

Topic: Payment Methods: Stripe & Paypal

Speaker: Personal | Notebook: Health Management System Using Django



This Health System uses the payment methods, Stripe and Paypal.

To test it as a developer in paying via Stripe, use the test card details provided [here](#).

A screenshot of the Stripe Docs website. The browser address bar shows 'https://docs.stripe.com/testing'. The page title is 'stripe DOCS'. The navigation menu includes 'Get started', 'Payments', 'Finance automation', 'Platforms and marketplaces', 'Banking as a service', and 'Developer tools'. The 'Developer tools' section is expanded, showing 'Testing' with sub-items like 'Test your integration', 'Test mode and use cases', 'Sandboxes', 'Workbench', 'Event Destinations', 'Stripe CLI', 'Stripe Shell', 'Developers Dashboard', 'Agent toolkit', 'Stripe for Visual Studio Code', 'File uploads', and 'Feedback'. The main content area is titled 'Cards by brand' and includes a 'Caution' note about cross-border fees. Below the note is a table of test card details.

BRAND	NUMBER	CVC	DATE
Visa	4242 4242 4242 4242	Any 3 digits	Any future date
Visa (debit)	4000 0566 5566 5556	Any 3 digits	Any future date
Mastercard	5555 5555 5555 4444	Any 3 digits	Any future date
Mastercard (2-series)	2223 0031 2200 3222	Any 3 digits	Any future date
Mastercard (debit)	5200 8282 8282 8210	Any 3 digits	Any future date
Mastercard (prepaid)	5105 1051 0510 5100	Any 3 digits	Any future date
American Express	3782 822463 10005	Any 4 digits	Any future date
American Express	3714 496353 98431	Any 4 digits	Any future date
Discover	6011 1111 1111 1117	Any 3 digits	Any future date
Discover	6011 0009 9013 9424	Any 3 digits	Any future date

FRONTEND FOR STRIPE PAYMENT - CHECKOUT.HTML:

```
<script src="https://www.paypal.com/sdk/js?client-id={{paypal_client_id}}&currency=USD"></script>
```

```
<script src="https://js.stripe.com/v3/"></script>
```

```
<script>
```

```

var stripe = Stripe("{{stripe_public_key}}");

var checkoutButton = document.getElementById("stripe-payment");

try {

    checkoutButton.addEventListener("click", function () {

        var email = "{{billing.patient.email}}";

        checkoutButton.innerHTML = "Processing <i class='fas fa-spinner fa-spin ms-2'></i>";

        fetch("/stripe_payment/{{billing.billing_id}}/", {

            method: "POST",

            body: JSON.stringify({ email: email }),

        })

        .then(function (response) {

            return response.json();

        })

        .then(function (session) {

            return stripe.redirectToCheckout({ sessionId: session.sessionId });

        })

        .then(function (result) {

            if (result.error) {

                alert(result.error.message);

            }

        })

        .catch(function (error) {

            console.log("Error: ", error);

        });

    });

} catch (error) {

    console.log(error);

}

</script>

```

For Paypal, use the Sandbox. If you are testing as the MERCHANT, use the business account. If you are testing as the buyer, use the PERSONAL ACCOUNT. See the documentation [here](#).

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Sandbox accounts

API **Current** Last updated: Sept 16th, 4:49pm

Overview

The PayPal sandbox supports these account types:

Account type	Represents
Personal	The customer in a transaction.
Business	The merchant in a transaction.

To test a typical PayPal transaction, you must use both types of accounts.

When you register as a PayPal developer on the [developer site](#), the PayPal sandbox creates these sandbox accounts:

- A business account and associated API test credentials. For example, `pp_merch01-facilitator@example.com`.
- A default personal account. For example, `pp_merch01-buyer@example.com`.

You can [create additional sandbox accounts](#) on the developer site or directly on the sandbox site, <https://www.sandbox.paypal.com>.

FRONTEND FOR PAYPAL PAYMENT - CHECKOUT.HTML:

```
<script src="https://www.paypal.com/sdk/js?client-id={{paypal_client_id}}&currency=USD"></script>
```

```
<script>
```

```
function initPayPalButton() {
```

```
  paypal
```

```
  .Buttons({
```

```
    style: {
```

```
      shape: "rect",
```

```
      color: "gold",
```

```
      layout: "vertical",
```

```
      label: "paypal",
```

```
    },
```

```
    createOrder: function (data, actions) {
```

```
      return actions.order.create({
```

```
        purchase_units: [{ amount: { currency_code: "USD", value: "{{billing.total}}" } }],
```

```
      });
```

```
    },
```

```
    onApprove: function (data, actions) {
```

```
      return actions.order.capture().then(function (orderData) {
```

```
        // Full available details
```

```
        console.log("Capture result", orderData, JSON.stringify(orderData, null, 2));
```

```
        // Show a success message within this page, for example:
```

```
        const element = document.getElementById("paypal-button-container");
```

```
        element.innerHTML = "";
```

```
    element.innerHTML = "<h5>Verifying payment...</h5>";

    window.location.href = `/paypal_payment_verify/${billing.billing_id}?transaction_id=${orderData.id}`;
  });
},
onError: function (err) {
  //console.log(err);

  console.error("PayPal Button Error:", err);

  alert("An error occurred during the payment process. Please try again.");
},
})

.render("#paypal-button-container");
}

initPayPalButton();
</script>
```