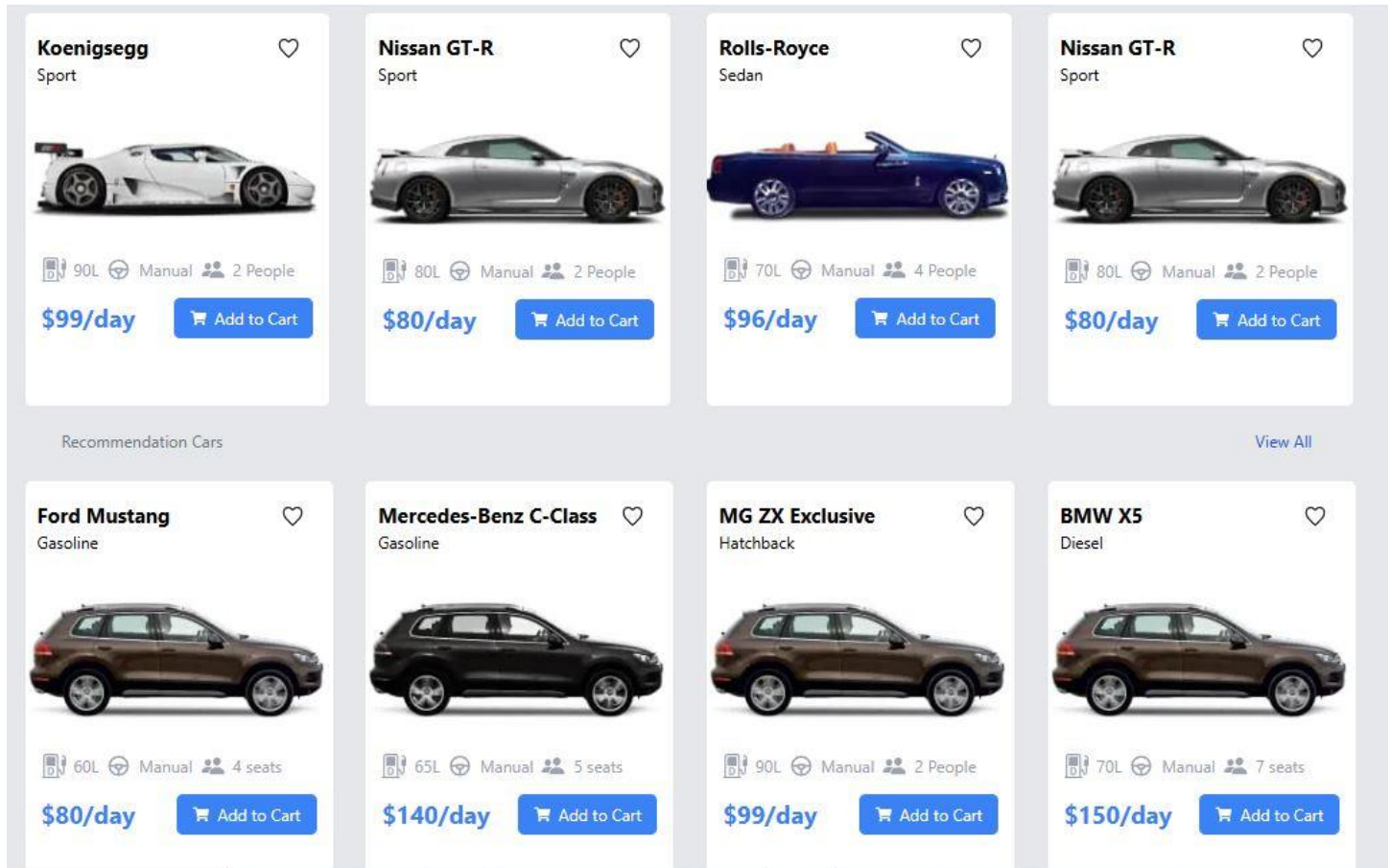


Day 4: BUILDING DYNAMIC FRONT-END COMPONENTS

1. PRODUCT LISTING

The picture provided below shows products that are coming from the Back end (Sanity CMS) to Front end (Next Js)



