

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](#)

Tricentis

Speed changes everything.

The world's #1 testing and automation platform

Speed | Tricentis

○ ●

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
[Add to cart](#)



Demo Web Shop

Sample Application by Tricentis

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

Search store

[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\(0\)](#)

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

NEWSLETTER

Sign up for our newsletter:

[Subscribe](#)

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.

[Register](#)

Returning Customer

Email:

Password:

Remember me?

[Forgot password?](#)

[Log in](#)

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@test50.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](#)


Tricentis Academy
<https://academy.tricentis.com/>

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 
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Login

- Happy Scenario
- Some Negative Scenarios

Logout

- Happy Scenario
- Some Negative Scenarios
- Failed test cases



Demo Web Shop
Sample Application by Tricentis

mohamed123.aziz@test50.com [Log out](#) Shopping cart(1) Wishlist(0)

Search store

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](#)


Tricentis Academy <https://academy.tricentis.com/>

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 Add to cart
--------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------

Logout

- Happy Scenario
- Some Negative Scenarios
- Failed test cases



Demo Web Shop

Sample Application by Tricentis

Register Log in Shopping cart(1) Wishlist(0)

Search store

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](#)

Tricentis

Speed changes everything.

The world's #1 testing and automation platform

Speed | Tricentis

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

Add to cart

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

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

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?](#)

MANUFACTURERS

- ▶ Tricentis

NEWSLETTER

Sign up for our newsletter:

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

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.

[Register](#)

Returning Customer

Email:

Password:

Remember me?

[Forgot password?](#)

[Log in](#)

MANUFACTURERS

- ▶ Tricentis

NEWSLETTER

Sign up for our newsletter:

[Subscribe](#)

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+](#)



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

CATEGORIES

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

Password recovery

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

Your email address: *

MANUFACTURERS

- Tricentis

NEWSLETTER

Sign up for our newsletter:

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

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.

[Register](#)

Returning Customer

Email:

Password:

Remember me?

[Forgot password?](#)

[Log in](#)

MANUFACTURERS

- ▶ Tricentis

NEWSLETTER

Sign up for our newsletter:

[Subscribe](#)

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 41

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

 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

Copy Search Refresh

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](#) Save Share

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

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 {"responseCode": 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

Cookies

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@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

HTTP Grad Project API Testing / Muhammad Emad / **Update Account** Save Share

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@123423		
<input checked="" type="checkbox"/> title	Mr		
<input type="checkbox"/> status	active		

Body Cookies Headers (18) Test Results ⌚ 200 OK • 845 ms • 841 B • Save Response ...

HTML Preview Visualize ...

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

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@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

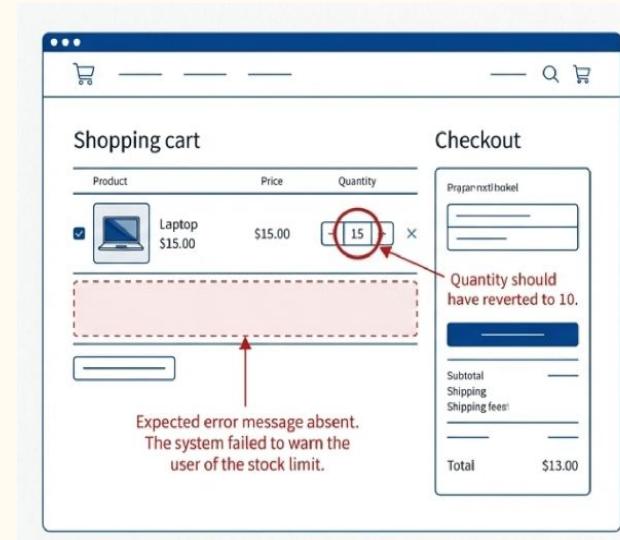
Module: Shopping Cart

- 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
 - GET Verify GET returns all brand nam...**
 - GET Verify API returns error for inval...**
 - GET Verify POST request to brandsLi...**
 - GET POST To All Products List**
 - GET Verify GET to productsList return...**
 - 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...**
 - > Ali Ashour
 - > Ahmed Kamal
- > My Collection

Save Share ⌂

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

POST https://automationexercise.com/api/verifyLogin

Send Cookies

Docs Params Authorization Headers (9) Body Scripts Settings

Body type: form-data

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

Body Cookies Headers (18) Test Results 200 OK 997 ms 857 B ⌂ Save Response ...

