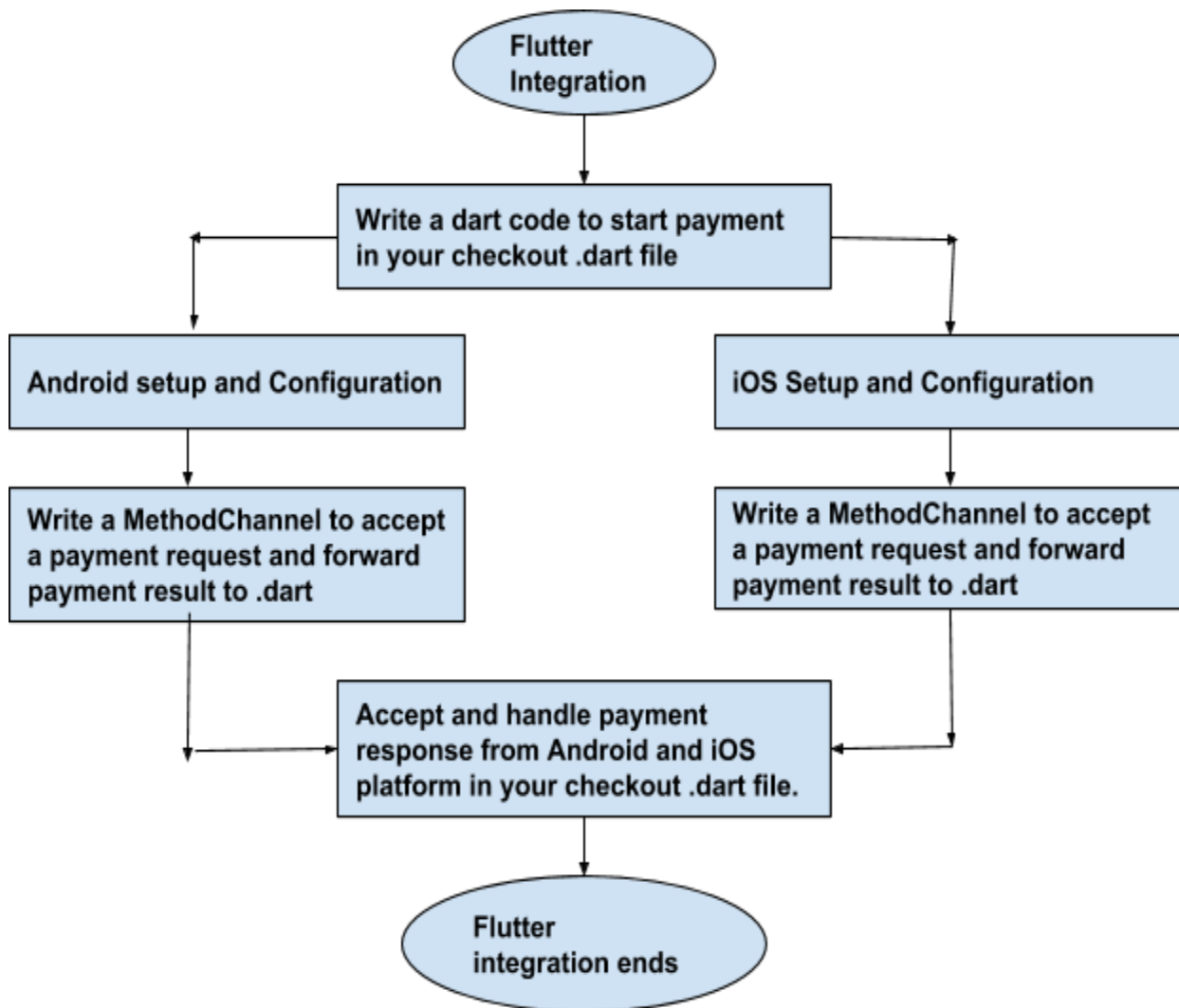


PayWithEaseBuzz Payment kit Integration (Flutter)



- **Dart Setup:**

1. Write the below **.dart** code in your checkout file (On click of pay button)

1.1: Write MethodChannel declaration as below.

```
static MethodChannel _channel = MethodChannel('easebuzz');
```

