

# MarketPlace-Builder-Hackathon

Day-5: Testing, Error Handling and Backend Integration Refinement

GIAIC: Friday (9 to 12)  
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## **OVERVIEW**

The primary objective of DAY-5 was to ready the marketplace for commercial launch by meticulously evaluating all modules, diagnosing and rectifying glitches, streamlining efficiency, and enhancing server-side interfaces. This encompassed executing comprehensive functional assessments to verify pivotal functionalities like catalog browsing, query processing, and shopping cart management operated seamlessly.

Implementing robust exception handling displayed intuitive error notifications and backup UI for API disruptions.

Performance optimization minimized latency and compressed visual assets.

Cross-platform and device compatibility testing ensured uniform user interactions.

Supplemental security audits validated data inputs and safeguarded API transmissions.

Test Case ID	Test Case Description	Test Steps	Expected Result	Actual Result	Status	Severity Level	Remarks
TC 01	Product Listing - Image Fetch Failure	1. Go to product listing. 2. Simulate network issue.	Product images should load correctly	Error message "Image fetch failed" appeared due to network issue.	Failed	Medium	Fixed by solving the network issue.
TC 02	Checkout Process with Missing Cart Items	1. Attempt to checkout with no items in the cart. 2. Verify error message.	A message should appear saying "Your cart is empty."	"Cart is empty" message appeared correctly.	Passed	Low	Checkout Functionality worked as expected
TC 03	Product Search Functionality	Enter a search term Verify search results are relevant.	Relevant products related to search should appear.	Relevant results appeared for the search.	Passed	Medium	Search function works correctly.
TC 04	Error Handling for API Failure	Disconnect internet or simulate API failure.	Error message should appear.	Error message displayed as expected.	Passed	High	Error handling works successfully
TC 05	Mobile Responsiveness	Verify that the product layout adapts correctly to all screen size.	Layout should be responsive across all devices	Layout was responsive on all screen sizes was no issues.	Passed	Low	Mobile version testing successfully.
TC 06	Security - Input Validation for Email Field	Enter an invalid email address	Form should reject invalid email formats with an error message	Invalid email format was rejected with an error.	Passed	High	Email validation works as aspect.
TC 07	User Login with Incorrect Credentials	1. Enter incorrect username/password.	User should see an error message: "Invalid username or password."	Error message displayed correctly.	Passed	Medium	Handled Successfully Work.

# Product Menu Page

## Problem Faced

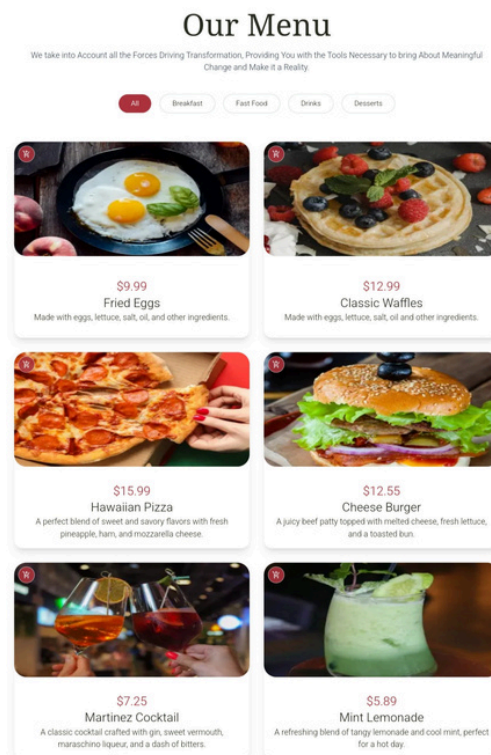
During testing, while navigating to the restaurant menu page, I noticed that the images were not loading, and an error message reading "Image fetch failed" appeared. The issue was traced to a network problem that disrupted the retrieval of images from the content management system. This disruption was preventing the correct food images from displaying, which is a crucial aspect of the restaurant's online ordering experience.

