

PayWithEaseBuzz Payment kit Integration (Android)

1. Copy **peb-lib.aar** or **peb-lib-android-x.aar(For Android-x Project)** file into app/libs/ folder of merchant application.
2. Proguard Rules configurations:
Add below line to your proguard rules.

```
-keepclassmembers class com.easebuzz.payment.kit.**{  
    *;  
}
```

3. Build.gradle(module) modifications.
Add this line to build.gradle (module)
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

All the dependencies mentioned below are compulsory. If your app is already using any of the following dependencies then you do not require to add these particular dependencies.

Note : Add the dependencies based on Android and Android-X Project.

Dependencies For Android :

1. compile(name: 'peb-lib', ext: 'aar')
2. compile 'com.android.support:cardview-v7:28.0.0'
3. compile 'com.android.support:recyclerview-v7:28.0.0'
4. compile 'com.squareup.okhttp:okhttp:2.4.0'
5. compile 'com.android.support:multidex:1.0.1'
6. compile 'com.squareup.okhttp:okhttp-urlconnection:2.2.0'

7. compile 'com.squareup.retrofit2:retrofit:2.3.0'
8. compile 'com.squareup.retrofit2:converter-gson:2.3.0'

Dependencies For Android-X : (For Android-X Projects)

1. implementation (name: 'peb-lib-android-x', ext: 'aar')
2. implementation 'com.google.android.material:material:1.0.0'
3. implementation "androidx.cardview:cardview:1.0.0"
4. implementation 'com.android.support:recyclerview-v7:28.0.0'
5. implementation 'com.squareup.okhttp:okhttp:2.4.0'
6. implementation 'androidx.multidex:multidex:2.0.0'
7. implementation 'com.squareup.okhttp:okhttp-urlconnection:2.2.0'
8. implementation 'com.squareup.retrofit2:retrofit:2.5.0'
9. implementation 'com.squareup.retrofit2:converter-gson:2.5.0'
- 10. implementation 'com.google.android.gms:play-services-auth:17.0.0'**
- 11. implementation 'com.google.android.gms:play-services-auth-api-phone:17.1.0'**

Note : If you want Google Pay smooth payment, Then add below dependency and library in your project. Below section is mandatory to use payment through Google Pay Intent.

1. implementation '**com.google.android.gms:play-services-tasks:15.0.1**'
2. implementation files(**libs/gpay.aar**)

- To use google pay you need to add gpay.aar file into app/libs/ folder of the merchant application.
- [Download gpay.aar file.](#)

Your Easebuzz Kit configuration is done. Follow on for steps to integrate.

4. Initiating Payment Transaction Request from Merchant App.

After having successfully set up the build.gradle configuration files and successfully added the **peb-lib.aar** to your app/libs, your app is required to start the PWECouponsActivity of PayWithEaseBuzz module. The detailed process is described below.

1. On click of pay button on your app you need to start PWECouponsActivity and required to pass the necessary parameters to PWECouponsActivity using Intent. (Use startActivityForResult() method to start the Activity)

2. Import these packages

```
import com.easebuzz.payment.kit.PWECouponsActivity;
import datamodels.PWEStructDataModel;
```

3. startActivityForResult() method syntax:

```
startActivityForResult(intent, PWEStructDataModel.PWE_REQUEST_CODE);
PWEStructDataModel.PWE_REQUEST_CODE is integer constant, having value 100.
```

Here the **intent** is used to start the PWECouponsActivity. Also you need to pass some crucial parameters using putExtra() method described below in detail,

```
Intent intentProceed = new Intent(MerchantAppActivity.this, PWECouponsActivity.class);
intentProceed.setFlags(Intent.FLAG_ACTIVITY_REORDER_TO_FRONT); // This is mandatory flag
intentProceed.putExtra("txnId",merchant_txnId);
intentProceed.putExtra("amount",merchant_payment_amount);
intentProceed.putExtra("productInfo",merchant_productInfo);
intentProceed.putExtra("firstname",customer_firstName);
intentProceed.putExtra("email",customer_email_id);
intentProceed.putExtra("phone",customer_phone);
intentProceed.putExtra("key",merchant_key);
intentProceed.putExtra("udf1",merchant_udf1);
intentProceed.putExtra("udf2",merchant_udf2);
intentProceed.putExtra("udf3",merchant_udf3);
intentProceed.putExtra("udf4",merchant_udf4);
intentProceed.putExtra("udf5",merchant_udf5);
intentProceed.putExtra("address1",customer_address1);
intentProceed.putExtra("address2",customer_address2);
intentProceed.putExtra("city",customer_city);
intentProceed.putExtra("state",customer_state);
intentProceed.putExtra("country",customer_country);
intentProceed.putExtra("zipcode",customer_zipcode);
intentProceed.putExtra("hash",hash);
intentProceed.putExtra("unique_id",customers_unique_id);
intentProceed.putExtra("pay_mode",payment_mode);
startActivityForResult(intentProceed, PWEStructDataModel.PWE_REQUEST_CODE);
```

Note : Please do not change the name parameter of the putExtra() method mentioned in the above code.
The datatype of the value can be changed according to the value to be sent.

