

# DEPI Graduation Project

---

By G5\_Team3

- Mohamed Emad Eldien
- Ahmed Kamal
- Moaz Elsayed
- Nourhan Ayman
- Ali Ashour

# Introduction

---

## Websites included:

- [Tricentes Demo Web Shop](#) (Manual & Automation)
- [Automation Exercise](#) (API)
- [OpenCart Demo](#) (Database - local hosting)

# **The scope in each site:**

## **1- Tricentes Demo Web Shop:**

- User registration & login
- Store's browsing & search
- Product's interactions
- Shopping cart & checkout
- Account management
- Contact & Info (is a plus)

## **2- OpenCart Demo (database tables of the following):**

- Customers
- Products
- Orders
- Cart
- Payments
- Wishlist
- Reviews

## **3- Automation Exercise Website:**

- APIs list

## **Testing Types:**

- Manual Testing:
  - Exploratory Testing
  - Functional Testing
  - Negative Testing
- Automation Testing
- API Testing
- Database Testing

## **Tools used:**

- Jira and Excel / Google Sheets  
(Test case management & bug tracking)
- Word / Google Docs  
(Documentation)
- MySQL & XAMPP  
(Local Host Database testing)
- Postman  
(API testing)
- IntelliJ IDE  
(Creating automation scripts)

# Muhammad Emad

---

# Tricentes Demo Web Shop (Manual & Automation)

---

## Module: Authentication

- Registration
- Login & Logout
- Forget Password
- Remember Me

# Registration

---

- Happy Scenario
- Some Negative Scenarios
- Failed test cases



# Demo Web Shop

Sample Application by Tricentis

[Register](#)[Log in](#)[Shopping cart\(1\)](#)[Wishlist\(0\)](#)

[BOOKS](#) | [COMPUTERS](#) | [ELECTRONICS](#) | [APPAREL & SHOES](#) | [DIGITAL DOWNLOADS](#) | [JEWELRY](#) | [GIFT CARDS](#)

## CATEGORIES

- ▶ Books
- ▶ Computers
- ▶ Electronics
- ▶ Apparel & Shoes
- ▶ Digital downloads
- ▶ Jewelry
- ▶ Gift Cards

## MANUFACTURERS

- ▶ Tricentis

## POPULAR TAGS

apparel awesome book  
camera cell compact  
computer cool digital  
jeans jewelry nice shirt  
shoes TCP

[View all](#)



## Speed changes everything.

The world's #1 testing and automation platform

Speed | Tricentis

## NEWSLETTER

Sign up for our newsletter:

## COMMUNITY POLL

Do you like nopCommerce?

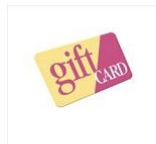
- ☐ Excellent  
☐ Good  
☐ Poor  
☐ Very bad

## Welcome to our store

Welcome to the new Tricentis store!

Feel free to shop around and explore everything.

## FEATURED PRODUCTS



\$25 Virtual Gift Card

★★★★☆  
25.00

[Add to cart](#)



14.1-inch Laptop

★★★★☆  
1590.00

[Add to cart](#)



Build your own cheap  
computer

★★★★☆  
800.00



# Demo Web Shop

Sample Application by Tricentis

[Register](#)[Log in](#)[Shopping cart\(1\)](#)[Wishlist\(0\)](#)

[BOOKS](#) | [COMPUTERS](#) | [ELECTRONICS](#) | [APPAREL & SHOES](#) | [DIGITAL DOWNLOADS](#) | [JEWELRY](#) | [GIFT CARDS](#)

## CATEGORIES

- ▶ Books
- ▶ Computers
- ▶ Electronics
- ▶ Apparel & Shoes
- ▶ Digital downloads
- ▶ Jewelry
- ▶ Gift Cards

## MANUFACTURERS

- ▶ Tricentis

## NEWSLETTER

Sign up for our newsletter:

## Register

### Your Personal Details

Gender: ☐ Male ☐ Female

First name:

Last name:

Email:

### Your Password

Password:

Confirm password:

## INFORMATION

[Sitemap](#)  
[Shipping & Returns](#)  
[Privacy Notice](#)  
[Conditions of Use](#)  
[About us](#)  
[Contact us](#)

## CUSTOMER SERVICE

[Search](#)  
[News](#)  
[Blog](#)  
[Recently viewed products](#)  
[Compare products list](#)  
[New products](#)

## MY ACCOUNT

[My account](#)  
[Orders](#)  
[Addresses](#)  
[Shopping cart](#)  
[Wishlist](#)

## FOLLOW US

[Facebook](#)  
[Twitter](#)  
[RSS](#)  
[YouTube](#)  
[Google+](#)

# Registration

---

- Happy Scenario
- Some Negative Scenarios
- Failed test cases

# Login

---

- Happy Scenario
- Some Negative Scenarios



# Demo Web Shop

Sample Application by Tricentis

[Register](#)[Log in](#)[Shopping cart\(1\)](#)[Wishlist\(0\)](#)[BOOKS](#) | [COMPUTERS](#) | [ELECTRONICS](#) | [APPAREL & SHOES](#) | [DIGITAL DOWNLOADS](#) | [JEWELRY](#) | [GIFT CARDS](#)

## CATEGORIES

- › Books
- › Computers
- › Electronics
- › Apparel & Shoes
- › Digital downloads
- › Jewelry
- › Gift Cards

## MANUFACTURERS

- › Tricentis

## NEWSLETTER

Sign up for our newsletter:

## Welcome, Please Sign In!

### New Customer

By creating an account on our website you will be able to shop faster, be up to date on an orders status, and keep track of the orders you have previously made.

