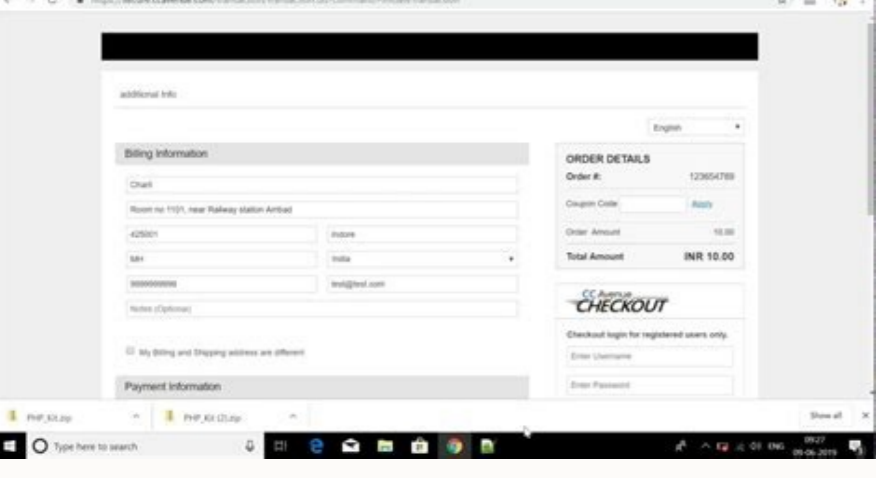


I'm not robot!



# CCAvenue®

## 100+

Maximum Payment Options  
5 Credit Cards, 73 Debit/ATM Cards, 50+ Net Banking, 5 Cash Cards

## \$ ₹ £

Multiple Currency Processing  
Deliver localized buying experiences and let your customers enjoy the convenience of paying in the currency they know best.

## 1

CCAvenue 1Click Checkout  
Quick and simple checkout experience for your returning customers



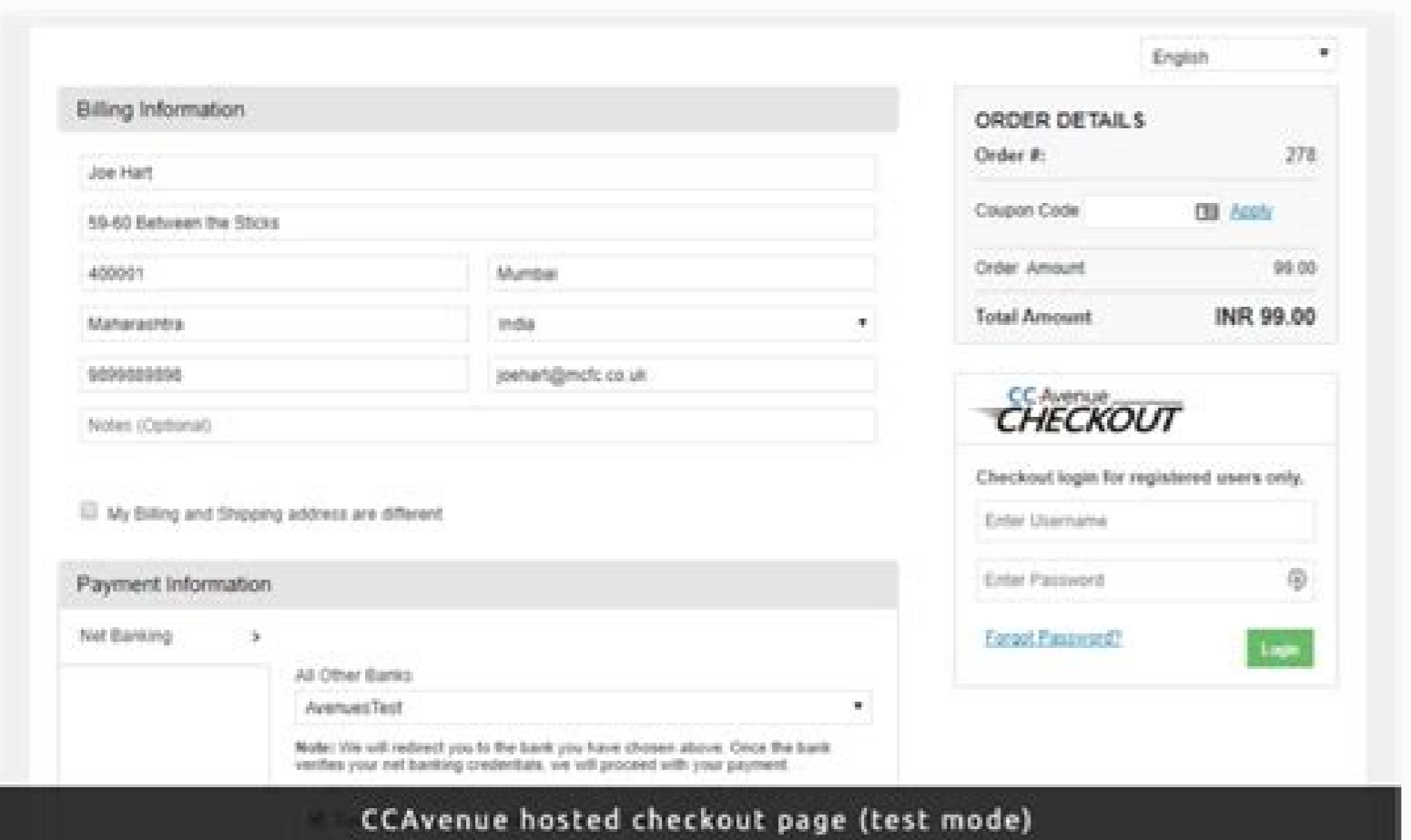
iFrame Integration  
Accept payments on your checkout page without being PCI DSS certified. Reduce payment logs and consistently deliver your brand experience.



