

Day 5 - Testing and Backend Refinement - MORENT

1. Testing Report

Test Case ID: TC001

Test Case Description: Validate search bar functionality

Test Steps: Go to homepage > Enter keyword in search bar > Press Enter

Expected Result: Search suggestions, the product on click

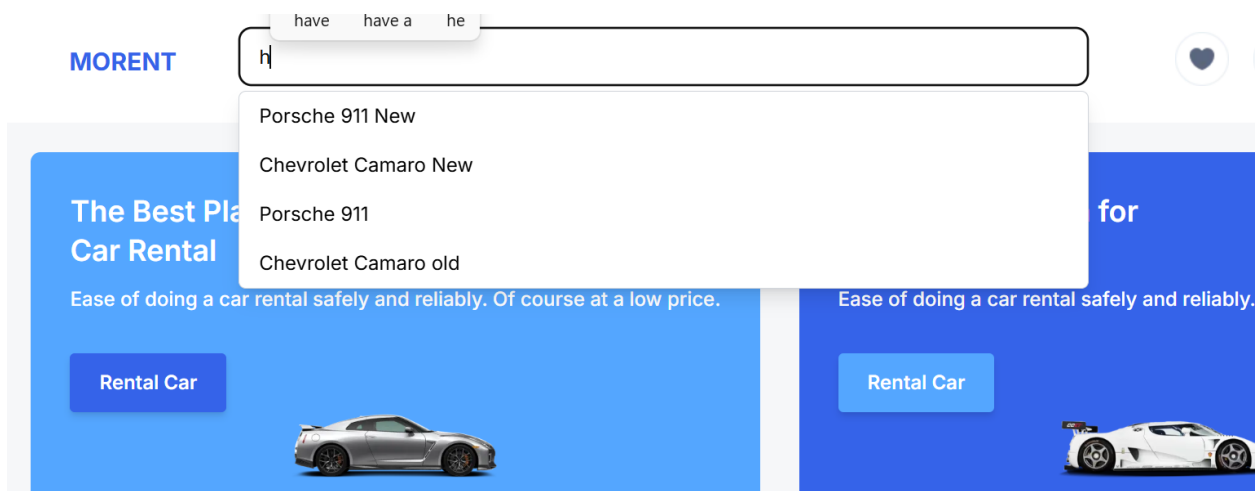
Actual Result: Got suggestions, and the required product

Status: Passed

Severity Level: High

Assigned To: -

Remarks: Fine



Test Case ID: TC002

Test Case Description: Validate product listing on the homepage

Test Steps: Navigate to homepage > Check if product listings are displayed

Expected Result: All products are listed with relevant details

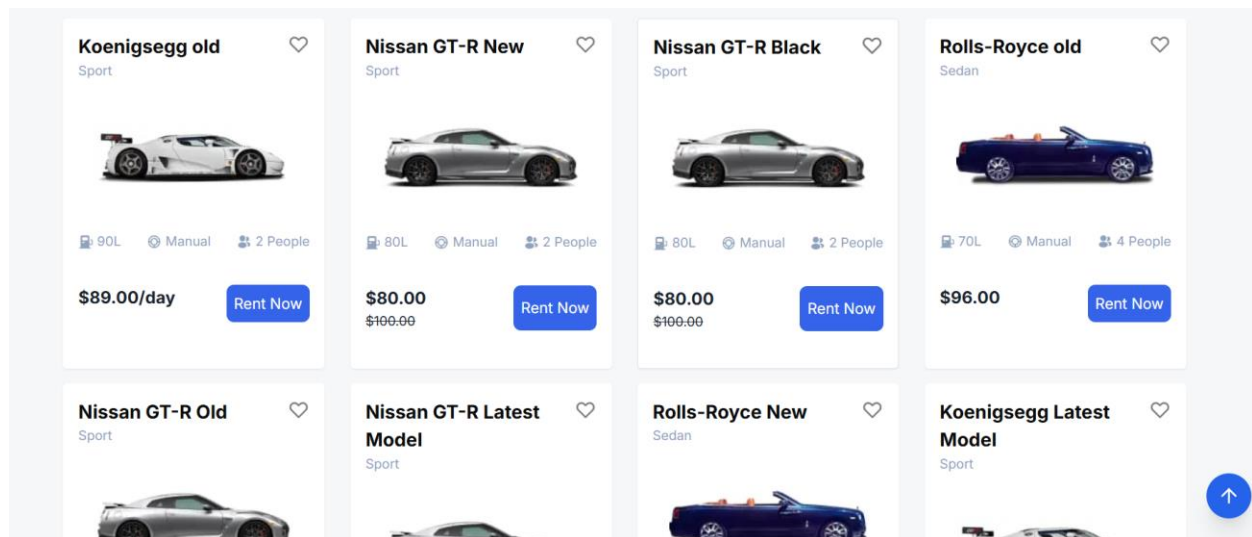
Actual Result: Products listed as desired