### Returning Customer

Email:

Password:

☐ Remember me?

[Forgot password?](#)

## About login / registration

Put your login / registration information here. You can edit this in the admin site.

## INFORMATION

[Sitemap](#)  
[Shipping & Returns](#)  
[Privacy Notice](#)  
[Conditions of Use](#)  
[About us](#)  
[Contact us](#)

## CUSTOMER SERVICE

[Search](#)  
[News](#)  
[Blog](#)  
[Recently viewed products](#)  
[Compare products list](#)  
[New products](#)

## MY ACCOUNT

[My account](#)  
[Orders](#)  
[Addresses](#)  
[Shopping cart](#)  
[Wishlist](#)

## FOLLOW US

[Facebook](#)  
[Twitter](#)  
[RSS](#)  
[YouTube](#)  
[Google+](#)



# Demo Web Shop

Sample Application by Tricentis

mohamed123.aziz@test150.com

Log out

Shopping cart(1)

Wishlist(0)

Search store

Search

BOOKS | COMPUTERS | ELECTRONICS | APPAREL & SHOES | DIGITAL DOWNLOADS | JEWELRY | GIFT CARDS

## CATEGORIES

- › Books
- › Computers
- › Electronics
- › Apparel & Shoes
- › Digital downloads
- › Jewelry
- › Gift Cards

## MANUFACTURERS

- › Tricentis

## POPULAR TAGS

apparel awesome book  
camera cell compact  
computer cool digital  
jeans jewelry nice shirt  
shoes TCP  
View all



## NEWSLETTER

Sign up for our newsletter:

## COMMUNITY POLL

Do you like nopCommerce?

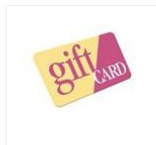
- ☐ Excellent  
☐ Good  
☐ Poor  
☐ Very bad

## Welcome to our store

Welcome to the new Tricentis store!

Feel free to shop around and explore everything.

## FEATURED PRODUCTS



\$25 Virtual Gift Card

★★★★☆  
25.00



14.1-inch Laptop

★★★★☆  
1590.00



Build your own cheap  
computer

★★★★☆  
800.00

# Login

---

- Happy Scenario
- Some Negative Scenarios

# Logout

---

- Happy Scenario
- Some Negative Scenarios
- Failed test cases



# Demo Web Shop

Sample Application by Tricentis

mohamed123.aziz@test150.com

Log out

Shopping cart(1)

Wishlist(0)

Search store

Search

BOOKS | COMPUTERS | ELECTRONICS | APPAREL & SHOES | DIGITAL DOWNLOADS | JEWELRY | GIFT CARDS

## CATEGORIES

- › Books
- › Computers
- › Electronics
- › Apparel & Shoes
- › Digital downloads
- › Jewelry
- › Gift Cards

## MANUFACTURERS

- › Tricentis

## POPULAR TAGS

apparel awesome book  
camera cell compact  
computer cool digital  
jeans jewelry nice shirt  
shoes TCP

View all



## NEWSLETTER

Sign up for our newsletter:

Subscribe

## COMMUNITY POLL

Do you like nopCommerce?

- ☐ Excellent  
☐ Good  
☐ Poor  
☐ Very bad

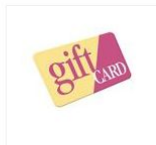
Vote

## Welcome to our store

Welcome to the new Tricentis store!

Feel free to shop around and explore everything.

## FEATURED PRODUCTS



\$25 Virtual Gift Card

★★★★☆  
25.00

Add to cart



14.1-inch Laptop

★★★★☆  
1590.00

Add to cart



Build your own cheap  
computer

★★★★☆  
800.00

# Logout

---

- Happy Scenario
- Some Negative Scenarios
- Failed test cases





# Demo Web Shop

Sample Application by Tricentis

[Register](#)[Log in](#)[Shopping cart\(1\)](#)[Wishlist\(0\)](#)[BOOKS](#)[COMPUTERS](#)[ELECTRONICS](#)[APPAREL & SHOES](#)[DIGITAL DOWNLOADS](#)[JEWELRY](#)[GIFT CARDS](#)

## CATEGORIES

- › Books
- › Computers
- › Electronics
- › Apparel & Shoes
- › Digital downloads
- › Jewelry
- › Gift Cards

## MANUFACTURERS

- › Tricentis

## NEWSLETTER

Sign up for our newsletter:

## Welcome, Please Sign In!

### New Customer

By creating an account on our website you will be able to shop faster, be up to date on an orders status, and keep track of the orders you have previously made.

### Returning Customer

Email:

Password:

☐ Remember me?

[Forgot password?](#)

## About login / registration

Put your login / registration information here. You can edit this in the admin site.