HTML Preview Visualize

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

Runner Start Proxy Cookies Vault Trash

Negative scenario (Invalid inputs).

AMIT Team's Workspace New Import

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

GET https://automationexercise.com/api/brandsListXYZ

Save Share Send Cookies

Docs Params Authorization Headers (7) Body Scripts Settings

Query Params

Key	Value	Description	Bulk Edit
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;

```

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 Ayman

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		
BaseUrl	E	https://automationexercis...
LoginRequestEndPoint	E	/api/verifyLogin
CorrectEmail	E	Nxxx@gmail.com
CorrectPassword	E	Nxxx@1234
All variables	(i)	>

Best case scenario (valid inputs).

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

POST {{BaseUrl}} {{LoginRequestEndPoint}}

Save Share

Body (9) Cookies

Docs Params Authorization Headers (9) Body Scripts Settings

None form-data x-www-form-urlencoded raw binary GraphQL

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

Save Share Send

POST {{BaseUrl}} {{LoginRequestEndPoint}}

Docs Params Authorization Headers (9) Body Scripts Settings Cookies

Body (9)

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	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 unauth + New Environment

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

POST {{BaseUrl}} {{LoginRequestEndPoint}}

Docs Params Authorization Headers (9) Body Scripts Settings Cookies

Pre-request Post-response

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

Packages Snippets ↻

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

GET {{BaseUrl}}/{{DetailsREquestEndPoint}}?email={{CorrectEmail}}

Save Share ↻

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

Query Params

Key	Value	Description	Bulk Edit
email	{{CorrectEmail}}		
Key	Value	Description	

Body Cookies Headers (18) Test Results (2/3) ⏱

200 OK • 1.27 s • 1.13 KB • e.g. Save Response ⋮

HTML Preview Visualize ⏷

```
1 {"responseCode": 200, "user": {"id": 1076982, "name": "Nxxx", "email": "Nxxx@gmail.com", "title": "Miss", "birth_day": "14", "birth_month": "9", "birth_year": "2002", "first_name": "Nxxx", "last_name": "Axxxx", "company": "OpenAi", "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

Save | Share | [Link](#)

GET {{BaseUrl}} {{DetailsREquestEndPoint}}

Send

Docs Params Authorization Headers (7) Body Scripts Settings Cookies

Query Params

Key	Value	Description	Bulk Edit
email	{{CorrectEmail}}		
Key	Value	Description	

Body Cookies Headers (18) Test Results (3/3) [Edit](#)

200 OK • 537 ms • 898 B • [Raw](#) Save Response [Copy](#)

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%

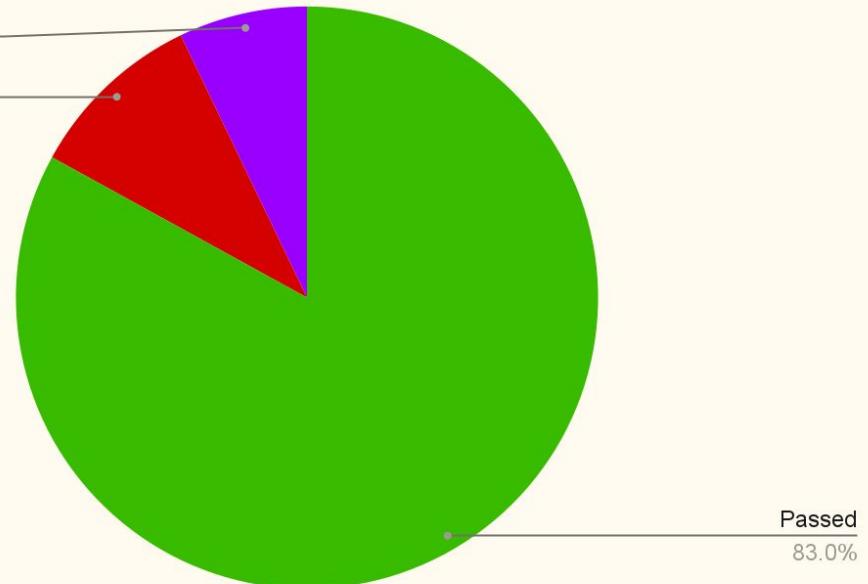
Executed Tests (406)

Blocked

7.1%

Failed

9.9%



	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