

Day 4: Dynamic Billing Page for a Marketplace

Introduction :

Project Overview: The objective of this project was to design and implement a dynamic billing page for a marketplace application. This page integrates key features such as billing information, rental details, and a real-time rental summary. The focus is to provide users with a seamless and responsive experience while ensuring functionality and modern design principles.

By using modular components and dynamic data handling, this project achieves an efficient and scalable solution.

Features Implemented:

1. Billing Information Section:

- => Input fields for collecting user details
- => Name, phone number, address, and city.
- => Responsive design with proper alignment and spacing for accessibility.

2. Rental Information SectionDetails include:

- Pick-Up and Drop-Off locations, date, and time.
- User-friendly layout with labeled input fields to ensure clarity.

3. Rental Summary SectionDisplays essential car details:

- Car Name, Rating, and Reviewer Count.
- Summary of Charges:
- Subtotal, tax, and promotional code application.
- Final price is dynamically calculated and prominently displayed.

4. Confirmation SectionCheckbox options for:

- Marketing consent.
- Agreement to terms and conditions.
- "Rent Now" Button:
- Submits the form with a clean design.
- Accompanied by a data security assurance message and an icon.

5. Additional ComponentsSearch Bar:

- Allows users to search for cars by name or tags.
- Category Filters:
- Segment cars dynamically by type (e.g., SUV, Sedan).
- Pagination:

Handles large datasets with a user-friendly design.

Design Highlights:

Responsive Layout:

Ensures a consistent experience across all devices.

Dynamic Image Handling:

Car images are centered within a rounded background for visual appeal.

Modern UI:

Utilized minimalistic design principles, soft colors, and rounded corners for a clean aesthetic.

Technologies Used:

Frontend Framework: Next.js for server-side rendering and modern web development.

Styling Framework: Tailwind CSS for rapid and efficient styling.

Image Handling: Next.js Image component for optimized rendering and lazy loading.

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Billing Info
Step 1 of 4

Please enter your billing info

Name

Phone Number

Address

Town/City

Rental Info
Step 2 of 4

Please select your rental date

• Pick-Up

Locations

Date

Time

• Drop-Off

Locations

Date

Time

Rental Summary

Prices may change depending on the length of the rental and the price of your rental car.

Nissan GT-R

★★★★☆
440+ Reviewer

Subtotal

\$80.00

Tax

\$0

Total Rental Price

\$80.00

Overall price and includes rental discount

Challenges Faced and Solutions:

1. Aligning the Rental Summary SectionIssue:

Initially, the summary section appeared below the billing information.

Solution:

Used CSS Grid to position the summary section to the right of the billing section, ensuring a balanced layout.

2. Centering Images in BackgroundsIssue:

Car images were not properly centered within the background.

Solution: Applied Flexbox for vertical and horizontal alignment, ensuring the images were visually centered.

3. Implementing a Loading StateIssue:

A static "Loading..." message was not visually appealing.

Solution: Replaced it with an animated loader for better user experience during data fetches.

Conclusion:

The dynamic billing page fulfills all project requirements by integrating essential marketplace components, ensuring responsiveness, and delivering an engaging user experience. The modular design allows for scalability and easy future updates. Future improvements could include multi-language support and advanced filtering options for enhanced usability.