## INFORMATION

[Sitemap](#)  
[Shipping & Returns](#)  
[Privacy Notice](#)  
[Conditions of Use](#)  
[About us](#)  
[Contact us](#)

## CUSTOMER SERVICE

[Search](#)  
[News](#)  
[Blog](#)  
[Recently viewed products](#)  
[Compare products list](#)  
[New products](#)

## MY ACCOUNT

[My account](#)  
[Orders](#)  
[Addresses](#)  
[Shopping cart](#)  
[Wishlist](#)

## FOLLOW US

[Facebook](#)  
[Twitter](#)  
[RSS](#)  
[YouTube](#)  
[Google+](#)

# Logout

---

- Happy Scenario
- Some Negative Scenarios
- Failed test cases

# Forget Password

---

- Happy Scenario
- Some Negative Scenarios
- Failed test cases
- Blocked cases



# Demo Web Shop

Sample Application by Tricentis

[Register](#)[Log in](#)[Shopping cart\(1\)](#)[Wishlist\(0\)](#)[BOOKS](#) | [COMPUTERS](#) | [ELECTRONICS](#) | [APPAREL & SHOES](#) | [DIGITAL DOWNLOADS](#) | [JEWELRY](#) | [GIFT CARDS](#)

## CATEGORIES

- › Books
- › Computers
- › Electronics
- › Apparel & Shoes
- › Digital downloads
- › Jewelry
- › Gift Cards

## MANUFACTURERS

- › Tricentis

## NEWSLETTER

Sign up for our newsletter:

## Welcome, Please Sign In!

### New Customer

By creating an account on our website you will be able to shop faster, be up to date on an orders status, and keep track of the orders you have previously made.

### Returning Customer

Email:

Password:

☐ Remember me?

[Forgot password?](#)

### About login / registration

Put your login / registration information here. You can edit this in the admin site.

## INFORMATION

[Sitemap](#)  
[Shipping & Returns](#)  
[Privacy Notice](#)  
[Conditions of Use](#)  
[About us](#)  
[Contact us](#)

## CUSTOMER SERVICE

[Search](#)  
[News](#)  
[Blog](#)  
[Recently viewed products](#)  
[Compare products list](#)  
[New products](#)

## MY ACCOUNT

[My account](#)  
[Orders](#)  
[Addresses](#)  
[Shopping cart](#)  
[Wishlist](#)

## FOLLOW US

[Facebook](#)  
[Twitter](#)  
[RSS](#)  
[YouTube](#)  
[Google+](#)



# Demo Web Shop

Sample Application by Tricentis

[Register](#)[Log in](#)[Shopping cart\(0\)](#)[Wishlist\(0\)](#)[BOOKS](#)[COMPUTERS](#)[ELECTRONICS](#)[APPAREL & SHOES](#)[DIGITAL DOWNLOADS](#)[JEWELRY](#)[GIFT CARDS](#)

## CATEGORIES

[› Books](#)[› Computers](#)[› Electronics](#)[› Apparel & Shoes](#)[› Digital downloads](#)[› Jewelry](#)[› Gift Cards](#)

## MANUFACTURERS

[› Tricentis](#)

## NEWSLETTER

Sign up for our newsletter:

## Password recovery

Please enter your email address below. You will receive a link to reset your password.

Your email address:

## INFORMATION

[Sitemap](#)[Shipping & Returns](#)[Privacy Notice](#)[Conditions of Use](#)[About us](#)[Contact us](#)

## CUSTOMER SERVICE

[Search](#)[News](#)[Blog](#)[Recently viewed products](#)[Compare products list](#)[New products](#)

## MY ACCOUNT

[My account](#)[Orders](#)[Addresses](#)[Shopping cart](#)[Wishlist](#)

## FOLLOW US

[Facebook](#)[Twitter](#)[RSS](#)[YouTube](#)[Google+](#)

# Forget Password

---

- Happy Scenario
- Some Negative Scenarios
- Failed test cases
- Blocked cases

# Remember Me

---

- Happy Scenario
- Some Negative Scenarios
- Failed test cases



# Demo Web Shop

Sample Application by Tricentis

[Register](#)[Log in](#)[Shopping cart\(1\)](#)[Wishlist\(0\)](#)[BOOKS](#) | [COMPUTERS](#) | [ELECTRONICS](#) | [APPAREL & SHOES](#) | [DIGITAL DOWNLOADS](#) | [JEWELRY](#) | [GIFT CARDS](#)

## CATEGORIES

- › Books
- › Computers
- › Electronics
- › Apparel & Shoes
- › Digital downloads
- › Jewelry
- › Gift Cards

## MANUFACTURERS

- › Tricentis

## NEWSLETTER

Sign up for our newsletter:

## Welcome, Please Sign In!

### New Customer

By creating an account on our website you will be able to shop faster, be up to date on an orders status, and keep track of the orders you have previously made.

### Returning Customer

Email:

Password:

☐ Remember me?[Forgot password?](#)

### About login / registration

Put your login / registration information here. You can edit this in the admin site.

