# DAY 5 - TESTING, ERROR HANDLING, AND BACKEND **INTEGRATION REFINEMENT** Prepared by: Syed Faisal Mehmood (Roll # 101142)

# **Table of Contents**

S.NO	Steps to Submission of Day-5 Tasks				
1	Functional Testing				
	i. Test Core Features	3-10			
	ii. Testing Tools (API Testing on Thunder Client)	11			
2	Error Handling	12			
3	Mobile Responsiveness Test	13			
4	Performance Optimization				
5	Cross-Browser and Device Testing				
6	Security Testing	20			
7	User Acceptance Testing (UAT)	21			
8	Testing Report (CSV Format)	22			

# **Step # 1: Functional Testing**

# Objective:

We have tested all website functionalities to ensure they work as expected.

# > Test Core Features

# Test Case: TC001

- Task Name: Verify Home Page Functionality
- Feedback & Result: Verified that Home Page functionality is working fine and displayed correctly as expected.
- Status: Passed
- Security: Low
- Remarks: No Issue were found during the test.

# Test Case: TC002

- Task Name: Product Listing Functionality
- Feedback & Result: Verified that Product Listing Functionality is working fine and displayed correctly as expected.
- Status: Passed
- Security: Medium
- Remarks: No Issue were found during the test.

# Test Case: TC003

- Task Name: Filter and Search Functionality
- **Feedback & Result:** Verified that **Filter and Search Functionality** is working fine and displayed correctly as expected.
- Status: Passed
- Security: Low
- Remarks: Work as expected

# Test Case: TC004

- Task Name: Cart Operations Functionality
- Feedback & Result: Verified that Cart Operations 'Add', 'Update' and 'Delete' functionality are working fine.

• Status: Passed

• Security: Low

• Remarks: Work as expected

# Test Case: TC005

- Task Name: Dynamic Routing Functionality
- Feedback & Result: Verified that Dynamic Routing Functionality is working fine.

• Status: Passed

• Security: Low

• Remarks: No Issue were found during the test.

# Test Case: TC006

- Task Name: Comment Section Functionality
- Feedback & Result: Verified that Comment Section Functionality is working fine.

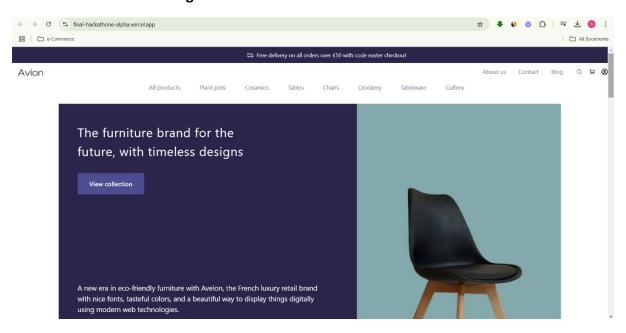
• Status: Passed

• Security: Medium

• Remarks: Successful Test

# Below are the screenshots of all performed tasks.

# a. Main Page:



#### What makes our brand different



Next day as standard

Order before 3pm and get your order the next day as standard

# $\odot$

Made by true artisans

Handmade crafted goods made with real passion and craftsmanship

# =

Unbeatable prices

For our materials and quality you won't find better prices anywhere

# L

Recycled packaging

We use 100% recycled packaging to ensure our footprint is manageable

# **New Ceramics**



The Dandy chair £250



Rustic Vase Set £155



The Silky Vase £125



The Lucy Lamp £399

View collection

# Our popular products



The Poplar suede sofa £980



The Dandy chair £250



The Dandy chair £250

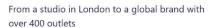
View collection

# Join the club and get the benefits

Sign up for our newsletter and receive exclusive offers on new ranges, sales, pop up stores and more

your@email.com

Sign up



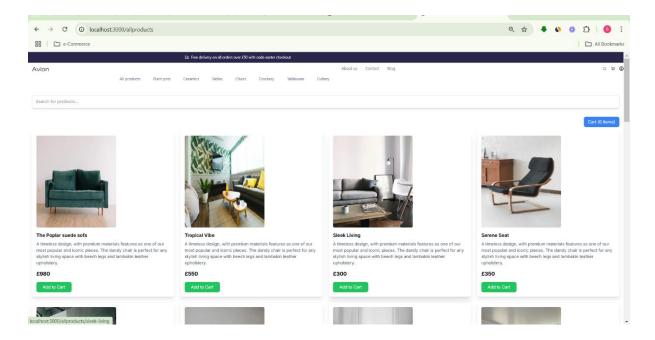
When we started Avion, the idea was simple. Make high quality furniture affordable and available for the mass market.