Status: Passed

Severity Level: Low

Assigned To: -

Remarks: Successful



Test Case ID: TC003

Test Case Description: Check dynamic product details page rendering

Test Steps: Select a product from the listing > Verify the product details page

Expected Result: Correct product details (name, price, description) are shown

Actual Result: Product details shown

Status: Passed





Severity Level: Low

Assigned To: -

Remarks: Successful

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Steering Manual	Gasoline 90L

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[Rent Now](#)

Test Case ID: TC004

Test Case Description: Verify cross-browser compatibility

Test Steps: Open the website in different browsers > Check for layout consistency

Expected Result: Website renders correctly in all major browsers

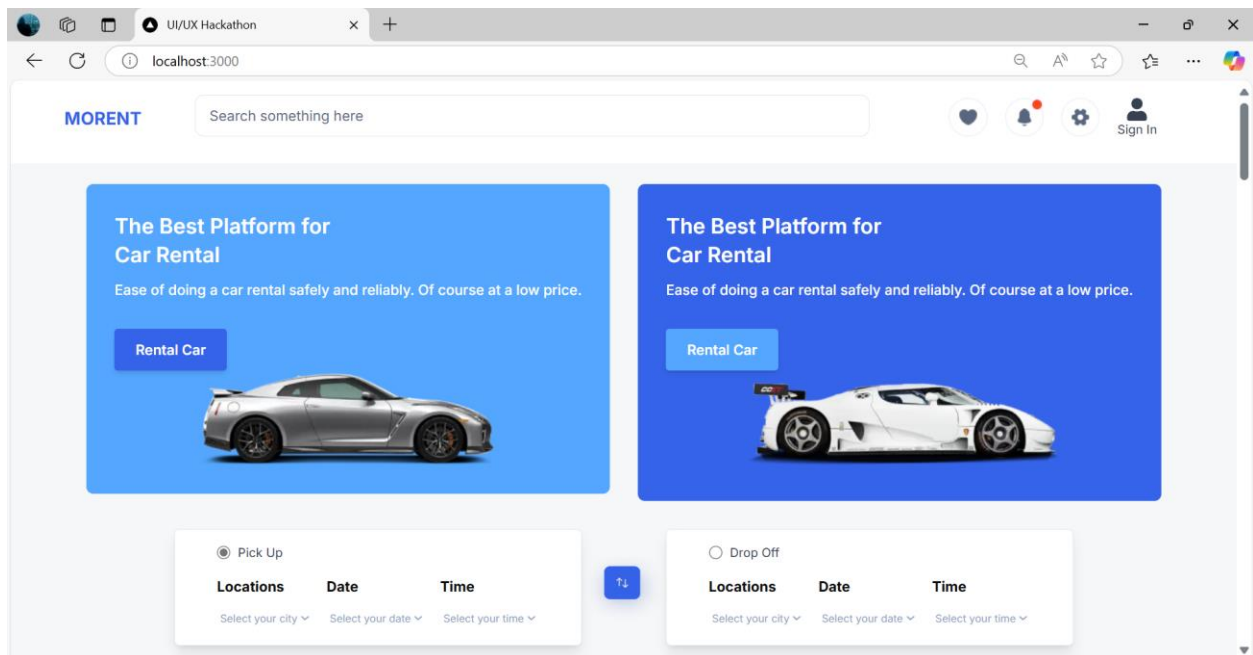
Actual Result: Layout was presentable

Status: Passed

Severity Level: Medium

Assigned To: -

Remarks: Fine



Test Case ID: TC005

Test Case Description: Check responsiveness on different screen sizes

Test Steps: Open website on mobile, tablet, and desktop views > Verify layout and element resizing

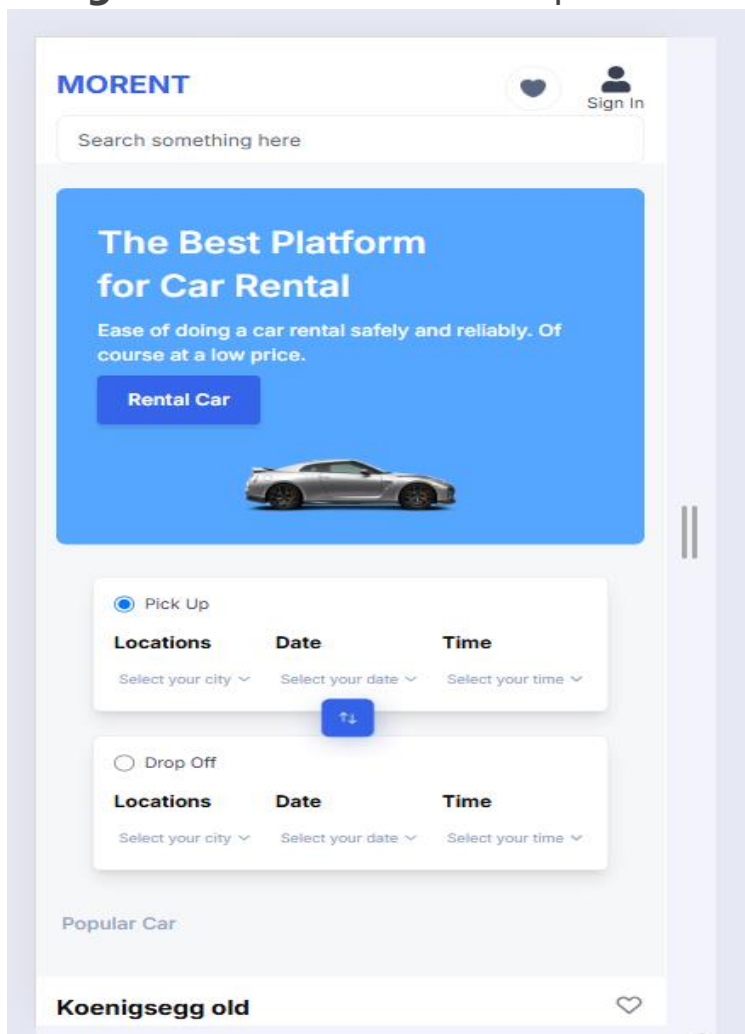
Expected Result: Website is fully responsive across all screen sizes