## INFORMATION

[Sitemap](#)  
[Shipping & Returns](#)  
[Privacy Notice](#)  
[Conditions of Use](#)  
[About us](#)  
[Contact us](#)

## CUSTOMER SERVICE

[Search](#)  
[News](#)  
[Blog](#)  
[Recently viewed products](#)  
[Compare products list](#)  
[New products](#)

## MY ACCOUNT

[My account](#)  
[Orders](#)  
[Addresses](#)  
[Shopping cart](#)  
[Wishlist](#)

## FOLLOW US

[Facebook](#)  
[Twitter](#)  
[RSS](#)  
[YouTube](#)  
[Google+](#)

# Remember Me

---

- Happy Scenario
- Some Negative Scenarios
- Failed test cases

# Automation Showcase

---

- Using TestNG
- Using Cucumber

# Automation Exercise Website (API)

---

APIs Assigned to me:

- POST To Verify Login without email parameter
- POST To Create/Register User Account
- PUT METHOD To Update User Account

# POST To Verify Login without email parameter

---

- Base test case
- Some additional cases

POST

https://automationexercise.com/api/verifyLogin

Send


Docs Params Authorization Headers (8) **Body** Scripts Settings

Cookies

☐ none ☐ form-data ☒ x-www-form-urlencoded ☐ raw ☐ binary ☐ GraphQL

	Key	Value	Description	...	Bulk Edit
<input type="checkbox"/>	email	test1233@example.com			
<input type="checkbox"/>	email	test1233@example.com			
<input checked="" type="checkbox"/>	password	Abc@1234			
	Key	Value	Description		

Body Cookies Headers (18) Test Results 

200 OK • 833 ms • 894 B •  Save Response ...

HTML

Preview

Visualize

```
1 {"responseCode": 400, "message": "Bad request, email or password parameter is missing in POST request."}
```

# POST To Verify Login without email parameter

---

- Base test case
- Some additional cases
- Failed test cases



POST

https://automationexercise.com/api/verifyLogin

Send

Docs Params Authorization Headers (8) **Body** Scripts Settings

Cookies

☐ none ☐ form-data ☒ x-www-form-urlencoded ☐ raw ☐ binary ☐ GraphQL

	Key	Value	Description	...	Bulk Edit
<input type="checkbox"/>	email	test1233@example.com			
<input checked="" type="checkbox"/>	email	TEST1233@example.com			
<input checked="" type="checkbox"/>	password	Abc@1234			
	Key	Value	Description		

Body Cookies Headers (18) Test Results

200 OK • 832 ms • 856 B • Save Response ...

HTML Preview Visualize

```
1 {"responseCode": 404, "message": "User not found!"}
```

# POST To Create/Register User Account

---

- Base test case
- Some additional cases

POST <https://automationexercise.com/api/createAccount>

Send

Docs Params Authorization Headers (8) **Body** Scripts Settings

Cookies

☐ none ☐ form-data ☒ x-www-form-urlencoded ☐ raw ☐ binary ☐ GraphQL

<input checked="" type="checkbox"/>	name	John Smith
<input checked="" type="checkbox"/>	email	TEST1122334@example.com
<input checked="" type="checkbox"/>	password	Abc@1234
<input checked="" type="checkbox"/>	title	Mr
<input checked="" type="checkbox"/>	birth_date	22
<input checked="" type="checkbox"/>	birth_month	2
<input checked="" type="checkbox"/>	birth_year	1979
<input checked="" type="checkbox"/>	firstname	John
<input checked="" type="checkbox"/>	lastname	Smith
<input checked="" type="checkbox"/>	company	TechCorp
<input checked="" type="checkbox"/>	address1	123 Main St
<input checked="" type="checkbox"/>	address2	Apt 4
<input checked="" type="checkbox"/>	country	USA
<input checked="" type="checkbox"/>	zipcode	ABC12345
<input checked="" type="checkbox"/>	state	California
<input checked="" type="checkbox"/>	city	Los Angeles
<input checked="" type="checkbox"/>	mobile_number	123456789

Body Cookies Headers (18) Test Results

200 OK • 378 ms • 837 B • Save Response

HTML Preview Visualize

```
1 {"responseCode": 201, "message": "User created!"}
```

# POST To Create/Register User Account

---

- Base test case
- Some additional cases
- Failed test cases

# Email already registered:

## Wrong response code

HTTP Grad Project API Testing / Muhammad Emad / Create Account

POST <https://automationexercise.com/api/createAccount> Send

Docs Params Authorization Headers (8) **Body** Scripts Settings

☐ none ☐ form-data ☒ x-www-form-urlencoded ☐ raw ☐ binary ☐ GraphQL

	Key	Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/>	name	John Smith			
<input checked="" type="checkbox"/>	email	test112233@example.com			

**Body** Cookies Headers (18) Test Results

200 OK • 867 ms • 845 B Save Response ...

HTML Preview Visualize

```
1 {"statusCode": 400, "message": "Email already exists!"}
```