Handmade, and lovingly crafted furniture and homeware is what we live, breathe and design so our Chelsea boutique become the hotbed for the London interior design community.

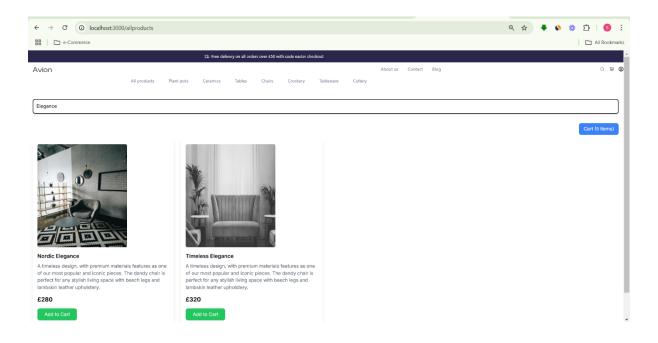
Get in touch



# b. Product Listing:

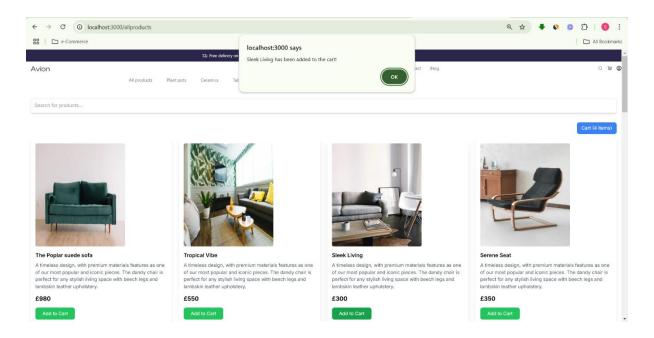


## c. Filters and search:

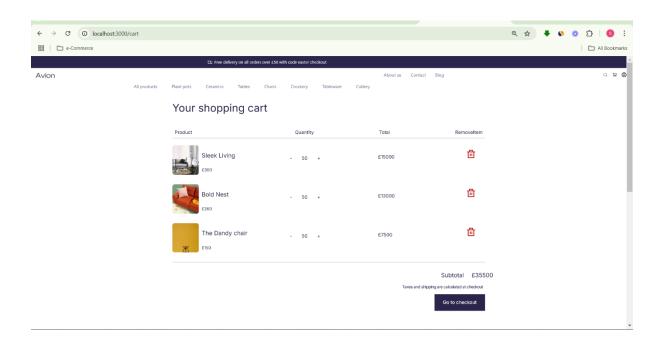


# d. Cart Operations:

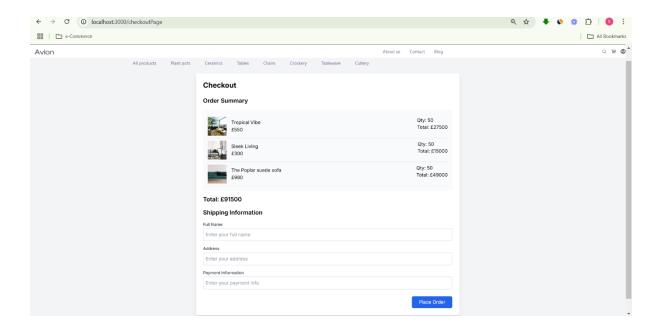
i. Add to Cart Functionality: Below screenshot is showing how to we added products in the Cart.