Smart Dynamic Routing  
Switch transaction dynamically depending on bank's performance to ensure consistently high success rates.



Marketing Tools  
Innovative and enhanced tools that complement your marketing efforts and help nurture key customers.



CCAvenue payment gateway integration in android source code. CCAvenue payment gateway integration in android example. CCAvenue payment gateway integration in android tutorial. How to integrate ccavenue payment gateway in shopify. CCAvenue payment gateway integration in android github.

We recently made an Android app and a web-app for our client (Kabra Express) with CCAvenue as the payment gateway. Kabra Express is one of the largest travel company in Gujarat and has operations throughout the country. CCAvenue is one of the biggest payment gateways in India. It supports multiple payment options, mobile payments (via WebView) and is highly secure. However, the lack of proper documentation makes its integration with mobile apps a bit troublesome. Looking at how many people use CCAvenue, we decided to help the community by writing an article on its integration with Android. Prerequisites Get your public IP address whitelisted at CCAvenue in both production and staging environment (mail them about it, mentioning your merchant ID)Get access code and encryption key from the dashboard. For this, you'll need to ask the support to generate these for your hosts (like localhost or example.com etc). The whole mechanism relies on RSA. RSA (Rivest-Shamir-Adleman) is one of the first public-key cryptosystems and is widely used for secure data transmission. In such a cryptosystem, the encryption key is public and it is different from the decryption key which is kept secret (private). The request/response flow between Android app and servers This request/response flow, as it happens Mobile app sends a request to the PHP server for RSA keys. The PHP server calls the CCAvenue server, with the access code and a unique order ID.CCAvenue replies with a text string which is the RSA key.This RSA keys is then sent back to the Android app in the response.Using the RSA key, the mobile app encrypts the payment information like customer info, order id, amount etc and performs a POST request using WebView to reach the CCAvenue payment page. The fields that are encrypted includes amount, currency, billing\_tel (phone number), billing\_email, billing\_name. The user is presented with the CCAvenue payment page.Depending on the payment status (success/failure), CCAvenue redirects the user to the respective URL on the PHP server.The server, after parsing the gateway response, returns an HTML page (to the WebView) which has the Java-JS bridging code. The Java code is executed from the JS (inside the HTML page) and the user is sent to the activity in the app accordingly. Explaining the flow Step 1, 2, 3 and 4: All these steps happen in a single request-response cycle, initiated by the mobile app. The PHP server gets a request for RSA key from the app, it calls CCAvenue API using cURL. An example code is below: public function getRSAPublicKey(\$orderId) { \$url = " ; \$accessCode = "access-code"; \$fields = array('access\_code' => \$accessCode, 'order\_id' => \$orderId ); \$postvars = " ; \$sep = " ; foreach (\$fields as \$key => \$value) { \$postvars .= \$sep . urlencode(\$key) . '=' . urlencode(\$value); \$sep = '&'; } \$ch = curl\_init(); curl\_setopt(\$ch, CURLOPT\_URL, \$url); curl\_setopt(\$ch, CURLOPT\_POST, count(\$fields)); //curl\_setopt(\$ch, CURLOPT\_CAINFO, 'replace this with your cacert.pem file path here'); curl\_setopt(\$ch, CURLOPT\_POSTFIELDS, \$postvars); curl\_setopt(\$ch, CURLOPT\_RETURNTRANSFER, true); curl\_setopt(\$ch, CURLOPT\_SSL\_VERIFYPEER, false); \$result = curl\_exec(\$ch); return \$result; } The response sent by the server will have the RSA key (from the above code), order id (must be unique and a whole number), access code, merchant id, redirect (success) and cancel URLs. As soon as the app gets this RSA