POST

https://automationexercise.com/api/createAccount

Send

Docs Params Authorization Headers (8) Body Scripts Settings

Cookies

☐ none ☐ form-data ☒ x-www-form-urlencoded ☐ raw ☐ binary ☐ GraphQL

<input checked="" type="checkbox"/> name	John Smith
<input checked="" type="checkbox"/> email	hello
<input checked="" type="checkbox"/> password	1
<input checked="" type="checkbox"/> title	Mr
<input checked="" type="checkbox"/> birth_date	57
<input checked="" type="checkbox"/> birth_month	56
<input checked="" type="checkbox"/> birth_year	hi
<input checked="" type="checkbox"/> firstname	John
<input checked="" type="checkbox"/> lastname	Smith
<input checked="" type="checkbox"/> company	TechCorp
<input checked="" type="checkbox"/> address1	123 Main St
<input checked="" type="checkbox"/> address2	Apt 4
<input checked="" type="checkbox"/> country	Mars
<input checked="" type="checkbox"/> zipcode	ABC12345
<input checked="" type="checkbox"/> state	California
<input checked="" type="checkbox"/> city	Los Angeles
<input checked="" type="checkbox"/> mobile_number	not a number

Body Cookies Headers (18) Test Results

200 OK • 855 ms • 833 B • Save Response

HTML Preview Visualize

```
1 {"responseCode": 201, "message": "User created!"}
```

# PUT METHOD To Update User Account

---

- Base test case
- Some additional cases

PUT

https://automationexercise.com/api/updateAccount

Send

Docs Params Authorization Headers (8) Body Scripts Settings

Cookies

☐ none ☐ form-data ☒ x-www-form-urlencoded ☐ raw ☐ binary ☐ GraphQL

	Key	Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/>	name	John Smithss			
<input checked="" type="checkbox"/>	email	test1233@example.com			
<input checked="" type="checkbox"/>	password	Abc@1234			
<input checked="" type="checkbox"/>	title	Mr			
<input checked="" type="checkbox"/>	birth_date	22			
<input checked="" type="checkbox"/>	birth_month	2			
<input checked="" type="checkbox"/>	birth_year	1979			
<input checked="" type="checkbox"/>	firstname	John			
<input checked="" type="checkbox"/>	lastname	Smith			
<input checked="" type="checkbox"/>	company	TechCorp			
<input checked="" type="checkbox"/>	address1	123 Main St			
<input checked="" type="checkbox"/>	address2	Apt 4			
<input checked="" type="checkbox"/>	country	USA			
<input checked="" type="checkbox"/>	zipcode	ABC12345			
<input checked="" type="checkbox"/>	state	California			
<input checked="" type="checkbox"/>	city	Los Angeles			
<input checked="" type="checkbox"/>	mobile_number	12345678			

Body Cookies Headers (18) Test Results

200 OK • 1.09 s • 832 B • Save Response

HTML Preview Visualize

```
1 {"responseCode": 200, "message": "User updated!"}
```

# PUT METHOD To Update User Account

---

- Base test case
- Some additional cases
- Failed test cases

# Registered Email but in Uppercase

Grad Project API Testing / Muhammad Emad / **Update Account**

PUT <https://automationexercise.com/api/updateAccount> **Send**

Docs Params Authorization Headers (8) **Body** Scripts Settings

☐ none ☐ form-data ☒ x-www-form-urlencoded ☐ raw ☐ binary ☐ GraphQL

	Key	Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/>	name	John Smithss			
<input checked="" type="checkbox"/>	email	TEST1233@example.com			
<input checked="" type="checkbox"/>	password	Abc@123423			
<input checked="" type="checkbox"/>	title	Mr			
<input checked="" type="checkbox"/>	...	...			

**Body** Cookies Headers (18) Test Results

HTML Preview Visualize

1 {"responseCode": 404, "message": "Account not found!"}

200 OK • 845 ms • 841 B • Save Response ...



PUT

https://automationexercise.com/api/updateAccount

Send



Docs Params Authorization Headers (8) **Body** Scripts Settings

Cookies

☐ none ☐ form-data ☒ x-www-form-urlencoded ☐ raw ☐ binary ☐ GraphQL

	Key	Value	Description	⋮ Bulk Edit
<input checked="" type="checkbox"/>	name	John Smithss		🗑
<input checked="" type="checkbox"/>	email	test1233@example.com		
<input checked="" type="checkbox"/>	password	Abc@1234		
<input checked="" type="checkbox"/>	title	Mr		
<input checked="" type="checkbox"/>	birth_date	35		
<input checked="" type="checkbox"/>	birth_month	14		
<input checked="" type="checkbox"/>	birth_year	hi		
<input checked="" type="checkbox"/>	firstname	John		
<input checked="" type="checkbox"/>	lastname	Smith		
<input checked="" type="checkbox"/>	company	TechCorp		
<input checked="" type="checkbox"/>	address1	123 Main St		
<input checked="" type="checkbox"/>	address2	Apt 4		
<input checked="" type="checkbox"/>	country	mars		
<input checked="" type="checkbox"/>	zipcode	ABC12345		
<input checked="" type="checkbox"/>	state	California		
<input checked="" type="checkbox"/>	city	Los Angeles		
<input checked="" type="checkbox"/>	mobile_number	abcd		

Body Cookies Headers (18) Test Results ⓘ

200 OK • 889 ms • 828 B • 🌐 📄 Save Response ⋮

HTML ▾ ▶ Preview 🖼 Visualize ▾

🔍 🗑 🔍 📄 🔄

1 {"responseCode": 200, "message": "User updated!"}

# OpenCart Demo (Database - local hosting)

## Work done:

- **Setup localhost** for OpenCart Demo.
- **Explored** the **site**, **admin** page, and the **database**.
- **Designed** the **test cases** for the database (23 TCs).