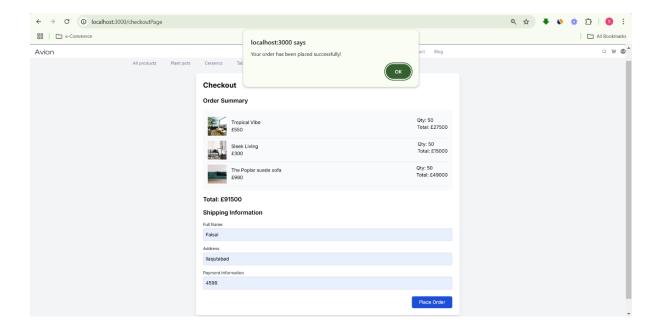


ii. **Shopping Cart:** Below screenshot is showing the added products list in the Cart.

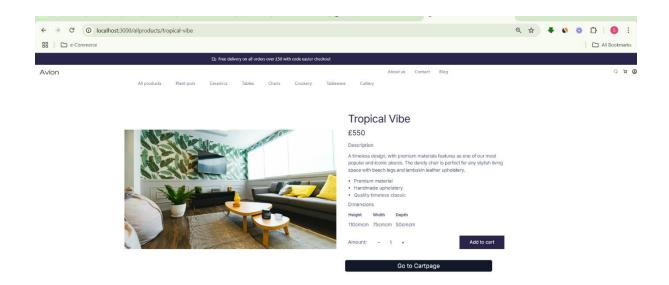


iii. **Checkout Page:** Below screenshot is showing the how to we checkout added items in the cart for confirmation of order execution.



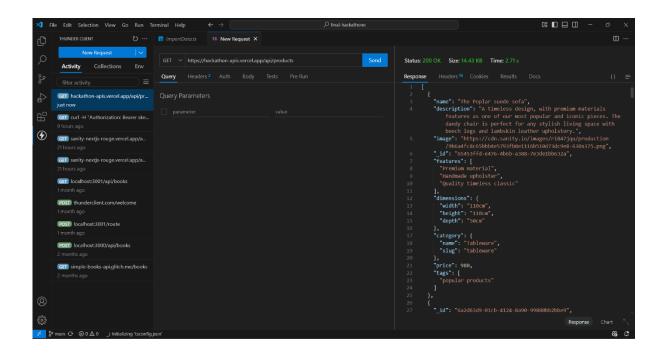


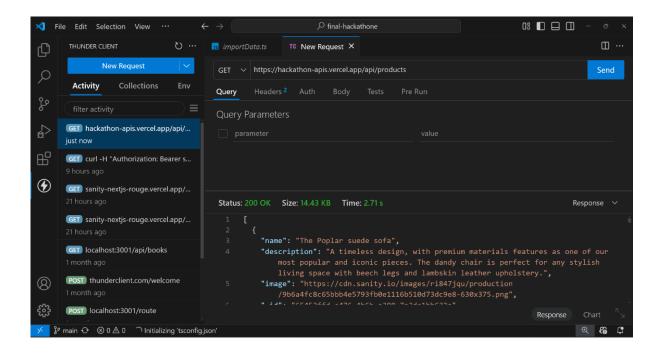
# e. **Dynamic routing:**



# Testing Tools

i. Thunder Client: we have tested API response on Thunder Client and below mentioned screenshots are showing that APIs are working fine.





# Step # 2: Error Handling

Test Case: TC007

Task Name: Test API Error Handling

• Feedback & Result: Verified that API Error Handling Functionality is working fine.

• Status: Passed

• Security: Medium

• Remarks: Handled gracefully

i. Error Handing on Dynamic Routing pages

# **Responsiveness Test**

# Test Case: TC008

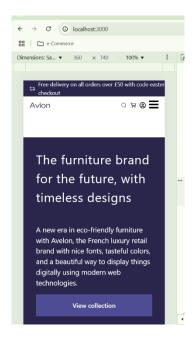
• Task Name: Test Responsiveness on small (Mobile) screen

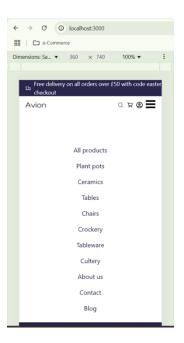
• Feedback & Result: Verified that Responsiveness on Small (Mobile) screen Functionality is working fine.