Actual Result: Website was Responsive

Status: Passed

Severity Level: Low

Assigned To: -Remarks: Responsive



Test Case ID: TC007

Test Case Description: Verify checkout process flow

Test Steps: Rent Now > Proceed to checkout > Complete payment steps

Expected Result: Checkout completes successfully with a confirmation message

Actual Result: Checkout UX is smooth

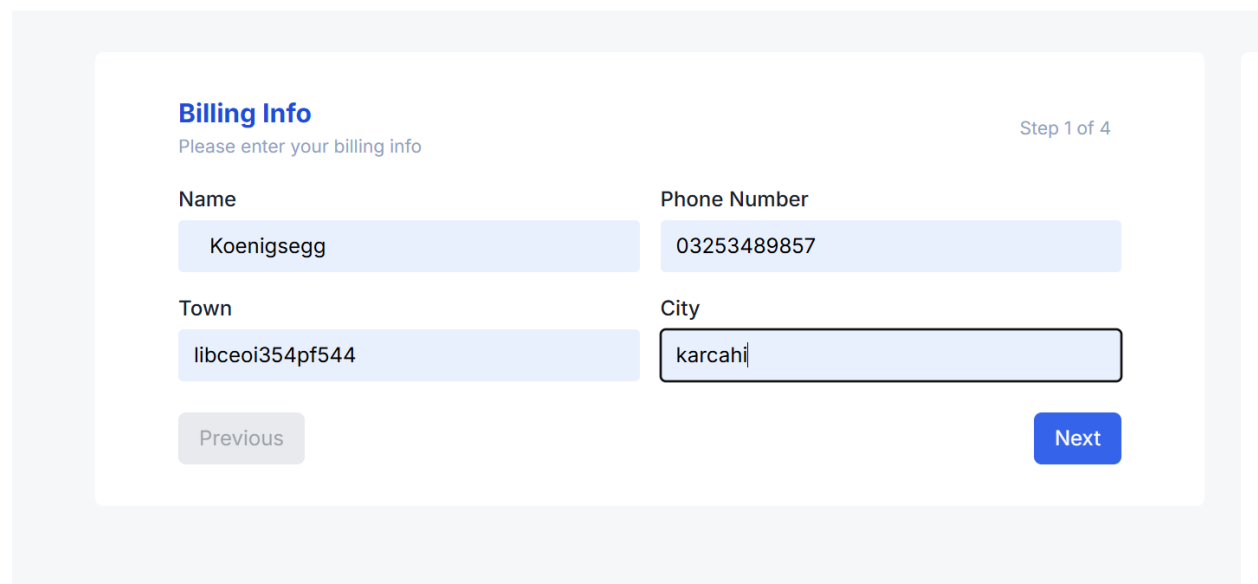
Status: Passed

Severity Level: Low

Assigned To: -

Remarks: Smooth

1.



The screenshot shows a 'Billing Info' form, which is the first step of a four-step checkout process. The form is titled 'Billing Info' in blue, with a subtitle 'Please enter your billing info' in grey. It contains four input fields: 'Name' (filled with 'Koenigsegg'), 'Phone Number' (filled with '03253489857'), 'Town' (filled with 'libceoi354pf544'), and 'City' (filled with 'karcah'). At the bottom left is a grey 'Previous' button, and at the bottom right is a blue 'Next' button.

Billing Info		Step 1 of 4
Please enter your billing info		
Name	Phone Number	
Koenigsegg	03253489857	
Town	City	
libceoi354pf544	karcah	
Previous	Next	

2.

Rental Info

Please select your rental date

Step 2 of 4

☒ Pick - Up

Location

karachui

Date

01/17/2025



Time

01:20 AM



☐ Drop - Off

Location

|||||||

Date

02/17/2025



Time

01:23 AM



Previous


Next

3.

Payment Method

Please enter your Payment Method

Step 3 of 4


☒ **Credit Card** 


Card Name

Card Holder

Expiration Date

CVC

☐ **PayPal** 

☐ **Bitcoin** 

4.