# Ahmed Kamal

---

# Tricentes Demo Web Shop (Manual & Automation)

---

Module: Exploratory products

- Product explority
- Add to cart (function)
- Add to compare list (function)
- Add review (function)

# Tricentes Demo Web Shop (Manual & Automation)

---

Module: Exploratory products

- Add review (function)
- Related product (non functional)
- E-mail Friend (Function)

# Scenario for all Modules

---

## Manual Testing

- Functional Testing
- Non Functional Testing

# Scenario for all Modules

---

## Automation Testing

- Using for Regression Testing
- Using TestNG

# Automation Exercise Website (API)

---

APIs Assigned to me:

- Post to Search product Without parameter
- Delete User Account

# Moaz Elsayed

---

# Tricentes Demo Web Shop Manual

---

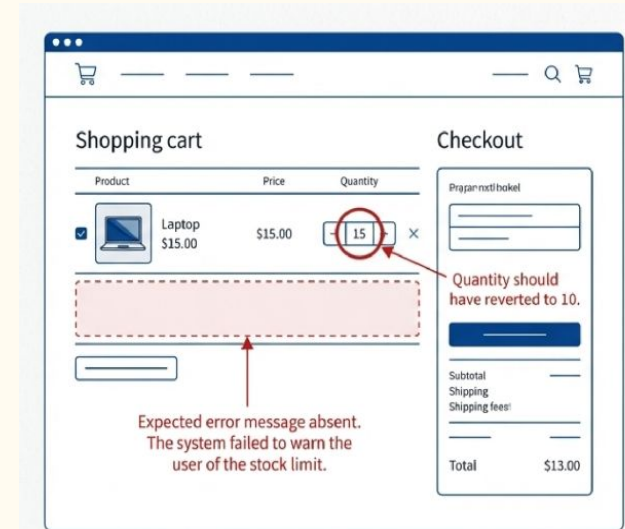
## Module: Shopping Cart

- Add / Remove products
- Update quantity
- Apply coupon or gift card
- Verify subtotal, tax, and total
- “Continue Shopping” navigation
- Empty cart and icon updates

# Uncovering a Critical Flaw in Stock Validation Logic

Scenario: Verifying that increasing an item's quantity beyond available stock triggers a proper error message.

- Expected: Show error "Only 10 items available," auto-correct to 10.
- Actual: No error displayed; invalid quantity accepted.
- Impact: Users may place unfulfillable orders; logged as High Priority defect.



# Automation Exercise Website (API)

---

APIs Assigned to me:

- GET /Get All Brands List
- POST /POST to All Products List
- DELETE /DELETE to Verify Login

# Best case scenario ( valid inputs).

+

Search collections

>

Assignment

>

Grad Project API Testing

>

Muhammad Emad

>

Nour Ayman

>

Moaz Elsayed

>

Ali Ashour

>

Ahmed Kamal

>

My Collection

GET

Verify GET returns all brand nam...

GET

Verify API returns error for invali...

GET

Verify POST request to brandsLi...

GET

POST To All Products List

GET

Verify GET to productsList retur...

GET

Verify invalid URL returns 404

GET

Verify DELETE to verifyLogin ret...

GET

Verify POST with valid login cre...

GET

Verify DELETE with wrong endp...

Grad Project API Testing / Moaz Elsayed / Verify POST with valid login credentials works

Save

Share

POST

https://automationexercise.com/api/verifyLogin

Send

Docs

Params

Authorization

Headers (9)

Body

Scripts

Settings

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

Key	Value	Description
<input checked="" type="checkbox"/> email	Text <div>moaztota74@gmail.com</div>	
<input checked="" type="checkbox"/> password	Text <div>12345678</div>	
Key	Text <div>Value</div>	Description

Body

Cookies

Headers (18)

Test Results

200 OK • 997 ms • 857 B

Save Response

HTML

Preview

Visualize

1

```
{ "responseCode": 200, "message": "User exists!" }
```

oud View

Find and replace

Console

Terminal

Runner

Start Proxy

Cookies

Vault

Trash

# Negative scenario (Invalid inputs).

AMIT Team's Workspace

New Import

+

Search collections

>

Assignment

>

Grad Project API Testing

>

Muhammad Emad

>

Nour Ayman

>

Moaz Elsayed

>

Ali Ashour

>

Ahmed Kamal

>

My Collection

GET Verify GET returns all brand nam...

GET Verify API returns error for invali...

GET Verify POST request to brandsLi...

GET POST To All Products List

GET Verify GET to productList retur...

GET Verify invalid URL returns 404

GET Verify DELETE to verifyLogin ret...

GET Verify POST with valid login cre...

GET Verify DELETE with wrong endp...