Description of each parameter :

- 1.**txnid** : Mandatory parameter. Data type should be String.This is the transaction id.
- 2.**amount** : Mandatory parameter. Data type should be Double . This is the amount of the transaction.
- 3.**productinfo** : Mandatory parameter. Data type should be String . This parameter should contain a brief product description
- 4.**firstname** : Mandatory parameter. Data type should be String. This is name of the customer who is doing the transaction.
- 5.**email** : Mandatory parameter. Data type should be String . this is email id of the customer who is doing transaction.
- 6.**phone** : Mandatory parameter. Data type should be String. Phone number of the customer.
- 7.**key** : Mandatory parameter. Data type should be String. This parameter is the unique Merchant Key provided by Easebuzz for your merchant account. The Merchant Key acts as the unique identifier (primary key) to identify a particular Merchant Account for our interpretation. While posting the data to us, you need to send this Merchant Key value.
8. **udf1** : Optional parameter. Data type should be String. User defined field 1 – This parameter has been made for you to keep any information corresponding to the transaction, which may be useful for you to keep in the database. UDF1-UDF5 fields are for this purpose only. It's completely for your usage and you can post any string value in this parameter. udf1-udf5 are optional parameters and you may use them only if needed.
- 9.**udf2** : Optional parameter. Data type should be String. User defined field 2 – User Defined field.
- 10.**udf3** : Optional parameter. Data type should be String. User defined field 3 – User Defined field.
- 11.**udf4** : Optional parameter. Data type should be String. User defined field 4 – User Defined field.
- 12.**udf5** : Optional parameter. Data type should be String. User defined field 5 – User Defined field.
- 13.**address1** : This parameter is an optional parameter that can be used to pass the address. Data type should be String. **Allowed characters** : Alpha-numeric characters, comma, space, dot(period).
- 14.**address2** : This parameter is an optional parameter that can be used to pass the address. Data type should be String. **Allowed characters** : Alpha-numeric-characters, comma, space, dot(period).
- 15.**city** : This parameter is an optional parameter that can be used to pass the city of customer. Data type should be String.

16.state : This parameter is an optional parameter that can be used to pass the state of customer. Data type should be String.

17.country : This parameter is an optional parameter that can be used to pass the country of customer. Data type should be String.

18.zipcode : This parameter is an optional parameter that can be used to pass the zipcode of customer. Data type should be String.

20.hash : Mandatory parameter. Data type should be String. Hash generation details are given below.

21.unique_id: Mandatory parameter. This is customer's unique id.

23.pay_mode : Mandatory parameter. Data type should be String. This parameter is to specify the integration of test sdk kit or live sdk kit. Its value can be either "**test**" or "**production**".

Note : If value of **pay_mode** is "**test**" then you must use test key and salt. If value of **pay_mode** is "**production**" then you must use production key and salt.

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|udf1|udf2|udf3|udf4|udf5|||||salt|key

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

5. Handling the response of the payment process.

The transaction is initiated using `startActivityForResult()` method, your app must override the `onActivityResult()` method of Activity class. This method will receive the status and response of the transaction.

Syntax of the `onActivityResult()` as follows :

protected void onActivityResult(int requestCode, int resultCode, Intent data) { }.

Here the Parameter data of type Intent receives the result and response of the payment process.

Merchant App can get the result as follows :

```
String result = data.getStringExtra("result");
```

This result indicates the status of transaction as success or failed the detailed code is described below.

The **result** can be ,

1. "payment_successfull"
2. "payment_failed"
3. "txn_session_timeout"
4. "back_pressed"
5. "user_cancelled"
6. "error_server_error"
7. "error_noretry"
8. "invalid_input_data"
9. "Retry_fail_error"
10. "txn_not_allowed"

Your app can get the detailed response as follows :

```
String response = data.getStringExtra("payment_response");
```

This response is a json string and can be parsed to get the details about the ongoing transaction.

Success Response :

```
{
  txnid : '1001',
  firstname : 'John Doe',
  email : 'johndoe@gmail.com',
  phone : '7767819428',
  key : 'DF3252FDSF',
  mode : 'DC',
  status : 'success',
  unmappedstatus : 'failed',
```

```
cardCategory : 'domestic',
addedon : '2016-07-22 17:17:08',
payment_source : 'Easebuzz',
PG_TYPE : 'SBIPG',
bank_ref_num : "",
bankcode : 'MAST',
error : 'E600',
error_msg : 'Bank denied transaction on card.',
name_on_card : 'John',
cardnum : '519620XXXXXX7840',
issuing_bank : "",
card_type : "",
easepayid : 'H5T2RYZKW',
amount : '100.00',
net_amount_debit : '100.00',
cash_back_percentage : '50',
deduction_percentage : '2.50',
productinfo : 'Tshirt',
udf10 : "",
udf9 : "",
udf8 : "",
udf7 : "",
udf6 : "",
udf5 : "",
udf4 : "",
udf3 : "",
udf2 : "",
udf1 : "",
hash :
'ce2d0588f8648c62db86475d343d3433d00b87827502c676a093730f04cec5fea2eb0e8bb4f47fcdea955f61b674171f1
93c883686d2da42300d00e921a217c3'
}
```