key (and other parameters in response), it encrypts amount, currency, billing\_tel (phone number), billing\_email, billing\_name using this key. The java code for encryption method is below: public static String encrypt(String plainText, String key) { try { PublicKey publicKey = KeyFactory.getInstance("RSA"); generatePublic(new X509EncodedKeySpec(Base64.decode(key, Base64.DEFAULT))); Cipher cipher = Cipher.getInstance("RSA/ECB/PKCS1Padding"); cipher.init(Cipher.ENCRYPT\_MODE, publicKey); return Base64.encodeToString(cipher.doFinal(plainText.getBytes("UTF-8")), Base64.DEFAULT); } catch (Exception e) { e.printStackTrace(); } return null; } The string returned by this method is POSTed to CCAvenue's transaction URL via a WebView (code provided below) along with other parameters received from the server. The payment page is now presented to the user. Depending on the success or failure of the payment, the server and then the app will get the response. Now comes the interesting part. You must be wondering- how does our app know if the payment was successful or failure? After all, the WebView is completely detached from the normal flow of the app as it renders HTML pages. The magic lies in the JS-Java bridge that allows execution of Java from JavaScript in Android! You can read more about it here. Here's how it happens (assuming that the payment has been made successfully): The success URL sent to CCAvenue is our server's URL. This URL when hit on redirection, will cause a series of events: response decryption, transaction status checks, updating the database, sending relevant emails and finally returning an HTML page in the response (Keep in mind that it's the WebView that's getting redirected along with the POST data from CCAvenue). This HTML is extremely simple: Please wait. Payment.onSuccess(); See the line Payment.onSuccess(); This is the magic sauce. We attach something called as a JavaScript interface to the WebView. This interface is given a name (Payment, in our case). This interface's object is made available to JS and it calls the methods of its equivalent Java class. A sample code is below: public class CCAvenueWebViewActivity extends BaseActivity { private android.webkit.WebView webView; @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity\_ccavenue\_webview); webView = findViewById(R.id.ccavenue\_webview); String url = getIntent().getStringExtra("url"); webView.setWebViewClient(new WebViewClient()); webView.getSettings().setJavaScriptEnabled(true); webView.getSettings().setDomStorageEnabled(true); webView.getSettings().setJavaScriptCanOpenWindowsAutomatically(true); webView.addJavascriptInterface(new Payment(this), "Payment"); } public class Payment { Context mContext; Intent intent; Payment(Context c) { mContext = c; intent = new Intent(); } @JavascriptInterface public void onSuccess(final String result) { intent.putExtra("result", result); setResult(RESULT\_OK, intent); finish(); } @JavascriptInterface public void onFailure(final String result) { intent.putExtra("result", result); setResult(RESULT\_CANCELED, intent); finish(); } } } As you can see, "Payment" is just a simple class with two methods and @JavascriptInterface annotation. This annotation tells the WebView to bind JS-Java objects together and hence, calling Payment.onSuccess from JS is similar to calling it from Java! onSuccess() sets the result code, and finishes the WebView activity. This way our app know if the payment was successful or failure. This concludes the journey of integrating CCAvenue in an Android app in case of non-seamless integration. We almost always prefer this way when integrating other payment gateways too (if they don't have an SDK). We also almost always go with non-seamless integration as it requires little adherence to compliance. Steps to integrate CCAvenue Payment Gateway Create Merchant Account. Login to Merchant Dashboard and download CCAvenue payment integration kit. get Security keys (Merchant id, Access Code, Working key). Configure CCAvenue