1.2: Write below code to start payment.

```
async {  
    String txnid = "abcd";  
    String amount = "2.0";  
    String productinfo= "test info";  
    String firstname= "test user";  
    String email = "testing@gamil.com";  
    String phone = "1234567890";  
    String txn_s_url = "";  
    String txn_f_url = "";  
    String key = "XXXXXXXXXX";  
    String udf1 = "";  
    String udf2 = "";  
    String udf3 = "";  
    String udf4 = "";  
    String udf5 = "";  
    String address1="test address one";  
    String address2="test address two";  
    String city="";  
    String state="";  
    String country="";  
    String zipcode="";  
    String salt="XXXXXXXXXX";  
    String pay_mode="production";  
    String unique_id="11345";  
    Object parameters = {"txnid":txnid,"amount":amount, "productinfo":productinfo,  
        "firstname":firstname,"email":email,"phone":phone,"txn_s_url":txn_s_url,  
        "txn_f_url":txn_f_url,"key":key,"udf1":udf1,"udf2":udf2,"udf3":udf3,  
        "udf4":udf4,"udf5":udf5,"udf6":udf6,"udf7":udf7,  
        "udf8":udf8,"udf9":udf9,"udf10":udf10,"address1":address1,  
        "address2":address2,"city":city,"state":state,"country":country,  
        "Zipcode":zipcode,"salt":salt,"pay_mode":pay_mode,"unique_id":unique_id};  
    final payment_response = await _channel.invokeMethod("payWithEasebuzz", parameters)  
}  
  
// payment_response is the HashMap contains the result of payment.
```

- **Android Setup:**

1. Copy **peb-lib.aar** file into android/app/libs/ folder of your flutter application.
2. Proguard Rules configurations:
Add below line to your proguard rules.

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

3. 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

- 1.compile(name: 'peb-lib', ext: 'aar')
2. compile 'com.android.support:appcompat-v7:28.0.0'
3. compile 'com.android.support:design:28.0.0'
5. compile 'com.android.support:cardview-v7:28.0.0'
6. compile 'com.android.support:recyclerview-v7:28.0.0'
7. compile 'com.squareup.picasso:picasso:2.71828'
8. compile 'com.squareup.okhttp:okhttp:2.4.0'
9. compile 'com.squareup.okhttp:okhttp-urlconnection:2.2.0'
10. compile 'com.squareup.retrofit2:retrofit:2.3.0'
11. compile 'com.squareup.retrofit2:converter-gson:2.3.0'

3. Add **JsonConverter.java** in the directory where MainActivity.java is located in android directory.
4. Modify your MainActivity.java located in the android directory as below.
4.1. Declare the below variables.

```
private static final String CHANNEL = "easebuzz";
```

```
MethodChannel.Result channel_result;
private boolean start_payment = true;
```

4.2. Write bellow code and Set the MethodChannel handler in onCreate() of MainActivity.java as below.

```
start_payment = true;
new MethodChannel(getFlutterView(), CHANNEL).setMethodCallHandler(
    new MethodChannel.MethodCallHandler() {
        @Override
        public void onMethodCall(MethodCall call, MethodChannel.Result result) {
            channel_result = result;
            if(call.method.equals("payWithEasebuzz"))
            {
                if(start_payment)
                {
                    start_payment=false;
                    startPayment(call.arguments);
                }
            }
        }
    });
```

4.2. Define startPayment() method which is called in above onCreate method()

```
private void startPayment(Object arguments) {
    try {
        Gson gson = new Gson();
        JSONObject parameters = new JSONObject(gson.toJson(arguments));
        Intent intentProceed = new Intent(getBaseContext(), PWECouponsActivity.class);
        float amount = Float.parseFloat(parameters.getString("amount"));
        intentProceed.putExtra("trxn_id",parameters.getString("txnid"));
        intentProceed.putExtra("trxn_amount",amount);
        intentProceed.putExtra("trxn_prod_info",parameters.getString("productinfo"));
        intentProceed.putExtra("trxn_firstname",parameters.getString("firstname"));
        intentProceed.putExtra("trxn_email_id",parameters.getString("email"));
        intentProceed.putExtra("trxn_phone",parameters.getString("phone"));
        intentProceed.putExtra("trxn_s_url",parameters.getString("trxn_s_url"));
        intentProceed.putExtra("trxn_f_url",parameters.getString("trxn_f_url"));
        intentProceed.putExtra("trxn_key",parameters.getString("key"));
        intentProceed.putExtra("trxn_udf1",parameters.getString("udf1"));
        intentProceed.putExtra("trxn_udf2",parameters.getString("udf2"));
        intentProceed.putExtra("trxn_udf3",parameters.getString("udf3"));
        intentProceed.putExtra("trxn_udf4",parameters.getString("udf4"));
        intentProceed.putExtra("trxn_udf5",parameters.getString("udf5"));
        intentProceed.putExtra("trxn_address1",parameters.getString("address1"));
        intentProceed.putExtra("trxn_address2",parameters.getString("address2"));
        intentProceed.putExtra("trxn_city",parameters.getString("city"));
        intentProceed.putExtra("trxn_state",parameters.getString("state"));
        intentProceed.putExtra("trxn_country",parameters.getString("country"));
        intentProceed.putExtra("trxn_zipcode",parameters.getString("zipcode"));
        intentProceed.putExtra("trxn_salt",parameters.getString("salt"));
        intentProceed.putExtra("pay_mode",parameters.getString("pay_mode"));
        intentProceed.putExtra("unique_id",parameters.getString("unique_id"));
        startActivityForResult(intentProceed, StaticDataModel.PWE_REQUEST_CODE);
    }catch (Exception e) {
        start_payment = true;
        Map<String, Object> error_map = new HashMap<>();
        Map<String, Object> error_desc_map = new HashMap<>();
        String error_desc = "exception occurred:"+e.getMessage();
        error_desc_map.put("error","Exception");
        error_desc_map.put("error_msg",error_desc);
        error_map.put("result",StaticDataModel.TXN_FAILED_CODE);
        error_map.put("payment_response",error_desc_map);
        channel_result.success(error_map);
    }
}
```

```
}
```

