

PayWithEaseBuzz Payment kit Integration (Xamarin):

- **Android Setup:**

1. Download and install EasebuzzAndroidBinding in your xamarin project.
2. Add binding library reference into reference section of android app
3. Install the following native android dependencies using Xamarin Package Manager Commands
(Package Manager console can be found in Tools->NuGet Package Manager -> Package Manager Console)

Execute the below commands on Package Manager Console

- *Install-Package Square.Retrofit2 -Version 2.4.0.1*
 - *Install-Package Square.OkHttp -Version 2.4.0*
 - *Install-Package Square.OkHttp.UrlConnection -Version 2.7.5.1*
 - *Install-Package Square.Retrofit2.ConverterGson -Version 2.4.0.1*
4. Add below permission in AndroidManifest.xml
<uses-permission android:name="android.permission.INTERNET" />

- **Xamarin Code :**

1. Create an Interface as below in your App.

```
public interface PWEInterface
{
    void processEasebuzzPayment(Dictionary<string,string> customerData);
}
```

2. Write the below cs code in your checkout file (On click of pay button)

2.1 Write below code to start payment -

```
var customerdata = new Dictionary<string, string>() {
    { "txnId", merchant_txnId },
    { "amount", merchant_payment_amount },
    { "productinfo", merchant_productInfo },
    { "firstname", customer_firstName },
    { "email", customer_email_id },
    { "phone", customer_phone },
    { "key", merchant_key },
    { "udf1", merchant_udf1 },
    { "udf2", merchant_udf2 },
    { "udf3", merchant_udf3 },
```

```

        { "udf4", merchant_udf4 },
        { "udf5", merchant_udf5 },
        { "address1", customer_address1 },
        { "address2", customer_address2 },
        { "city", customer_city },
        { "state", customer_state },
        { "country", customer_country },
        { "zipcode", customer_zipcode },
        { "hash", hash },
        { "unique_id", customer_unique_id },
        { "split_payments", Pass split json string } // Pass this parameter is split feature is enabled
        { "sub_merchant_id", sub_merchant_id }, // Pass this parameter is Sub-Aggregator feature is enabled
        { "pay_mode", payment_mode },
    };

```

```

DependencyService.Get<PWEInterface>().processEasebuzzPayment(customerdata);

```

2.2 Write the below method to handle payment response :

In the below method you will get the result as well as details about the ongoing transaction as follows

Get Result :

```

string result = paymentDictionary["result"];

```

Get transaction id ::

```

string txnid= paymentDictionary["txnid"];

```

```

public static void processPaymentResponse(Dictionary<string, string> paymentDictionary)
{
    foreach (var kvp in paymentDictionary)
    {
        string key = kvp.Key;
        string values = kvp.Value;
    }
}

```

App can get the result as follows :

- "payment_successful"
- "payment_failed"
- "txn_session_timeout"
- "back_pressed"
- "user_cancelled"
- "error_server_error"
- "error_noretry"
- "invalid_input_data"
- "retry_fail_error"
- "txn_not_allowed"
- "Bank_back_pressed"

- **Hash Generation :**

Hash is a mandatory parameter – used specifically to avoid any tampering during the transaction.

It is a sha512 encrypted string. 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 the above hash sequence and pass it as a hash parameter.

For detail description of hash generation process refer the below link

<https://docs.easebuzz.in/mobile-integration-android/hash-generation>

- **Android Code :**

1. Modify MainActivity.cs located in the android directory as below.

1.1 Implement Interface which you have declared before (Point 1 of xamarin code section)

1.2 Add below assembly level attribute tag above android namespace

Syntax - [assembly: Xamarin.Forms.Dependency(typeof(className))

For Example - [assembly: Xamarin.Forms.Dependency(typeof(MainActivity))

1.3 Import the below namespace

using Datamodels;

1.4 Implement method of interface which you have declared before

(Point 1 of xamarin code section) and write below code in it to start android payment

```
try
{
    var clsName = Java.Lang.Class.ForName("com.easebuzz.payment.kit.PWECouponsActivity");

    Intent intentProceed = new Intent(Android.App.Application.Context, clsName);

    foreach (var kvp in customerData) {
        string key = kvp.Key;
        string values = kvp.Value;

        if (key.Equals("amount")) {
            Double amount = Double.Parse(values);
            intentProceed.PutExtra(key, amount);
        }
        else {
            intentProceed.PutExtra(key, values);
        }
    }
    ((Activity)Forms.Context).StartActivityForResult(intentProceed, PWESStaticDataModel.PweRequestCode);
}
```

```

    }
    catch (Exception e)
    {
    }
}

```

1.5 Override OnActivityResult() method as below

You will get a payment response and result in OnActivityResult() method. This response is a json string so you have to parse the response and add into Dictionary<string, string> and pass a dictionary object to the processPaymentResponse() method for access response in xamarin code.

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

```

protected override void OnActivityResult(int requestCode, [GeneratedEnum] Result resultCode, Intent data)
{
    base.OnActivityResult(requestCode, resultCode, data);

    if (data != null)
    {
        if (requestCode == PWESharedDataModel.PweRequestCode)
        {
            var dictionary = new Dictionary<string, string>();
            dictionary.Add("result", data.GetStringExtra("result"));

            JSONObject jsonObject = new JSONObject(data.GetStringExtra("payment_response"));

            for (int i = 0; i < jsonObject.Names().Length(); i++)
            {
                dictionary.Add(jsonObject.Names().GetString(i),
                jsonObject.Get(jsonObject.Names().GetString(i)).ToString());
            }

            MainPage.processPaymentResponse(dictionary);
        }
    }
}

```

- **Initiate Payment Parameter Description :**

The parameter description available on below link

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

- **Sample Detailed Response:**

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