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*
>
> ```
> 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