2. GROQ QUERY

Below picture shows GROQ query, which shows how the products were fetched

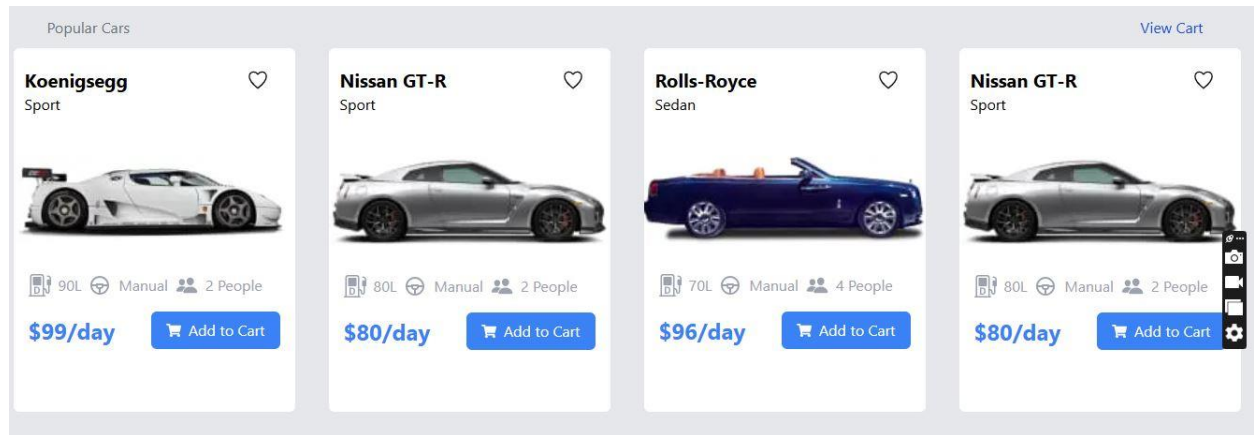
```
const fetchCars = async () => {
  try {
    const query = `*[_type == "car"][0...15]{
      name,
      pricePerDay,
      type,
      fuelCapacity,
      transmission,
      seatingCapacity,
      "id": _id,
      "imageUrl": image.asset->url,
    }`;
  }
}
```

Below picture showing the choices for items to display on front end

```
const data = await sanity.fetch(query);

const specificIndices = [4, 5, 10, 9];
const filteredProducts = specificIndices
  .map((index) => data[index])
  .filter(Boolean);
```

Result



Below Picture is showing the conversion of type string to number due to having price in string type I was unable to get the total amount in my cart so I used this to get the conversion in numbers to insure smooth calculations.


```
const processedData = filteredProducts.map((item: any) => ({
  ...item,
  pricePerDay:
    typeof item.pricePerDay === "string"
      ? parseFloat(item.pricePerDay.replace(/^[^d.]/g, ""))
      : item.pricePerDay,
})));
```




3. PRODUCT DETAILS COMPONENTS

The picture displaying below showing the product details page which is working dynamically for every product.

Koenigsegg car with the best design and acceleration

Safety and comfort while driving a futuristic and elegant sports car





Koenigsegg

★★★★☆ 440+ Reviewer

Koenigsegg has become the embodiment of Sport outstanding performance, inspired by the most unforgiving proving ground, the race track.

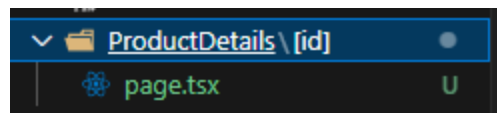
Type Car	Sport	Capacity	2 People
Steering	Manual	Gasoline	90L

\$99.00/day

Rent Now

It also change the description and specifications accordingly.