• Status: Passed

• Security: Medium

Remarks: Successful Test

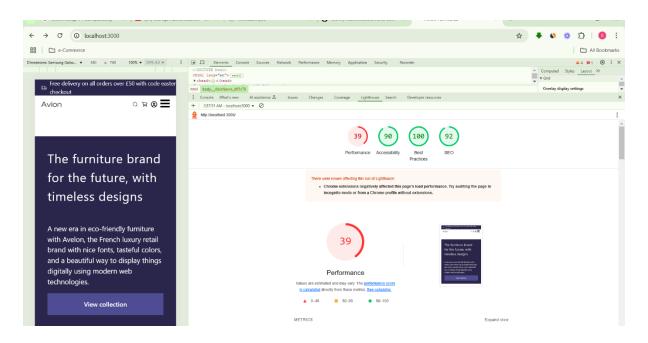




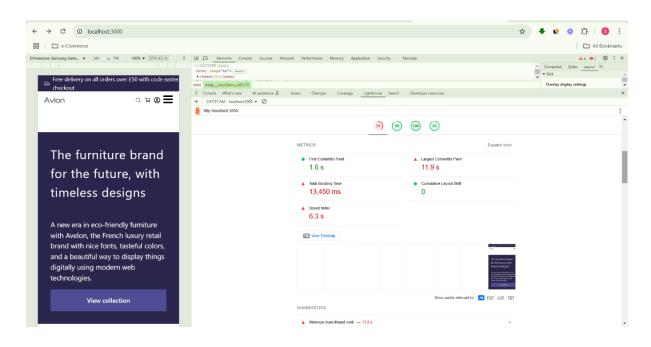
# **Step # 3: Performance Optimization**

i. **Lighthouse:** We have tested and analyzed our website performance optimization in lighthouse to identify the speed and performance issues of our website. Below are the screenshot showing the same.