Failed Response :

```
{
  txnid : '1001',
  firstname : 'John Doe',
  email : 'johndoe@gmail.com',
  phone : '7767819428',
  key : 'DF3252FDSF',
  mode : 'DC',
  status : 'failure',
  unmappedstatus : 'failed',
  cardCategory : 'domestic',
  addedon : '2016-07-22 17:17:08',
  payment_source : 'Easebuzz',
  PG_TYPE : 'SBIPG',
  bank_ref_num : "",
  bankcode : 'MAST',
  error : 'E600',
  error_msg : 'Bank denied transaction on card.',
  name_on_card : 'John',
  cardnum : '519620XXXXXX7840',
  issuing_bank : "",
  card_type : "",
  easepayid : 'H5T2RYZKW',
  amount : '100.00',
  net_amount_debit : '100.00',
  cash_back_percentage : '50',
  deduction_percentage : '2.50',
  productinfo : 'Tshirt',
  udf10 : "",
  udf9 : "",
  udf8 : "",
  udf7 : "",
  udf6 : "",
  udf5 : "",
  udf4 : "",
  udf3 : "",
  udf2 : "",
  udf1 : "",
  hash :
'ce2d0588f8648c62db86475d343d3433d00b87827502c676a093730f04cec5fea2eb0e8bb4f47fcdea955f61b674171f1
93c883686d2da42300d00e921a217c3'
}
```


OnActivityResult() Detailed code and description.

Note : Handle the response only when the parameter '**Intent data**' is not null in onActivityResult() method.

@Override

```
protected void onActivityResult(int requestCode, int resultCode, Intent data) {  
    if(data != null) {
```

```
        if (requestCode == PWESaticDataModel.PWE_REQUEST_CODE)  
        {  
  
            try {  
                String result = data.getStringExtra("result");  
                String payment_response = data.getStringExtra("payment_response");  
                if (result.contains(PWESaticDataModel.TXN_SUCCESS_CODE)) {  
                    //PWESaticDataModel.TXN_SUCCESS_CODE is a string constant and its value is "payment_successfull"  
                    //Code here will execute if the payment transaction completed successfully.  
                    // here merchant can show the payment success message.  
  
                } else if(result.contains(PWESaticDataModel.TXN_TIMEOUT_CODE)) {  
                    //PWESaticDataModel.TXN_TIMEOUT_CODE is a string constant and its value is "txn_session_timeout"  
                    //Code here will execute if the payment transaction failed because of the transaction time out.  
                    // here merchant can show the payment failed message.  
                }  
                else if(result.contains(PWESaticDataModel.TXN_BACKPRESSED_CODE)) {  
                    //PWESaticDataModel.TXN_BACKPRESSED_CODE is a string constant and its value is "back_pressed"  
                    //Code here will execute if the user pressed the back button on coupons Activity.  
                    // here merchant can show the payment failed message.  
                }  
                else if(result.contains(PWESaticDataModel.TXN_USERCANCELLED_CODE)) {  
                    //PWESaticDataModel.TXN_USERCANCELLED_CODE is a string constant and its value is "user_cancelled"  
                    //Code here will execute if the the user pressed the cancel button during the payment process.  
                    // here merchant can show the payment failed message.  
                } else if(result.contains(PWESaticDataModel.TXN_ERROR_SERVER_ERROR_CODE)) {  
                    //PWESaticDataModel.TXN_ERROR_SERVER_ERROR_CODE is a string constant and its value  
                    is "error_server_error"  
                    //Code here will execute if the server side error ocured during payment process.  
                    // here merchant can show the payment failed message.  
                } else if(result.contains(PWESaticDataModel.TXN_ERROR_TXN_NOT_ALLOWED_CODE))  
                {  
                    //PWESaticDataModel.TXN_ERROR_TXN_NOT_ALLOWED_CODE is a string constant and its value is  
                    "txn_not_allowed"  
                    //Code here will execute if the the transaction is not allowed.  
                    // here merchant can show the payment failed message.  
                } else if(result.contains(PWESaticDataModel.TXN_BANK_BACK_PRESSED_CODE))  
                {  
                    //PWESaticDataModel.TXN_BANK_BACK_PRESSED_CODE is a string constant and its value is  
                    "bank_back_pressed"  
                    //Code here will execute if the the customer press the back button on bank screen.  
                }  
            }  
        }  
    }  
}
```

```
        // here merchant can show the payment failed message.
    }

    else{
        // Here the value of result is "payment_failed" or "error_noretry" or "retry_fail_error"
        //Code here will execute if payment is failed some other reasons.
        // here merchant can show the payment failed message.
    }

    }catch (Exception e){
        //Handle exceptions here
    }

    }

}
```