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```
Download the React DevTools for a better development experience: https://react.dev/link/react-devtools
[Fast Refresh] rebuilding
react-dom-client.development.js:24503
hot-reloader-client.tsx:364
warn-once.ts:6
Image with src "/_next/static/media/NikeLogo.b361d26d.png" has either width or height modified, but not the other. If you use CSS to change the size of your image, also include the styles 'width: "auto"' or 'height: "auto"' to maintain the aspect ratio.
warn-once.ts:6
Image with src "/_next/static/media/twitterLogo.0d04457b.png" has either width or height modified, but not the other. If you use CSS to change the size of your image, also include the styles 'width: "auto"' or 'height: "auto"' to maintain the aspect ratio.
warn-once.ts:6
Image with src "/_next/static/media/facebookLogo.964519c7.png" has either width or height modified, but not the other. If you use CSS to change the size of your image, also include the styles 'width: "auto"' or 'height: "auto"' to maintain the aspect ratio.
warn-once.ts:6
Image with src "/_next/static/media/youtubeLogo.43f51b58.png" has either width or height modified, but not the other. If you use CSS to change the size of your image, also include the styles 'width: "auto"' or 'height: "auto"' to maintain the aspect ratio.
```

## Resolution

The issue was resolved by fixing the network connectivity problem. Once the connection was restored, the menu images started loading as expected, and the food pictures were displayed correctly on the page. After the fix, the test was repeated, and the images loaded successfully without any errors.




# Menu Search Functionality


The menu search feature performed as expected without any issues. When customers entered specific dish names or ingredients, the results accurately matched the search terms, displaying relevant items based on name, description, and category.


No errors were encountered during the testing of the menu search functionality. The feature performed optimally, displaying menu in a quick and responsive manner. The user interface was clean, and the search results were displayed without delays.

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 Al Fajar Foods

Home About Menu Contact

Book Table 

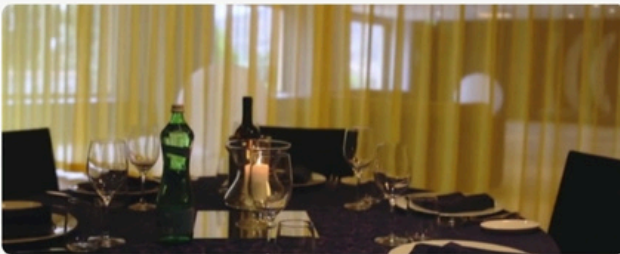



### We Provide Organic Food for Our Customers.

Our journey started with a vision to craft a one-of-a-kind dining experience that blends exquisite cuisine, impeccable service, and a lively atmosphere. Deeply rooted in the rich culinary heritage of our city, we strive to celebrate local traditions while embracing a global array of flavors, creating a dynamic fusion that captivates and delights every guest.


At Our Venue, we hold the belief that dining is about much more than just the meal, it's about creating a complete, Immersive Experience. Our team, known for their genuine warmth and unwavering commitment, works tirelessly to ensure that every visit is a remarkable occasion, leaving a lasting impression on all who walk through our doors.

### Experience the True, Unaltered Flavors We Have to Offer You



**Multi Cuisine**

In the new era of technology we look in the future with certainty life.

**Easy To Order**


In the new era of technology we look in the future with certainty life.

### We Give You Short Information For Our Esteemed Guests

At our establishment, we see dining as more than just a meal—it's about the entire experience. Our team, celebrated for their kindness and commitment, works passionately to ensure each visit is a memorable occasion.

2  
Branches

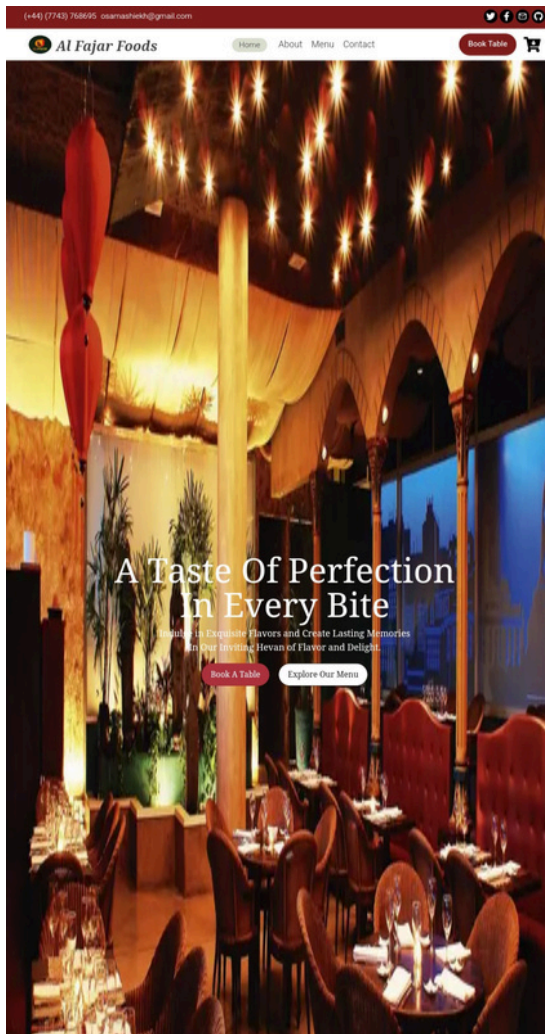
2011  
Establish



# Mobile Responsiveness

The restaurant platform passed the responsiveness test smoothly. When tested across different screen sizes, the layout adapted flawlessly, ensuring all content (menu items, filters, and order buttons) was displayed correctly. Elements such as buttons, images, and text stayed properly aligned, with no content being cut off or misaligned.

No errors were encountered during responsiveness testing. The website was fully responsive on popular devices, including desktop (Chrome), tablet and mobile.