Grad Project API Testing / Moaz Elsayed / Verify API returns error for invalid endpoint

GET

https://automationexercise.com/api/brandsListXYZ

Send

Docs

Params

Authorization

Headers (7)

Body

Scripts

Settings

Query Params

Key	Value	Description
Key	Value	Description

Body

Cookies

Headers (17)

Test Results

404 Not Found • 304 ms • 1.96 KB • Save Response

HTML

Preview

Debug with AI

```

1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5   <meta http-equiv="content-type" content="text/html; charset=utf-8">
6   <title>Page not found at /api/brandsListXYZ
7 </title>
8   <meta name="robots" content="NONE,NOARCHIVE">
9   <style type="text/css">
10     html * {
11       padding: 0;

```

Full View

Find and replace

Console

Terminal

Runner

Start Proxy

Cookies

Vault

Trash

# Database Verification — Ensuring Data Integrity

---

- Confirmed that frontend actions and API processing are correctly saved in the database.
- Environment: Local OpenCart on XAMPP.
- Method: SQL queries executed in phpMyAdmin after each transaction.
- Total Queries: 5
- Result: 100% Match (5/5) — data fully aligned with system behavior.

# Confirming Transactional Accuracy with SQL Queries

---

- Order Creation: Verified new records appear in `oc_order` after checkout.
- Product Matching: Confirmed product IDs and quantities in `oc_order_product` match the user's cart.
- Coupon Validation: Ensured coupon usage is logged in `oc_coupon_history`.

# Nourhan Aymman

---

# Tricentes Demo Web Shop (Manual & Automation)

---

## Module: Account Management

- Exploratory testing
- Customer Info
- Addresses
- Order
- Downloadable products
- Change password
- Reward points
- Back in stock

# Customer Info Automation Tests

---

Demo : Tests

# Addresses Automation Tests

---

Demo : Tests

# Tricentes Demo Web Shop (Manual & Automation)

---

## Module: Checkout & Payment

- Exploratory testing
- Billing Address
- Shipping Address & Method
- Payment Info & Method
- Order Confirmation

# Checkout Automation Tests

---

Demo : Tests

# Automation Exercise Website (API)

---

APIs Assigned to me:

- POST To Verify Login with valid details
- POST To Verify Login with invalid details
- GET user account detail by email

# POST To Verify Login with valid & invalid details

---

## Authentication / Login API Coverage

- Valid Login Scenarios
- Method Validation
- Case Sensitivity
- Missing and Empty Fields
- Invalid Credentials
- Invalid Request Structure

# Environment variables

Variables in request

E	BaseUrl	https://automationexercis...
E	LoginRequestEndPoint	/api/verifyLogin
E	CorrectEmail	Nxxx@gmail.com
E	CorrectPassword	Nxxx@1234

> All variables

# Best case scenario ( valid inputs).

HTTP Grad Project API Testing / Nour Ayman / LoginRequest / ValidDataTestCases / Verify login with valid email and password

POST `{{BaseUrl}} {{LoginRequestEndPoint}}` Send

Docs Params Authorization Headers (9) **Body** Scripts Settings Cookies

☐ none ☒ form-data ☐ x-www-form-urlencoded ☐ raw ☐ binary ☐ GraphQL

	Key		Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/>	email	Text	<code>{{CorrectEmail}}</code>			
<input checked="" type="checkbox"/>	password	Text	<code>{{CorrectPassword}}</code>			
<input type="checkbox"/>	name	Text				
	Key	Text	Value	Description		

Body Cookies Headers (18) Test Results (3/3) 200 OK • 586 ms • 855 B • Save Response

HTML Preview Visualize

```
1 {"responseCode": 200, "message": "User exists!"}
```

# Negative scenario (Invalid inputs).

HTTP Grad Project API Testing / Nour Ay... / LoginRequest / InvalidDataTestCases / Verify login with unauthenticated email and password

POST {{BaseUrl}} {{LoginRequestEndPoint}}

Send

Docs Params Authorization Headers (9) **Body** Scripts Settings Cookies

☐ none ☒ form-data ☐ x-www-form-urlencoded ☐ raw ☐ binary ☐ GraphQL

	Key		Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/>	email	Text	Nxxxx@gmail.com			
<input checked="" type="checkbox"/>	password	Text	Nxxxx@1234			
<input type="checkbox"/>	name	Text				
	Key	Text	Value	Description		

Body Cookies Headers (18) Test Results (3/3) 200 OK • 781 ms • 854 B • Save Response

HTML Preview Visualize

```
1 {"responseCode": 404, "message": "User not found!"}
```

# Negative scenario (Invalid inputs).

Grad Project API Tes x POST Verify login with valid e POST Verify login with unaut + New Environment

HTTP Grad Project API Testing / Nour Ay... / LoginRequest / InvalidDataTestCases / Verify login with unauthenticated email and password Save Share

POST {{BaseUrl}} {{LoginRequestEndPoint}}

Send

Docs Params Authorization Headers (9) Body Scripts Settings Cookies

Pre-request

Post-response

```
1
2 pm.test("Status code is 200", function () {
3   pm.response.to.have.status(200);
4 });
5 pm.test("Response time is less than 1000ms", function () {
6   pm.expect(pm.response.responseTime).to.be.below(1000);
7 });
8
9 pm.test("Response body exactly matches expected JSON", function () {
10   const expected = {"responseCode": 404, "message": "User not found!"};
11
12   let actual = pm.response.json();
13
14   pm.expect(actual).to.deep.equal(expected);
15 });
```