Source File



4. REVIEWS COMPONENT

On the Product details page, I also added a review section in which users can give reviews about the product not only that but he/she can also rate the product by giving star ratings and it will adjust its height itself as the reviews get increased.

Note: I Have Made a Review component separately and rendered it in the product details page

Reviews

Write your review here...

★★★★☆

Submit

Anonymous

★★★★☆

Very nice car

5. CART COMPONENT

I have made a cart component to allow the user to add products to the cart so he can see the total amount of products selected by him.

Your Cart

☐ Pick-Up ☒ Drop-Off

Locations: Select your city Date: mm/dd/yyyy Time: --:-- --

Koenigsegg
Price per day: \$99
Quantity: 1
Rental Days: 1
Subtotal: \$99

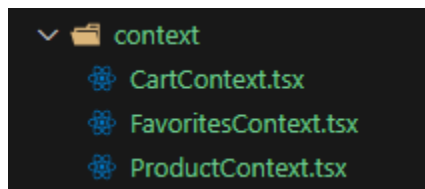
Rolls-Royce
Price per day: \$96
Quantity: 1
Rental Days: 1
Subtotal: \$96

Total: \$195

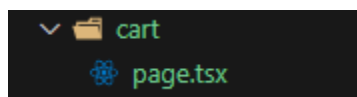
Back to Products Checkout

As you can see, the products have been added to the cart where the user can calculate the prices, and he also has the option to increase or decrease product quantity. To make it work dynamically, I used context and wrapped it into my whole project

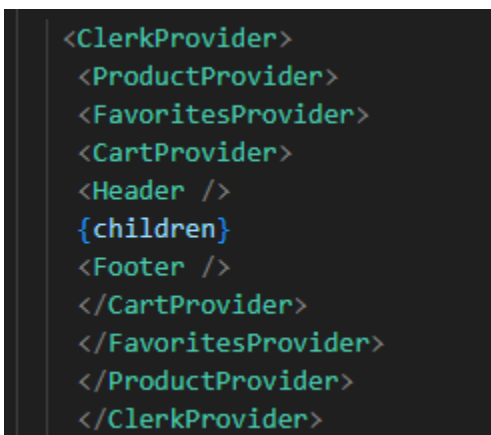
Context



Cart Directory



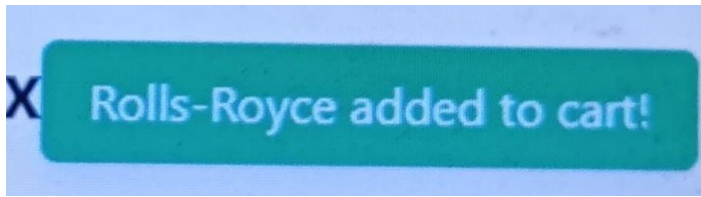
Layout.tsx



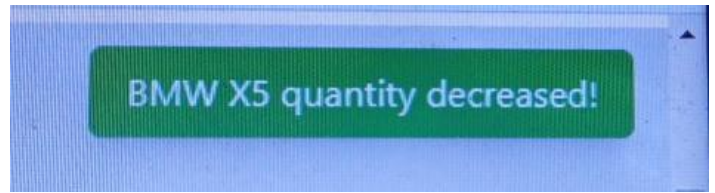
6. NOTIFICATIONS

I have added notifications on adding and removing items from the cart & favorites