security keys and (test/live) endpoint in your PHP application. How can I add payment gateway in asp net? There are three step of process: Requesting the form token. Embed the payment form or redirect the customer to the payment form by sending an HTML POST containing the form token. Your customer completes and submits the payment form. The API sends the transaction to Authorize.Net for processing. How do I integrate CCAvenue payment gateway in Android app? Payment Gateway Integration in Android & Web Kindly make sure that your Public/Outgoing IP has been whitelisted on CCAvenue's end. Place GetRSA and cacResponseHandler files on your server. In your App, mention the path of GetRSA (GetRSA key URL) file kept on your server. How does CCAvenue payment gateway integrate in Java? Integration Pre-requisites. 1- An activated CCAvenue account to get. Integration Types. Process flow. Implementation Steps. Step-1 :- Front end requests for encrypted data from Server. Step-2 :- Server encrypts the data and sends the response to the frontend. Step-3 :- Frontend will redirect to the CCAvenue billing page. How do you test CCAvenue integration? To test your code, you can use as form URL to CCAvenue website. All the transactions to this test URL will not be processed. How do I integrate a payment gateway? How to Choose and Integrate Payment Gateway: Online Payments, Transaction Processing, and Payment Gateways Providers Study the pricing. Check transaction limits for a given provider. Examine merchant account options. Make sure the gateway supports necessary payment methods and credit cards. Consider mobile payments. How do you integrate CCAvenue payment gateway in ionic 3? 3 Answers By default ccavenue blocks all ip addresses from showing payment page except the url by which user has registered. First check what ip address is being used by the app while run through ionic serve , ask the ccavenue support to whitelist that ip and also port 8100 or whatever your app is using. How does WebView handle payment gateway in Android? Create Android Payment Gateway Using WebView PayUMoney Open Visual Studio->New Project->Templates->Visual C#->Android->Blank App. Next, create New Layout for Payment Success and Failure Page. After this, create Activity Page for both design pages. Next, open Solution Explorer-> Project Name->Resources->Layout->Main. What is initiated in CCAvenue? These Facility Providers allows CCAvenue/Service Provider to use the internet payment gateways developed by them to process all type of online Payment Instruments and all online Transaction initiated by a Customer on Merchant's Site. How do I test my CCAvenue payment gateway? What is the best payment gateway? Collecting International payments. For recurring payments and e-commerce, Paypal is the best payment gateway. Their transaction fee is highest but its the most reliable payment gateway to collect international payments. Good news is that, Paypal has started supporting domestic transactions from India as well. Do you need to get a payment gateway service? As long as you accept (or want to accept) credit card payments online or on a mobile device, you'll need a payment gateway. Without it, you won't be able to verify a customer's credit card information, process payments, or finalize the sale. If your business is brick-and-mortar only, you might not need a payment gateway. Does Citrus Pay the best payment gateway in India? Citrus Pay is one of the top payment gateways in India today. It supports most credit cards like Visa, MasterCard, American Express, etc. The payment process is quick and secure as Citrus Pay has high levels of security in place. How does the payment gateway work? A payment gateway facilitates a payment transaction by the transfer of information between a payment portal (such as a website, mobile phone or interactive voice response service) and the front end processor or an acquiring bank. In simple steps, a payment gateway:

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