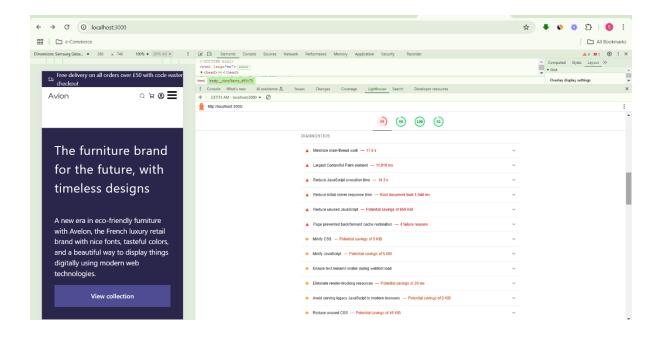
#### Screenshot # 1



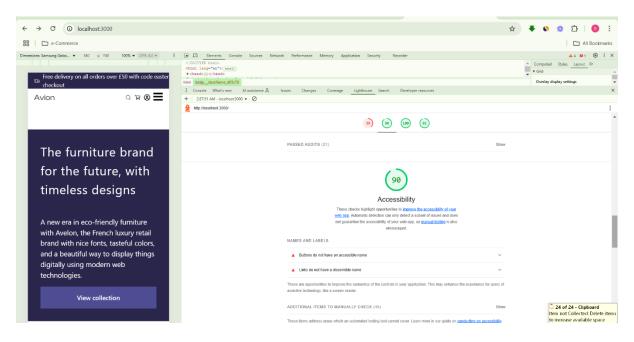
# Screenshot # 2



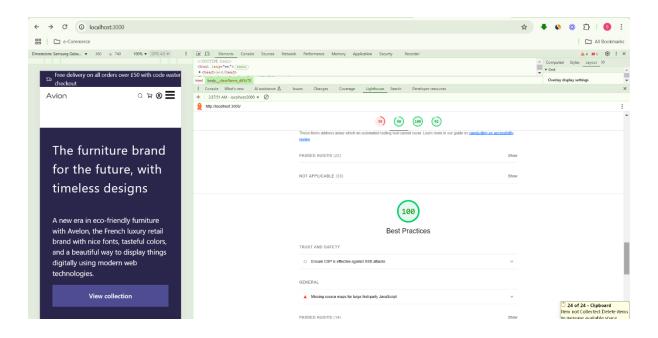
#### Screenshot #3



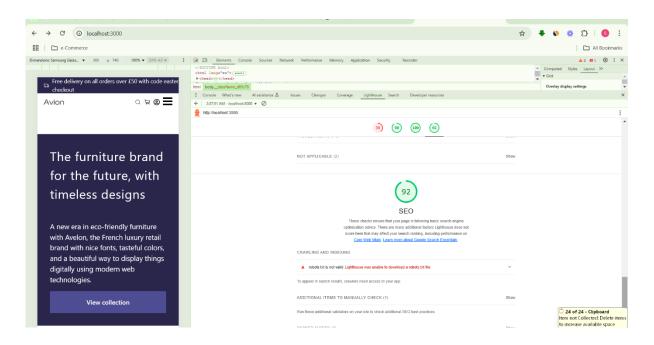
#### Screenshot #4



#### Screenshot # 5

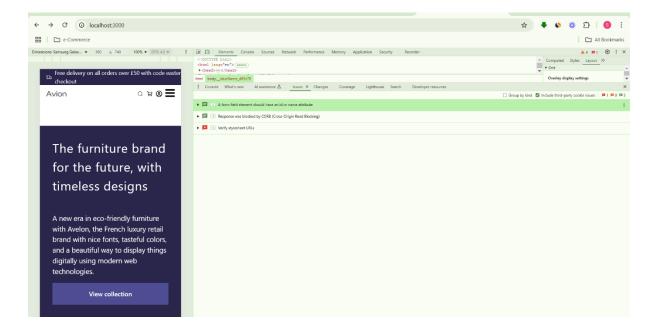


#### Screenshot # 6

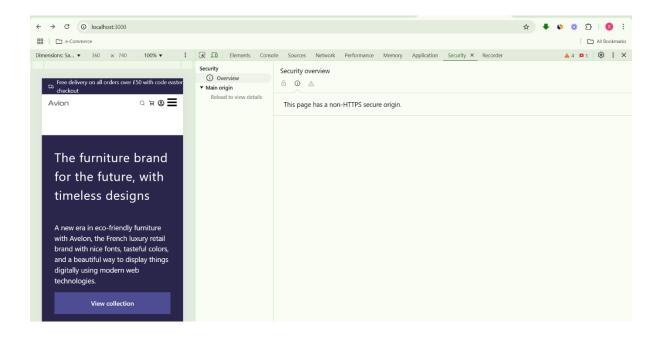


ii. **Testing website performance on other tools:** We have tested and analyzed our website performance optimization on other tools as well. Below are the screenshots showing the same.

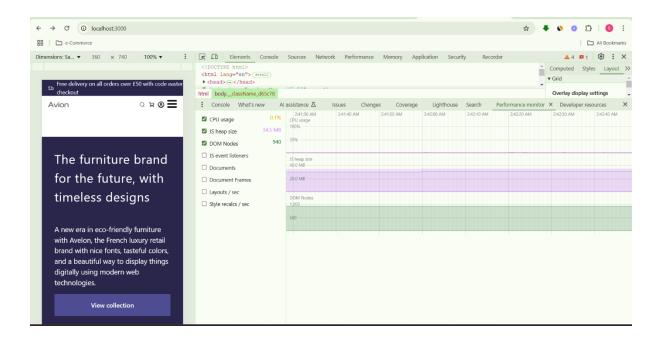
## a. Check the website issue tool



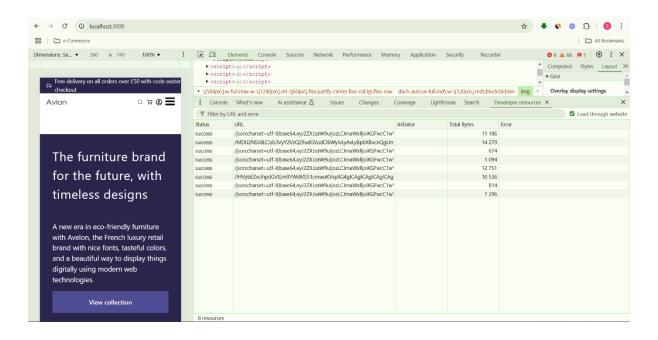
## b. Check the website security



# c. Check the website performance monitor tool



#### d. Check the website developer resources tool



# **Step # 4: Cross-Browser and Device Testing**

# Test Case: TC009

- Task Name: Test Website on Different Browsers (Chrome & Microsoft Edge)
- Feedback & Result: Verified that Website on Different Browsers (Chrome & Microsoft Edge) is working fine.

