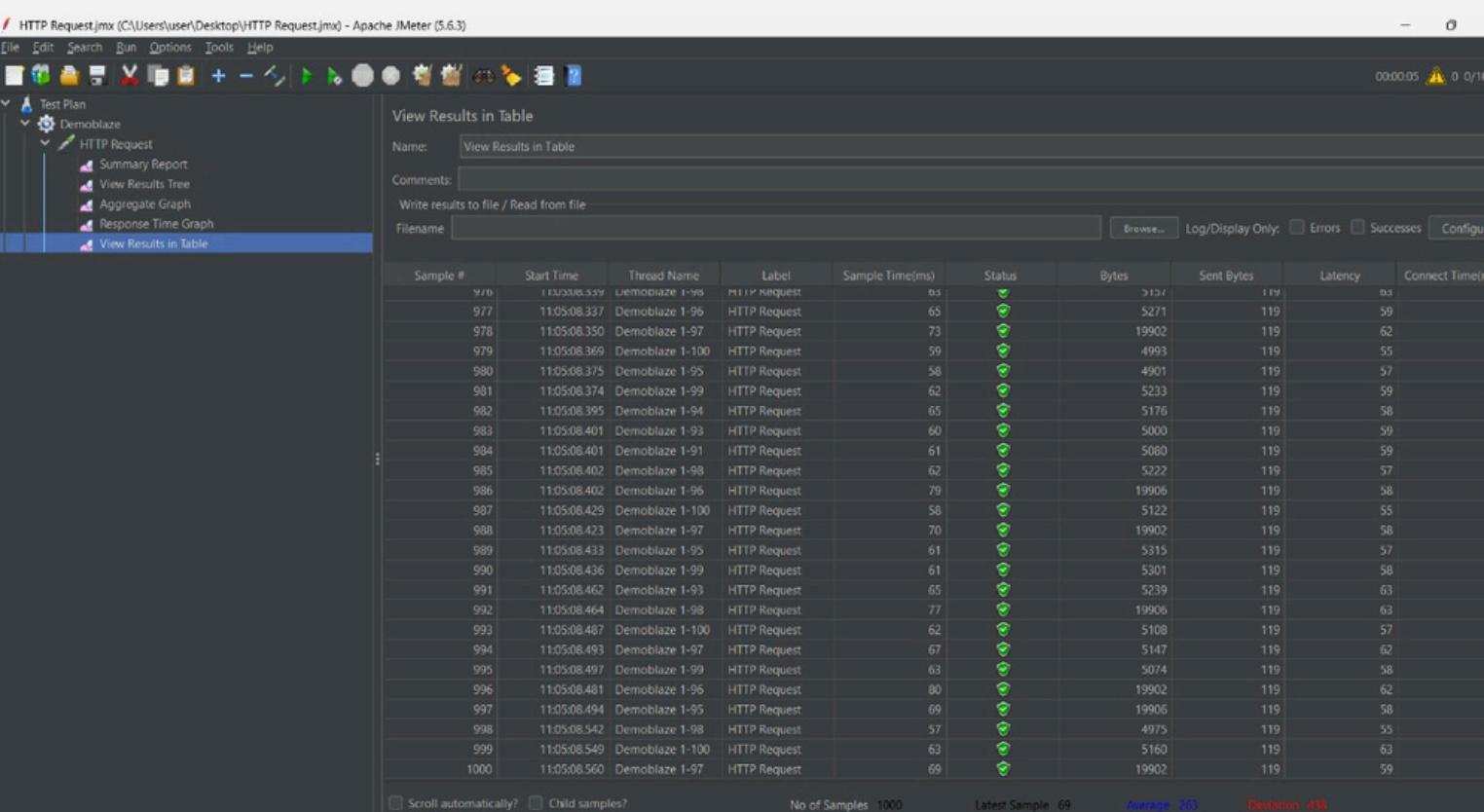
```
1 {  
2   "error": "Missing email or username"  
3 }
```

400 Bad Request

```
1 Use JavaScript to write tests, visualize response, and more. Ctrl+Alt+P for Postbot
```

Performance Testing

- **Approach:** Load & stress testing
- **Scope:** API response times
- **Tool:** JMeter



DB Testing

- **Approach:** Data integrity & performance
- **Scope:** – Schema validation – Query accuracy
- **Tools:** mySQL
- **Outcome:** Robust data operations

MySQL Workbench Screenshot:

Table: users

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
name	varchar(100)	YES		NULL	
email	varchar(100)	YES	UNE	NULL	
age	int	YES		NULL	
city	varchar(100)	YES		NULL	

Action Output:

- 1 10:54:57 call 'grad-proj.register_user'; ..
- 2 10:55:11 SELECT * FROM 'grad-proj'.users LIMIT 0, 1000
- 3 10:56:24 DESCRIBE users;

Message: Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'DELETE FROM `users` WHERE id = 19' at line 1

MySQL Workbench Screenshot:

Procedure: register_user

id	name	email	age	city
1	Alice Johnson	alice1@example.com	25	New York
2	Bob Smith	bob2@example.com	30	Los Angeles
3	Charlie Brown	charlie3@example.com	28	Chicago
4	David Clark	david4@example.com	35	Houston
5	Eva Adams	eva5@example.com	22	Phoenix
6	Frank Wright	frank6@example.com	40	Philadelphia
7	Grace Lee	grace7@example.com	27	San Antonio
8	Henry Ford	henry8@example.com	33	San Diego
9	Ivy Moore	ivy9@example.com	29	Dallas
10	Jack Ryan	jack10@example.com	31	San Jose
11	Kate Bell	kate11@example.com	26	Austin
12	Leo King	leo12@example.com	38	Jacksonville
13	Mia Scott	mia13@example.com	24	Fort Worth
14	Nick Wood	nick14@example.com	45	Columbus
15	Olivia Hall	olivia15@example.com	21	Charlotte
16	Paul Allen	paul16@example.com	34	San Francisco
17	Quinn Ray	quinn17@example.com	37	Indianapolis

Action Output:

Call stored procedure grad-proj.register_user

Enter values for parameters of your procedure and click <Execute> to create an SQL editor and run the call.

p_name [IN] VARCHAR(100)
p_email [IN] VARCHAR(100)
p_age [IN] INT
p_city [IN] VARCHAR(100)

Execute Cancel

CI/CD Integration

Tools: Jenkins

The image shows two screenshots of the Jenkins web interface. The top screenshot is the 'Sign in to Jenkins' page, featuring a cartoon character in a tuxedo holding a briefcase, set against a background of colorful radial rays. It includes fields for 'Username' (containing 'Ahmed_Noueldien'), 'Password' (containing '....'), a 'Keep me signed in' checkbox, and a blue 'Sign in' button. The bottom screenshot is the Jenkins 'Dashboard', showing a sidebar with links like 'New Item', 'Build History', 'Project Relationship', 'Check File Fingerprint', 'Manage Jenkins', and 'My Views'. A 'Build Queue' section indicates 'No builds in the queue.' The main area displays a table of build projects:

S	W	Name	Last Success	Last Failure	Last Duration
✓	☁️	Demo Freestyle project	12 hr #6	3 days 1 hr #4	0.73 sec
✓	⛅	Demo Test for pipeline	3 days 19 hr #6	3 days 19 hr #5	1.7 sec
✓	☀️	freestyle demo	2 days 22 hr #1	N/A	0.83 sec
✓	☀️	Pipe Test	2 days 22 hr #1	N/A	3.5 sec

Thank you