# Stripe Integration

with **Salesforce** 



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## What is Stripe?

Stripe is one of the most commonly used payment gateways globally. Stripe is widely used by e-commerce, subscription-based services and by many small as well as large scale businesses to manage their payments and subscriptions. With the help of Rest APIs Stripe makes it easy for us to manage our payments.

This article will highlight the project lifecycle and the steps for Salesforce to Stripe integration using input from an LWC component.

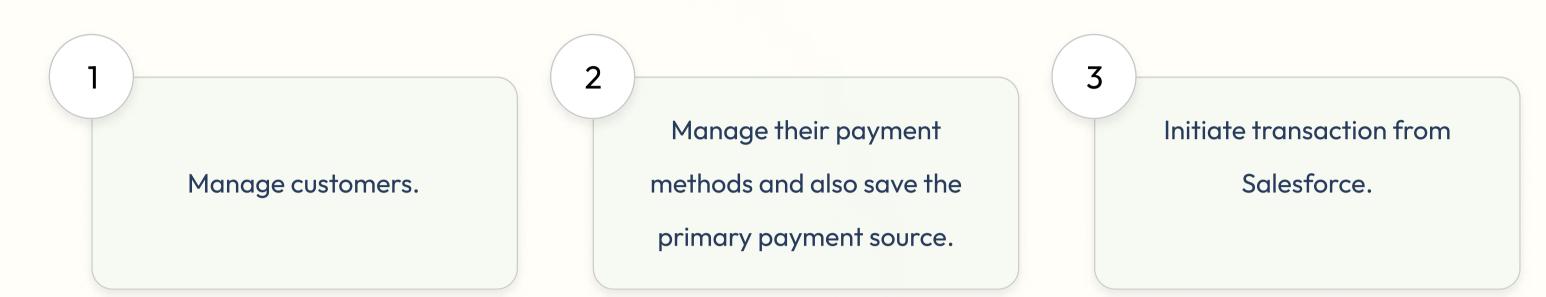






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## Some key use cases of Stripe



Case Study

### Key Challenge

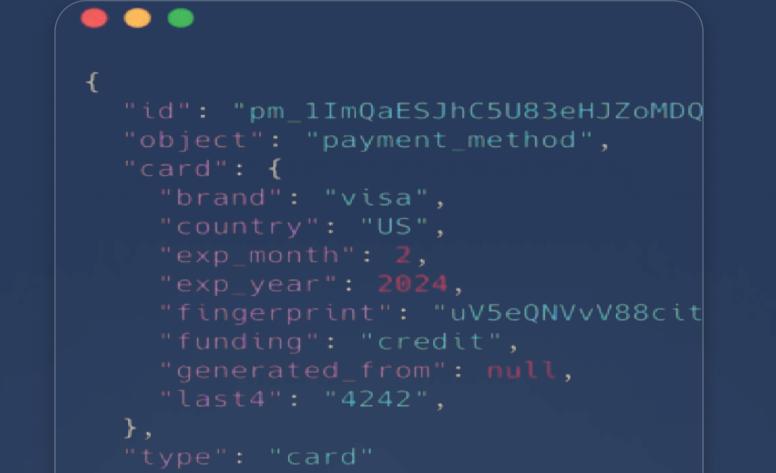
Despite detailed documentation provided by Stripe, integration with Stripe using Apex was challenging while passing the nested object structure in URL encoded format.



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#### ...Key Challenge

How we usually pass nested object structure in JSON.



#### Case Study

How Stripe accepts nested objects:

. string params; HttpRequest.setEndpoint(PAYMENT\_URL); HttpRequest.setMethod('POST'); HttpRequest.setHeader('Authorization', 'Bearer '+API\_KEY); HttpRequest.setHeader('Content-Type', 'application/x-www-form-urlencoded');

params = 'type=card'+ '&card[number]='+cardnumber+'&card[exp\_month]='+cardExpiryMonth+'&card[exp\_year]='+cardExpiryYear;

HttpRequest.setBody(params);

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## Steps to integrate Stripe with Salesforce.

Firstly you would need the secret key from your Stripe account. To get the secret key go to Developers ->API key -> check on reveal key to get it.