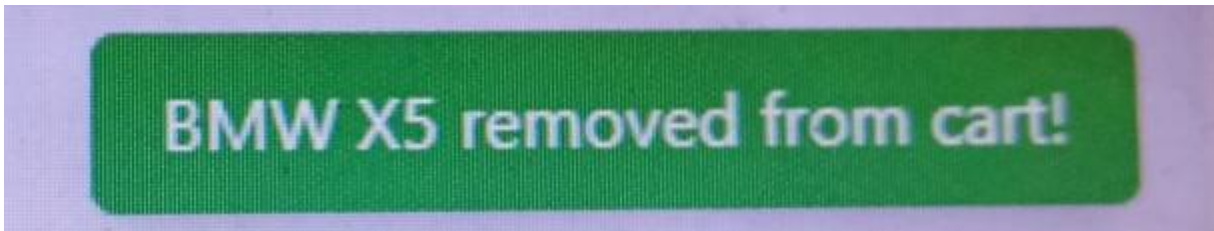
Added to cart



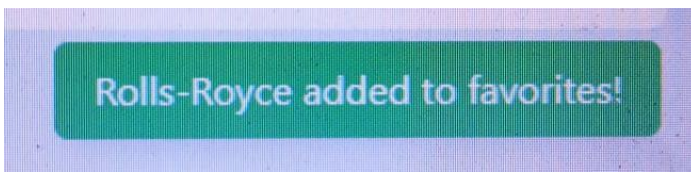
Decreased Item



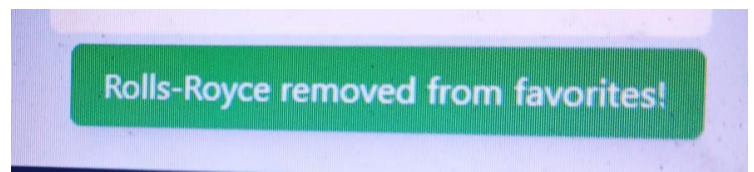
Removed From Cart



Added to Favorites



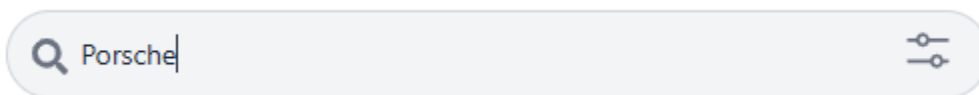
Removed from Favorites



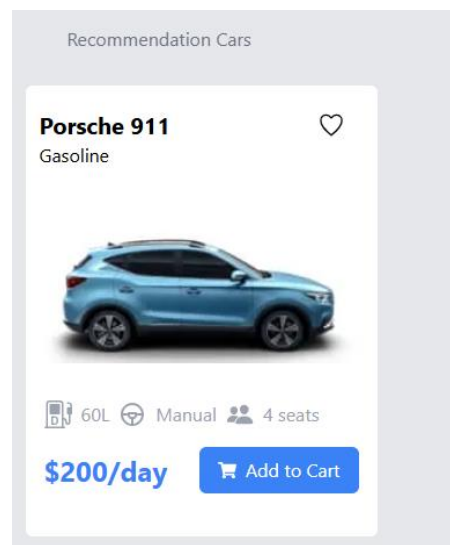
7. SEARCH BAR

I Have added search bar in my header component and same to cart I made context to make it work through whole project

