

# React Stripe Document

## Client Configuration

First store the Stripe publishable key at .env of client app

```
REACT_APP_STRIPE_API_KEY=pk_test_asdfasd
```

Install "react-stripe-checkout" for client

npm install react-stripe-checkout

```
<StripeCheckout token={handleToken}
  billingAddress
  stripeKey={stripeAPIKey}
  name="Stripe Payment"
  amount={CartUtil.calcGrandTotal(cartItems) * 100}
  description="Payments with Stripe"
  currency="INR"
  zipCode
  image={stripeImage}
  panellabel="Pay for {{amount}}">
</StripeCheckout>
```

Handle the payment with the function

```
let handleToken = async (token?, addresses?) => {
  const body = {
    product : {
      name : `${cartItems[0].name} & Others`,
      amount : CartUtil.calcGrandTotal(cartItems) * 100,
      currency : 'INR',
    },
    customer : {
      name : addresses.billing_name,
      address : {
        line1: addresses.billing_address_line1,
        postal_code: addresses.billing_address_zip,
        city: addresses.billing_address_city,
        state: addresses.billing_address_state,
        country: addresses.billing_address_country,
      }
    },
    description : "Shopping from BrainsKart",
    email : token.email,
    source : token.id,
    stripeTokenType : token.type
  }
```

```

    };

    // dispatch action
    dispatch(orderActions.makeStripePayment(body, history));
  }

```

Dispatch an action for payment

```

export const makeStripePayment = (body, history) => {
  return async (dispatch:any) => {
    dispatch({type : MAKE_STRIPE_PAYMENT_REQUEST});
    try {
      // set token
      if(AuthUtil.isLoggedIn()) {
        let token = AuthUtil.getToken();
        TokenUtil.setTokenHeader(token);
        TokenUtil.setStripeKey();
        let dataURL:string =
`${process.env.REACT_APP_SERVER_URL}/api/payments/checkout`;
        let response = await axios.post(dataURL, body);
        dispatch({type : MAKE_STRIPE_PAYMENT_SUCCESS, payload : response.data});
        dispatch(alertActions.setAlert('Payment is Success' , 'success'));
        history.push('/');
        // place an order
      }
    } catch (error) {
      console.error(error?.response?.data);
      dispatch({type : MAKE_STRIPE_PAYMENT_FAILURE, payload : error?.response?.data});
    }
  };
};

```

Set the Authorization in the Axios request header

```

public static setStripeKey(){
  axios.defaults.headers.common['Authorization'] = `Bearer
${process.env.REACT_APP_STRIPE_API_KEY}`;
}

```

## Server Configuration

First store the Stripe Secret key in the .env file

```
STRIPE_SECRET_KEY=sk_test_asfasf
```

Install packages below

```
npm install stripe @types/stripe uuid @types/uuid
```

```
const Stripe = require('stripe');  
const apiKeySecret = 'sk_test_stripe key';  
const stripe = Stripe(apiKeySecret);
```

use the below interface to accept the payment body

```
interface PaymentBody{  
  product : {  
    name : string;  
    amount : number;  
    currency : string;  
  },  
  customer : {  
    name : string;  
    address : {  
      line1: string;  
      postal_code: string;  
      city: string;  
      state: string;  
      country: string;  
    }  
  },  
  description : string;  
  email : string;  
  source : string;  
  stripeTokenType : string;  
}
```

use the below router to accept the payments

```
paymentRouter.post('/checkout', verifyToken, cors(), async (request ,  
response) => {  
  console.log(request.body);  
  try {  
    let userId = request.header['user'].id;
```

```

const paymentBody:PaymentBody = request.body;
const customer = await stripe.customers.create({
  name : paymentBody.customer.name,
  address : {
    line1: paymentBody.customer.address.line1,
    postal_code: paymentBody.customer.address.postal_code,
    city: paymentBody.customer.address.city,
    state: paymentBody.customer.address.state,
    country: paymentBody.customer.address.country,
  },
  description : paymentBody.description,
  email: paymentBody.email,
  source: paymentBody.source,
  metadata: {
    userId: userId,
  },
});

if(paymentBody.stripeTokenType === 'card'){
  const idempotencyKey = v4();
  const charge = await stripe.charges.create(
    {
      amount : paymentBody.product.amount,
      currency: paymentBody.product.currency,
      customer: customer.id,
      description: paymentBody.description,
    },
    {
      idempotencyKey,
    }
  );
}
else{
  throw Error(`Unrecognized Stripe token type:
"${paymentBody.stripeTokenType}"`);
}
response.status(200).json({msg : 'payment is success'});
}
catch (error) {
  console.error(error);
  response.status(200).json({errors : [{msg : error.message}]});
}
});
export default paymentRouter;

```