Body Cookies Headers (18) Test Results (3/3) 200 OK • 781 ms • 854 B • Save Response

Filter Results

- PASSED Status code is 200
- PASSED Response time is less than 1000ms
- PASSED Response body exactly matches expected JSON

# GET user account detail by email

---

## Get User Details API Coverage

- Valid User Retrieval
- Invalid Email Handling
- Missing Parameters
- Case Sensitivity
- Method Validation

# Best case scenario (valid parameters).

HTTP Grad Project API Testing / Nour Ayman / DetailsRequest / **Verify GET user account details by valid email** Save Share

GET Send

Params Authorization Headers (9) Body Scripts Settings Cookies

Query Params

<input checked="" type="checkbox"/>	Key	Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/>	email	{{CorrectEmail}}			
	Key	Value	Description		

Body Cookies Headers (18) Test Results (2/3) 200 OK 1.27 s 1.13 KB Save Response

HTML Preview Visualize

```

1  {"responseCode": 200, "user": {"id": 1076982, "name": "Nxxx", "email": "Nxxx@gmail.com", "title": "Miss", "birth_day":
2  "14", "birth_month": "9", "birth_year": "2002", "first_name": "Nxxx", "last_name": "Axxxx", "company": "OpenAi",
3  "address1": "Cairo", "address2": "Cairo", "country": "Egypt", "state": "Cairo", "city": "Cairo", "zipcode": "00000"}}

```

# Negative scenario (Invalid inputs).

HTTP Grad Project API Testing / Nour Ayman / DetailsRequest / Verify GET login without email parameter

GET {{BaseUrl}} {{DetailsREquestEndPoint}}

Send

Docs Params Authorization Headers (7) Body Scripts Settings Cookies

Query Params

<input type="checkbox"/>	Key	Value	Description	...	Bulk Edit
<input type="checkbox"/>	email	{{CorrectEmail}}			
	Key	Value	Description		

Body Cookies Headers (18) Test Results (3/3) 200 OK • 537 ms • 898 B • Save Response

HTML Preview Visualize

```
1 {"responseCode": 400, "message": "Bad request, email parameter is missing in GET request."}
```

# Ali Ashour

---

# Tricentes Demo Web Shop (Manual & Automation)

---

## Module: Searching & Browsing

- Search about product
- View product
- Contact Us - automation not supported

# Searching

---

- Happy Scenario
- Some Negative Scenarios
- Failed test cases

# Browsing

---

- Happy Scenario
- Some Negative Scenarios
- Failed test cases

# Contact US

---

- Static testing

# Automation Showcase

---

- Using TestNG
- Parallel execution

# Automation Exercise Website (API)

---

APIs Assigned to me:

- GET -> Search product
- GET -> List products
- PUT -> Update products

**Open Postman**

# Conclusion

---

## Test Case Metrics:

Total Test Cases: 425

Executed: 406

Passed: 337

Failed: 40

Blocked: 29

Pass Rate: 83%

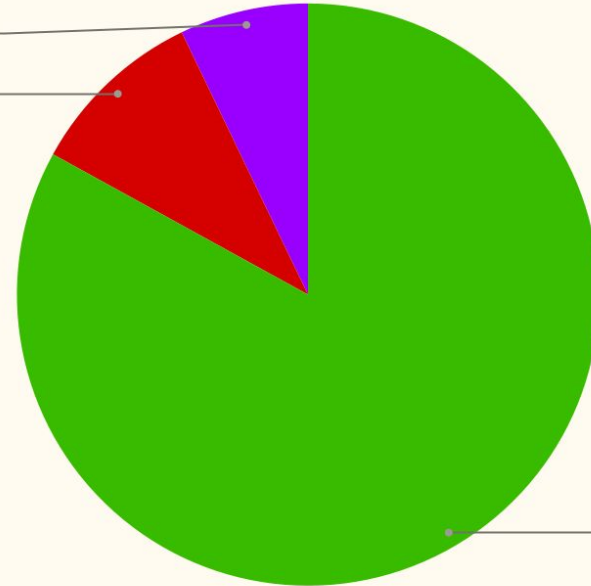
Executed Tests (406)

Blocked

7.1%

Failed

9.9%



Passed

83.0%

	Manual Testing	API Testing	Database Testing:
Total Test Cases	286	116	23
Executed	285	116	5
Passed	241	91	5
Failed	15	25	0
Blocked	29	0	0

## Defects Summary:

Total number of defects = 17

Severity	Count
Critical	5
High	2
Medium	6
Low	4

# Issues Observed Across The Websites

---

- Major Issues in Authentication, Session Handling, and User Account Security (Manual & API).
- Missing or Incorrect Validation Across UI Forms and APIs.
- Incorrect or Incomplete System Responses / Limitations of the Demos (Manual & API).
- Multiple UI/UX Defects on the Website's Core Pages.

# Q&A

---

Feel free to ask