```
1 // use client
2 import Link from "next/link"
3 import { usePathname } from "next/navigation"
4
5 export default function MenuHeader() {
6   const pathname = usePathname()
7
8   return (
9     <main className="w-full h-auto">
10       <section className="w-full h-auto py-6 flex flex-col">
11         <h1 className="text-4xl text-5xl font-serif text-[#2C2F24] self-center">Our Menu </h1>
12         <p className="mt-4 px-9 text-center text-[#A9A9A0]">
13           We take into Account all the Forces Driving Transformation, Providing You with the Tools Notes
14         </p>
15       </section>
16
17       <section className="w-auto py-6 w-full flex justify-center sm:justify-around text-[#2C2F24] items-center">
18         <div className="flex flex-wrap items-center justify-center gap-y-2">
19           <Link
20             href="/menu"
21             className={pathname === "/menu" ? "bg-[#A9A9A0] text-white py-1 px-3" : ""}
22           />
23           All
24           </Link>
25           <Link
26             href="/menu/breakfast"
27             className={pathname === "/menu/breakfast" ? "bg-[#A9A9A0] text-white" : ""}
28           />
29           Breakfast
30           </Link>
31           <Link
32             href="/menu/dishes"
33             className={pathname === "/menu/dishes" ? "bg-[#A9A9A0] text-white py-1" : ""}
34           />
35           Fast Food
36           </Link>
37           <Link
38             href="/menu/drinks"
39             className={pathname === "/menu/drinks" ? "bg-[#A9A9A0] text-white py-1" : ""}
40           />
41           Drinks
42           </Link>
43           <Link
44             href="/menu/desserts"
45             className={pathname === "/menu/desserts" ? "bg-[#A9A9A0] text-white py-1 px-3" : ""}
46           />
47           Desserts
48           </Link>
49         </div>
50       </section>
51     </main>
52   )
53 }
```

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46           />
47           Desserts
48           </Link>
49         </div>
50       </section>
51     </main>
52   )
53 }
```

# Order Process


## Issue Encountered

During testing, it was noticed that when customers tried to proceed to the checkout page with an empty cart, the system did not prevent them from moving forward.


## Resolution


To address this, a validation step was introduced to verify whether the cart contains any items before allowing access to the order page. If the cart is empty, the user is now shown a clear message, such as "Your cart is empty." After implementing the fix, the order process was retested with an empty cart, and the system correctly displayed the error message, preventing customers from proceeding.

