

Easebuzz React Native Integration

Download React Native SDK from github using below link, extract it and put it in the relevant directory.

<https://github.com/easebuzz/paywitheasebuzz-react-native-lib>

Installing SDK:

1. Run the below commands to install sdk into your project.
 - 1.1 *npm install \$(npm pack <Path of React Native SDK>/easebuzz-kit | tail -1)*
Example : npm install \$(npm pack HomeDirectory/SDKfolder/easebuzz-kit | tail -1)
 - 1.2. *react-native link react-native-easebuzz-kit*

Android Setup:

1. Copy **peb-lib.aar** file into android/app/libs/ folder of your react native application(If libs folder is not there, Please create it manually).

1.1. Build.gradle(app) modifications.

Add this line to build.gradle (app)

```
defaultConfig {  
    multiDexEnabled true  
}
```

Add the following lines to packagingOptions,

```
exclude 'META-INF/DEPENDENCIES'  
exclude 'META-INF/NOTICE'  
exclude 'META-INF/LICENSE'  
exclude 'META-INF/LICENSE.txt'  
exclude 'META-INF/NOTICE.txt'
```

Add the following line to dexOptions.

```
javaMaxHeapSize "4g"
```

Add repositories section as follows.

```
repositories {  
    flatDir {  
        dirs 'libs'  
    }  
}
```

Add the following dependencies

```
implementation "com.android.support:appcompat-v7:28.0.0"  
implementation "com.android.support:design:28.0.0"  
implementation 'com.android.support:recyclerview-v7:28.0.0'  
implementation 'com.android.support:cardview-v7:28.0.0'  
implementation 'com.squareup.picasso:picasso:2.71828'  
implementation 'com.android.support:multidex:1.0.1'  
implementation 'com.squareup.okhttp:okhttp:2.4.0'  
implementation 'com.squareup.okhttp:okhttp-urlconnection:2.2.0'  
implementation 'com.squareup.retrofit2:retrofit:2.3.0'  
implementation 'com.squareup.retrofit2:converter-gson:2.3.0'  
implementation(name: 'peb-lib', ext: 'aar')
```

1.2. Change <Application> tag of androidManifest.xml file as below in your projects android folder.

```
android:allowBackup="true"
```

iOS Setup:

1. Copy easebuzz.framework of your application in embedded binaries.
2. Press + and add framework using 'Add other' button.
3. Browse framework: file from your folder and select 'copy items if needed'.
4. Set Always embed swift standard libraries to YES from project build settings
5. Create empty header file = AppName--Bridging-Header.h file () if your Application is in core Objective-C.
6. Remove unused architectures, refer below link.

<https://docs.easebuzz.in/mobile-integration-ios/remove-architectures>

Your iOS setup is done.

React Native Integration Code (Java Script):

5. Write below JavaScript Code to Start Payment using Easebuzz Payment Gateway

5.1 Import following components

```
import {Platform, Button, DeviceEventEmitter,  
NativeModules,NativeEventEmitter} from 'react-native';
```

5.2 Declare the Easebuzz Specific variables in state as below.

```
this.state = {  
  eb_transaction_amount: "10",  
  eb_start_payment: false  
}
```

5.3 Write below code in componentDidMount() method.

```
this.setState({eb_start_payment: false});  
if (Platform.OS === "android") {  
  this.EasebuzzEventsubscription =  
    DeviceEventEmitter.addListener('EasebuzzPaymentResultEvent', (data) => {  
      this.setState({eb_start_payment: false});  
      alert('(Payment Result: ${data.result}` + `)::`+ `Response :  
      ${data.payment_response}`);  
      // Handle payment response according your requirement  
    });  
}  
else{  
  const { RNEasebuzz } = NativeModules;  
  const easebuzzManagerEmitter = new NativeEventEmitter(RNEasebuzz);  
  const EasebuzziOSEventssubscription = easebuzzManagerEmitter.addListener(  
    'EasebuzzPaymentResultEvent',  
    (data) => {  
      this.setState({eb_start_payment: false});  
      alert('(Payment Result: ${data.result}`);  
    });  
}
```

5.4 Write below code in componentWillUnmount() method.

```
if (Platform.OS === "android") {  
  this.EasebuzzEventssubscription.remove();  
}else{  
  this.EasebuzziOSEventssubscription.remove();  
  this.easebuzzManagerEmitter.remove();  
}
```

5.5 Write below method to start Payment

```
startPaymentEasebuzz = (options) => {  
  if(this.state.eb_start_payment === false)  
  {  
    this.setState({eb_start_payment: true});  
    NativeModules.EasebuzzModule.PayEasebuzz(options);  
  }  
}
```

5.6 call startPaymentEasebuzz method on Click of Pay Button.

```
<Button onPress={() => {  
  var options = {txnid: 'UNIQUE_TRANSACTION_ID',  
    amount: this.state.eb_transaction_amount,  
    productinfo: 'Product Information',  
    firstname: 'Customer First Name',  
    email: "customer@gmail.com",  
    phone: "1234567891",  
    key: "YOUR_MERCHANT_KEY",  
    udf1: "",  
    udf2: "",  
    udf3: "",  
    udf4: "",  
    udf5: "",  
    address1: "",  
    address2: "",  
    city: "",  
    state: "",  
    country: "",  
    zipcode: "",  
    unique_id: "", //Customers unique ID  
    hash: "Create hash using following procedure",  
    pay_mode: "production" // This can be "test" or "production"}  
  this.startPaymentEasebuzz(options)  
}}  
title="Make Payment" />
```

For More description of request and Response refer below link.

<https://docs.easebuzz.in/mobile-integration-react-native/handle-response>

Hash generation (sha512):

Hash is a mandatory parameter – used specifically to avoid any tampering during the transaction. It is sha512 encrypted string. And hash sequence is mentioned below.

Hash sequence:

key|txnid|amount|productinfo|firstname|email_id|udf1|udf2|udf3|udf4|udf5|||||salt|key

Generate the sha512 of above hash sequence. and pass as a hash parameter.

Note:

1. Make sure the parameters that you are passing to Easebuzz SDK intent should exactly be the same which has been used to generate the hash.

For example.

1. If you used demo@gmail.com to generate the hash and Demo@gmail.com is passed to SDK intent, Then It will throw an error.
2. If you appended space to any parameter while generating a hash and passed the space appended parameter to SDK intent then It will throw an error.
3. If you are using amount 1.00, Then It will throw an error. Please use amount like 1.0 (Complete number's amount). The amount like 1.12 will work fine.

Suggestion: It would be more secure if the hash generation process is done at back end (Server Side)