

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|txn_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.