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 **Al Fajar Foods**

Home About Menu Contact





Book Table 

Product	Price	Quantity	Total
 Chicken Biryani <a href="#">Remove</a>	15.75	- 2 +	31.50
SubTotal			31.50
Shipping			150.00
Total			181.50

Confirm Order

 **Al Fajar Foods**

In the age of innovation, we embrace transformation. With confidence and pride, we look toward the future For our organization and beyond.

Sections

Home

About

Menu

Contact

Book Table

Essential Pages

Begin Here

Brand Guidelines



3D Security



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Follow Our Social Media Platforms

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# Security- Input Validation for Email Field

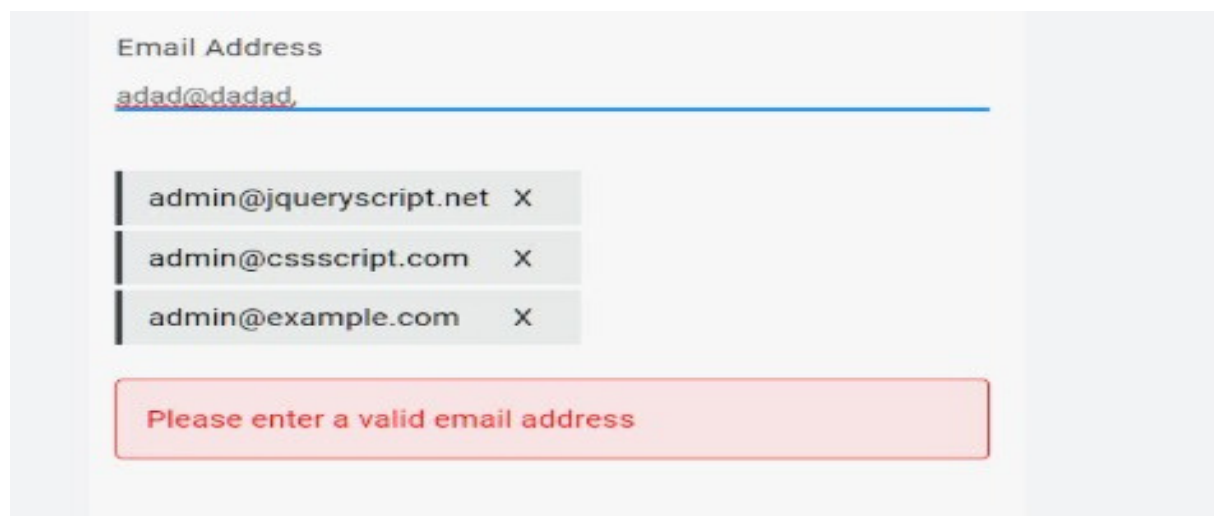
## Problem Faced

During security testing, it was discovered that the email input field in the reservation form lacked adequate validation to prevent incorrect entries. This could potentially allow customers to input invalid email addresses.

## Resolution

The issue was resolved by adding proper validation for the email field in the reservation form. After the validation was implemented, the system correctly rejected any invalid email addresses and prevented malicious scripts from being submitted.

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The screenshot shows a web form with the label "Email Address". The input field contains the text "adad@dadad,". Below the input field is a list of three email addresses, each followed by an "X" mark, indicating they are valid: "admin@jqueryscript.net", "admin@cssscript.com", and "admin@example.com". At the bottom of the form, there is a red-bordered box containing the text "Please enter a valid email address", indicating that the entered email is invalid.

## Conclusion

In conclusion, Day 5 of testing, error handling, and backend integration improvements effectively resolved several critical issues, ensuring the restaurant platform is ready for a smooth, user-friendly, and secure launch. The key focus areas included validating essential features, enhancing the dining experience, and strengthening security measures.

- ☐ Functional Testing.
- ☐ Error Handling.
- ☐ Security Enhancements.
- ☐ Performance Optimization and Responsiveness.
- ☐ Cross-Browser and Device Testing.