Confirmation

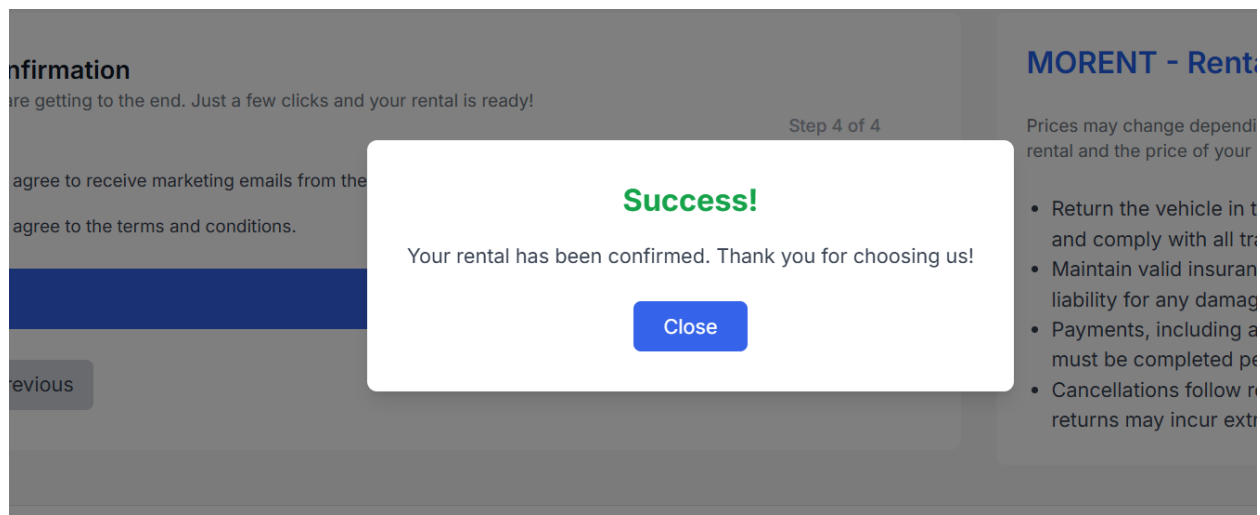
We are getting to the end. Just a few clicks and your rental is ready!

Step 4 of 4

☐ I agree to receive marketing emails from the brand.

☐ I agree to the terms and conditions.

5.



EXCELSHEET: (attached in the repo)

Local and field metrics

Largest Contentful Paint (LCP) ?

0.57 s

Local

—

Field 75th percentile

Your local LCP value of 0.57 s is good.

LCP element `p.font-PlusJakartaSans.text-left...`

Cumulative Layout Shift (CLS)

0.01

Local

—

Field 75th percentile

Your local CLS value of 0.01 is good.

Worst cluster [1 shift](#)

Interaction to Next Paint (INP)

0 ms

Local

—

Field 75th percentile

Your local INP value of 0 ms is good.

2. Performance Optimization Steps Taken

To ensure optimal performance, the following steps were taken:

1. **Code Minification:** JavaScript, CSS, and HTML files were minified to reduce file sizes and improve load times.
2. **Image Optimization:** Images were compressed and converted to modern formats (e.g., WebP) to reduce load times without compromising quality.
3. **Lazy Loading:** Implemented lazy loading for images and non-critical resources to improve initial page load performance.
4. **Caching:** Enabled browser caching and server-side caching to reduce server load and improve response times.

3. Security Measures Implemented

The following security measures were implemented to protect the application:

1. **Input Validation:** Implemented server-side and client-side input validation
2. **Authentication and Authorization:** Used secure authentication mechanisms
3. **Regular Security Audits:** Conducted regular security audits and vulnerability assessments to identify and address potential risks.

4. Challenges Faced and Resolutions Applied

Challenge 1: Cross-Browser Compatibility Issues

Description: The website layout was inconsistent across different browsers (e.g., Chrome, Firefox, Safari).

Resolution: Used CSS prefixes and to ensure consistent rendering across browsers. Conducted extensive testing on multiple browsers and devices.

Challenge 2: Slow Page Load Times

Description: Initial page load times were high, especially on mobile devices.

Resolution: Implemented lazy loading, optimized images, and enabled caching.

Conclusion

The test execution and optimization process was successful, with all test cases passing and significant improvements in performance and security. The challenges faced were addressed effectively, ensuring a robust and user-friendly application.