		TEST DATA			ý Ø
Home Activate your account	API keys			Learn more a	bout API authentication
Payments Balances	Viewing test API keys. T	oggle to view live keys.			O Viewing test da
Customers Connected accounts Products	Standard keys These keys will allow you to	authenticate API requests. Learn more			
Reports	NAME	TOKEN	LAST USED	CREATED	
Developers API keys Webhooks	Publishable key	pk_test_51IgbcsSJhC5U83eHKyXTowBM1x1YMjn6c E8YuZQ2zdIDjqY9N78yuJrhzTisY7Do3Euhms6m4A2 z2fCyAfV16qhG005v8cfQci	16 Apr	16 Apr	
Events Logs	Secret key	Reveal test key	2 May	16 Apr	
Viewing test data Settings	Restricted keys For greater security, you can more	create restricted API keys that limit access and permissions for dif	ferent areas of your ac	count data. Learn	+ Create restricted ke
	NAME			TOKEN	LAST USED CREATED
	No restricted keys				

Once you have the key you can store it in your environment (including a custom metadata).

Case Study





Next step will be to create a screen for the inputs required for the integration, which is called the Helper. This aided in creating the customer, adding payment methods and initiating the payments. A code was developed to use a Stripe Helper to create the request and call Stripe API for customers, payment methods and then to initiate the payments.

			)
	Name		
	Email		
	Card Number		
	2VV	*Card Expiry Month	
	card Expiry Year	* Service Fee	
1	CurrencyCode		
9	itripe Id		
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Lastly, once the payment is processed, you can check your Stripe account for all the records and store the transaction Id in Salesforce for future reference(eg.Lead, if making payments for a lead record.)

public	without sharing class StripeIntegrationHelper {	
	blic static string customerId; blic static string paymentMethodId;	
pu	<pre>blic static void payUsingStripe(StripePaymentForCustomerController.wrapper leadObject)</pre>	ł
	<pre>string key = getSecretKey(); if(String.isNotBlank(key)) {</pre>	
	<pre>APIresponse customerResponse = createCustomerInStripe(key, leadObject); if(customerResponse.isSuccess) {     customerId = customerResponse.response;     APIresponse paymentMethodResponse = createPaymentMethodInStripe(key,</pre>	
	<pre>tf(paymentMethodResponse.isSuccess) {</pre>	
		ead0bje
	<pre>if(paymentMethodResponseForAttach.isSuccess) {</pre>	true);
create	APIresponse paymentInitiationResponseForAttach = PaymentInitiateInStripe(key,	
lead0	bject);	
	<pre>if(paymentInitiationResponseForAttach.isSuccess) {</pre>	
	<pre>} else {    throw new applicationException(paymentInitiationResponseForAttach.mes</pre>	sage);
	<pre>} else {     throw new applicationException(paymentMethodResponseForAttach.message</pre>	;);
	<pre>} else {     throw new applicationException(paymentMethodResponse.message);</pre>	
	<pre>} else {    throw new applicationException(customerResponse.message);</pre>	
	) 	
}		
pr	<pre>ivate static void upadateLead(string leadId,</pre>	
	<pre>update new lead(Id=leadId,</pre>	
}	ser cperoc = ser cpero),	
pr	<pre>ivate static string getSecretKey() {     stripe_detailsmdt stripedetails = [SELECT Id,</pre>	
	DeveloperName, QualifiedApiName, Stripe_secret_keyc FROM stripe_details_	mdt
	<pre>WHERE developerName = 'stripe_details'];</pre>	

## 1.2 if(stripedetails!=null) { return stripedetails.Stripe\_secret\_key\_c; private static APIresponse createCustomerInStripe(string key, ripePaymentForCustomerController.wrapper leadObject) { APIresponse APIresponse = tripeCustomerAPIServiceHelper.createCustomerInStripe(leadObject.email, private static APIresponse createPaymentMethodInStripe(string key, StripePaymentForCustomerController.wrapper eadObject. StripePayment StripePayment = new StripePayment(key); APIresponse APIresponse= StripePayment.createPaymentMethodInStripe('card', customerID, paymentMethodId, isAttachCall); StripePaymentForCustomerController.wrapper leadObject) { stripePaymentInitiationServiceHelper(key); APIresponse APIresponse = stripePaymentInitiationServiceHelper.createPaymentInitiationInStripe(Integer.valueOf(leadObject.Amount\* return APIresponse;

Case Study

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