Easebuzz React Native Integration

Download React Native SDK from github using below link.

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

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"

1.3. Copy **RNEasebuzzKitModule.java**, **EasebuzzUtility.java**, **RNEasebuzzKitPackage.java** file into your android/app/src/java/your-package-path/ folder. Copy package name from the Mainactivity.java and paste it into all three files mentioned above.

1.4. Change getPackages() method of MainApplication.java file in your projects android folder as below.

```
@Override
  protected List<ReactPackage> getPackages() {
   return Arrays.<ReactPackage>asList(
     new MainReactPackage(),
     new RNEasebuzzKitPackage()
   );
  }
```

Your Android setup is done.

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 a bridge between Swift/Objective C and your React Component.

5.1 Create a swift file EasebuzzModule.swift class and Add Following code

```swift
import Foundation
import Easebuzz
@objc(EasebuzzModule)
class EasebuzzModule: NSObject,PayWithEasebuzzCallback {
 func PEBCallback(data: [String : AnyObject]) {
   RNEasebuzz.paywithEasebuzzCallback(data: data)
 }
 @objc
 static func requiresMainQueueSetup() -> Bool {
   return true
 }
 @objc func PayEasebuzz(_ dict: Dictionary<String,Any>) {
  let payment = Payment.init(customerData: dict as! Dictionary<String, String>)
  let paymentValid = payment.isValid().validity
  if !paymentValid {
    print("Invalid records")
  }else{
    DispatchQueue.main.async {
      PayWithEasebuzz.setUp(pebCallback: self )
      PayWithEasebuzz.invokePaymentOptionsView(paymentObj: payment, isFrom: self)
    }
  }
 }
}
```

5.2 Create header file = AppName--Bridging-Header.h file () and import this two file.

```
#import "React/RCTBridgeModule.h"
#import <React/RCTEventEmitter.h>
```

5.3 Accessing a va*riable in JavaScript from Swift and Callbacks*
Download the RNEasebuzz.swift and RNEasebuzz.m file from github and copy into your project's ios folder.

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 EasebuzziOSEventsubscription = 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.EasebuzzEventsubscription.remove();
}else{
    this.EasebuzziOSEventsubscription.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.PayWithEasebuzz(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",
                surl: "",
                furl: "",
                key: "YOUR_MERCHANT_KEY",
                udf1: "",
                udf2: "",
                udf3: "",
                udf4: "",
                udf5: "",
                address1: "",
                address2: "",
                city: "",
                state: "",
                country: "",
                zipcode: "",
                merchant_id: "",
                isMobile: "",
                unique_id: "",  //Customers unique ID
                salt: "YOUR_MERCHANT_SALT",
                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-android/request-response-desc