Item Searched

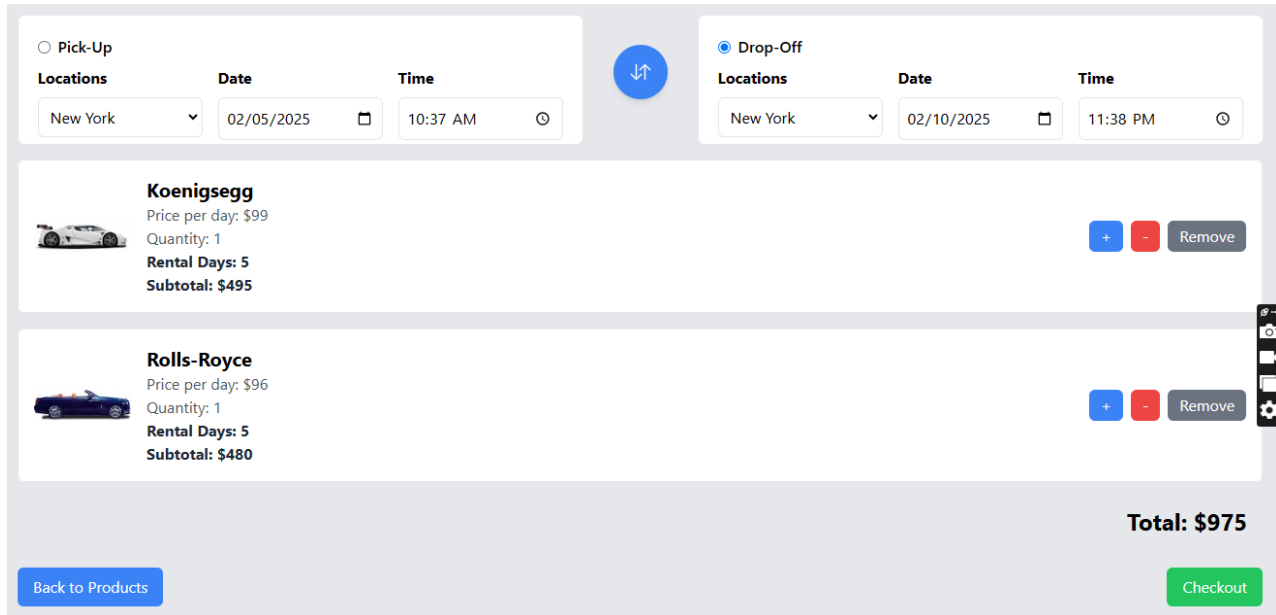


Searched Item Displayed



8. FILTER COMPONENT

I have added this filter component in my component section and displayed it in cart so the user can have options to select number of days he want to rent a car and not only that the range of the days selected by user will multiply with the amount of product and display the total amount here is the demo

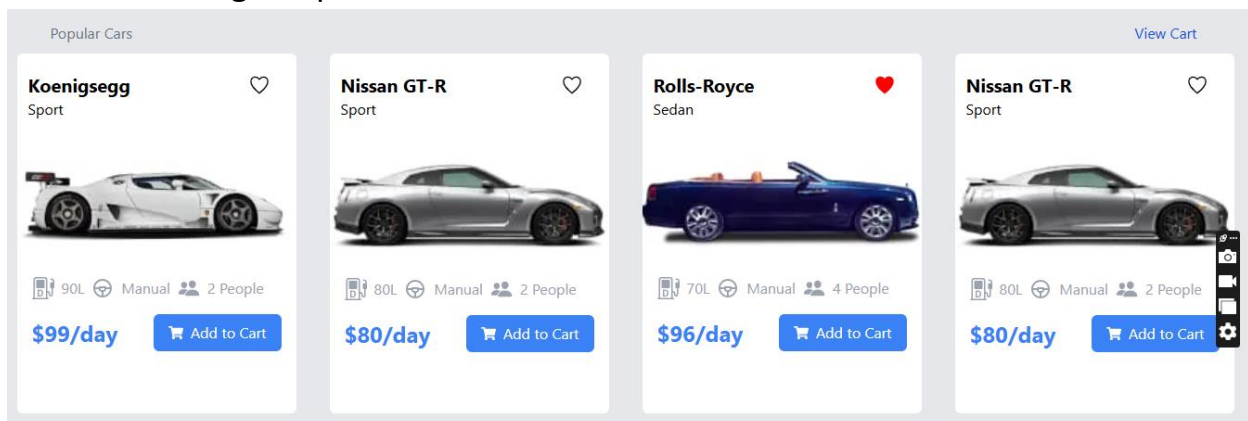


In above picture I use the time period of 5 days and its displaying the total amount.

9. FAVORATIES COMPONENTS

I have allowed user to add products in favorites so he can later check his products and I made a simple functionality on adding and removing products first is notification and the other is toogle so when the user click on the heart Icon to make it favorite it will turn red and notify the user that the item has been added and when he/she click back on it. It will remove the Product and get back to its original form.