• Status: Passed

Security: Low

• Remarks: Successful Test

1. Browser Testing:

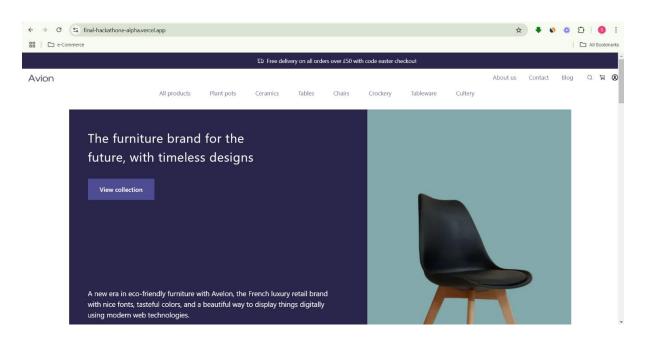
We have tested our website working on two different browsers

i. Chrome

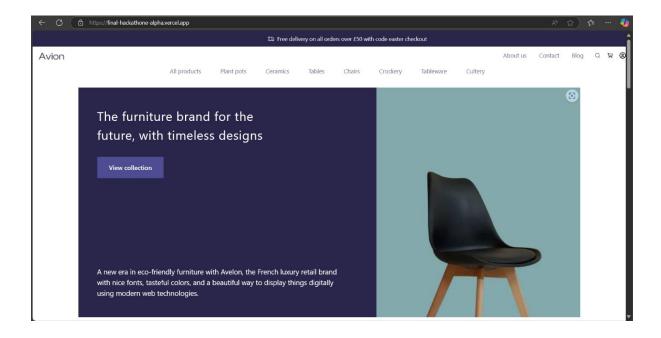
ii. Microsoft Edge

Below are the screenshots of different browsers

#### **Screenshot of Chrome Browser:**



# **Screenshot of Microsoft Edge Browser:**



**Step # 5: Security Testing** 

# **Step # 6: User Acceptance Testing (UAT)**

We have performed all the below listed tasks and observed that the all tasks are working fine without any issues.

- i. Browsing Main Page
- ii. Browsing products Listing Page
- iii. Filter & Search Products
- iv. Browsing Dynamic Routing Pages
- v. Check Out Operations
  - a. Add items to cart
  - b. Update items to cart
  - c. Delete items from cart
- vi. Checkout data calling to sanity
- vii. Mobile Responsiveness Testing
- viii. APIs Testing through Thunder Client
- ix. Website Browsing on Different Browsers

# **Step # 8: Testing Report (CSV Format):**

Test Case ID	Test Case Description	Test Steps	Expected Result	Actual Result	Status	Severity Level	Assigned To	Remarks
TC001	Validate Home Page Login	Open Home Page >	Home Page displayed correctly	Home Page displayed correctly	Passed	Low	-	No issues found
TC002	Validate product listing page	Open product page > Verify products	Products displayed correctly	Products displayed correctly	Passed	Medium	-	No issues found
TC003	Filter & Search page	Open product page > Search and Filter Products	Searched Products displayed correctly	Searched Products displayed correctly	Passed	Low	-	Works as expected
TC004	Check cart functionality	Add product to cart > Verify cart contents	Cart updates with added product	Cart updates as expected	Passed	High	-	Works as expected
TC005	Dynamic Routing page	Open product page > Verify products	Products displayed correctly	Products displayed correctly	Passed	Low	-	No issues found
TC006	Comment Section	Comment Section	The Comment Section is working fine.	The Comment Section is working fine.	Passed	Medium	-	Successful Test
TC007	Test API error handling	Disconnect API > Refresh page	Show fallback UI with error message	Error message shown	Passed	Medium	-	Handled gracefully
TC008	Ensure responsiveness on mobile	Resize browser window > Check layout	Layout adjusts properly to screen size	Responsive layout working as intended	Passed	Medium	-	Successful Test
TC009	Test website on Different browsers	Test Website > Chrome & Microsoft Edge	Web Pages displayed Successfully	Web Pages displayed Successfully	Passed	Low	-	Successful Test

# THE END