Picture showing the product is added to favorites



As you see the favorite product icon is filled with red color to remind user that this item is added as favorites

10. PRODUCT CATEGORIES PAGE

I have made the product categories page display whole cars here and I also added filters to allow users to filter products by prices, seating capacity, and car type.

Type

☐ Sport

☐ SUV

☐ MPV

☐ Sedan

☐ Coupe

☐ Hatchback

Capacity

☐ 2 Person

☐ 4 Person

☐ 6 Person

☐ 8 Person

Price

Up to \$500/day

Show All Cars

Tesla Model 3



100kWh

Manual

5 seats

\$100/day

Add to Cart

Ford Mustang



60L

Manual

4 seats

\$80/day

Add to Cart

Mercedes-Benz C-Class



65L

Manual

5 seats

\$140/day

Add to Cart

MG ZX Exclusive



90L

Manual

2 People

\$99/day

Add to Cart

Koenigsegg



90L

Manual

2 People

\$99/day

Add to Cart

Nissan GT-R



80L

Manual

2 People

\$80/day

Add to Cart

Filtered by type

Type

☒ Sport

☐ SUV

☐ MPV

☐ Sedan

☐ Coupe

☐ Hatchback

Capacity

☐ 2 Person

☐ 4 Person

☐ 6 Person

☐ 8 Person

Koenigsegg



90L

Manual

2 People

\$99/day

Add to Cart

Nissan GT-R



80L

Manual

2 People

\$80/day

Add to Cart

Nissan GT-R



80L

Manual

2 People

\$80/day

Add to Cart

Filtered by Seating Capacity

Type

☐ Sport

☐ SUV

☐ MPV

☐ Sedan

☐ Coupe

☐ Hatchback

Capacity

☐ 2 Person

☐ 4 Person

☒ 6 Person

☐ 8 Person

Rolls-Royce



70L

Manual

6 People

\$72/day

Add to Cart

CR-V



80L

Manual

6 People

\$80/day

Add to Cart

Filter By Prices


- Type
- ☐ Sport
 - ☐ SUV
 - ☐ MPV
 - ☐ Sedan
 - ☐ Coupe
 - ☐ Hatchback

- Capacity
- ☐ 2 Person
 - ☐ 4 Person
 - ☐ 6 Person
 - ☐ 8 Person

Price
Up to \$93/day

Show All Cars


Ford Mustang



60L Manual 4 seats

\$80/day Add to Cart


Nissan GT-R



80L Manual 2 People

\$80/day Add to Cart


Nissan GT-R



80L Manual 2 People

\$80/day Add to Cart


Nissan Altima



50L Manual 5 seats

\$90/day Add to Cart


Rolls-Royce



70L Manual 6 People

\$72/day Add to Cart

CR-V



80L Manual 6 People

\$80/day Add to Cart

11. Authentication

I have used clerks for Authentication to ensure security for my project.

Sign in to rental ecommerce

Welcome back! Please sign in to continue

Continue with Google

or

Email address

Enter your email address

Continue

Don't have an account? [Sign up](#)


Secured by **clerk**
Development mode

When a user clicks on the sign in button it will open a dialogue box to allow the user to sign in

Users

All Invitations

Q Search Sort by: Created ▼ Create user

User	Username	Last signed in	Created
 Faizan Suhail faizansuhail21@gmail.com	-	February 6, 2025	January 31, 2025

User data displaying in clerk dashboard


12. PAYMENT INTEGRATION

I have used Stripe to allow users to pay for the product that they selected to rent when he done adding products to cart they will find a checkout button there when they click on the checkout button it will redirect them to Stripe where they can pay the amount.

Stripe Checkout page

[← Default sandbox](#) **TEST MODE**





Total Amount
\$406.00


Pay with  link

Or pay with card

Email

Card information

1234 1234 1234 1234    

MM / YY CVC 

Cardholder name

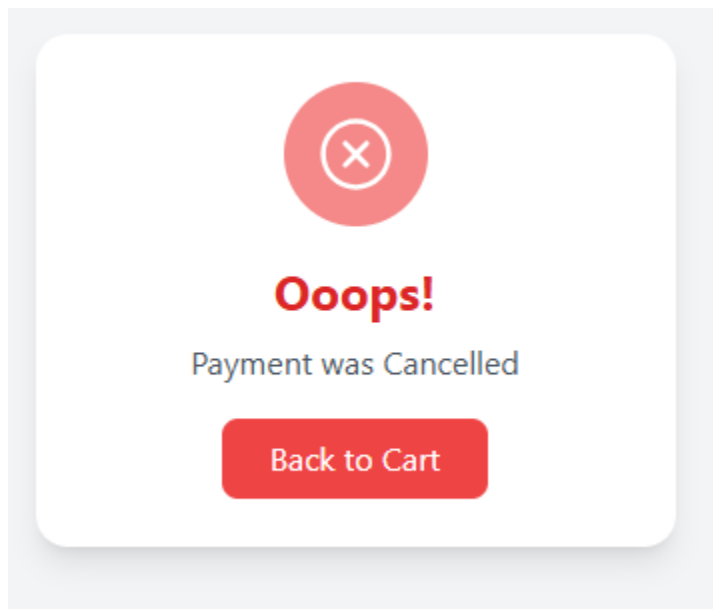
Country or region

Pakistan

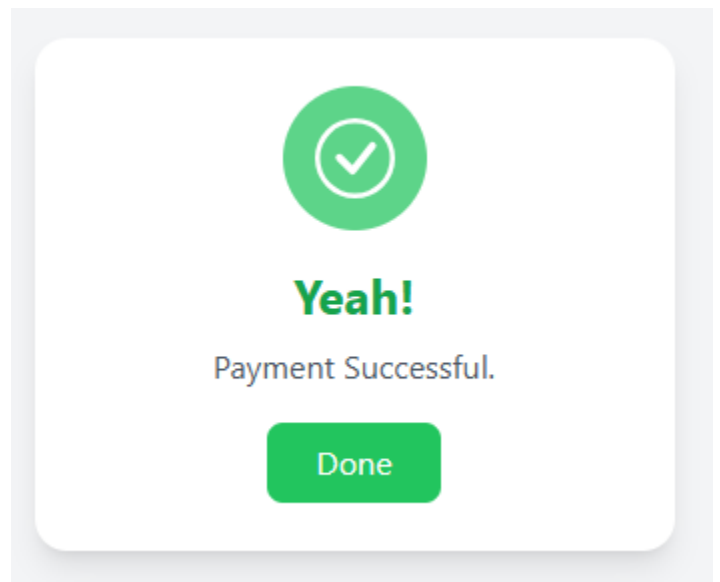
☐ Securely save my information for 1-click checkout
Pay faster on Default sandbox and everywhere Link is accepted.

Pay

Payment Unsuccessful



Payment Successful



Successful Transactions are shown in Stripe Dashboard

Transactions

+ Create payment

Analyze

All2

Succeeded2

Refunded0

Disputed0

Failed0

Uncaptured0

Date and time

Amount

Currency

Status

Payment method

More filters

Export

Edit columns

<input type="checkbox"/>	Amount		Payment method	Description	Customer	Date	Refunded date		
<input type="checkbox"/>	\$406.00	USD	Succeeded ✓	VISA **** 4242	pi_3Qp0bPRVgL3JOVaM16rxEjr7	faizansuhail31@gmail.com	Feb 6, 6:30 AM	—	...
<input type="checkbox"/>	\$179.00	USD	Succeeded ✓	VISA **** 4242	pi_3Qogu3RVgL3JOVaM0omVhEVJ	faizansuhail31@gmail.com	Feb 4, 7:50 AM	—	...