4.3. Write below code to catch payment result and forward to the flutter.

```
@Override
protected void onActivityResult(int requestCode, int resultCode, Intent data) {
    start_payment=true;
    JSONObject response = new JSONObject();
    Map<String, Object> error_map = new HashMap<>();
    if(data != null ) {
        String result = data.getStringExtra("result");
        String payment_response = data.getStringExtra("payment_response");

        try {
            JSONObject obj = new JSONObject(payment_response);
            response.put("result", result);
            response.put("payment_response", obj);
            channel_result.success(JsonConverter.convertToMap(response));
            channel_result.success(response);
        }catch (Exception e){

            Map<String, Object> error_desc_map = new HashMap<>();
            error_desc_map.put("error",result);
            error_desc_map.put("error_msg",payment_response);
            error_map.put("result",result);
            error_map.put("payment_response",error_desc_map);
            channel_result.success(error_map);
        }

    }else{
        Map<String, Object> error_desc_map = new HashMap<>();
        String error_desc = "Empty payment response";
        error_desc_map.put("error","Empty error");
        error_desc_map.put("error_msg",error_desc);
        error_map.put("result","payment_failed");
        error_map.put("payment_response",error_desc_map);
        channel_result.success(error_map);
    }
}
```

5. And your Android Setup is done.

•

The PaywithEaseBuzz iOS SDK is compatible with apps supporting iOS 9 and above. And requires Xcode 9 to build from source.

- Copy easebuzz.framework of your application in embedded binaries.
- Press + and add framework using 'Add other' button.
- Browse framework: file from your folder and select 'copy items if needed'.
- Set Always embed swift standard libraries to YES from project build settings

ALWAYS_EMBED_SWIFT_STANDARD_LIBRARIES = YES

- e. To simply disable ATS, you can follow this steps by open Info.plist, and add the following lines:

```
<key>NSAppTransportSecurity</key>
<dict> <key>NSAllowsArbitraryLoads</key>
      <true/>
</dict>
```

➤ **Initiate Payment Request**

1. Import Easebuzz module in your AppDelegate/ ViewController
2. Set Delegate to your AppDelegate/ ViewController as PayWithEasebuzzCallback and Confirm the delegate.
3. On click Pay button from your app, you need to call initiatePaymentAction method.

Refer below code for calling payment gateway.

SWIFT - copy below code and paste in AppDelegate.swift file
Please do not change Flutter method channel name and flutter method call name.

```
import UIKit
import Flutter
import Easebuzz

@UIApplicationMain
@objc class AppDelegate: FlutterAppDelegate, PayWithEasebuzzCallback {
    var payResult: FlutterResult!
    override func application(
        _ application: UIApplication,
        didFinishLaunchingWithOptions launchOptions: [UIApplicationLaunchOptionsKey: Any]?
    ) -> Bool {
        self.initializeFlutterChannelMethod()
        return super.application(application, didFinishLaunchingWithOptions: launchOptions)
    }
    // Initialise flutter channel
    func initializeFlutterChannelMethod() {
        GeneratedPluginRegistrant.register(with: self)
        guard let controller = window?.rootViewController as? FlutterViewController else {
            fatalError("rootViewController is not type FlutterViewController")
        }

        let methodChannel = FlutterMethodChannel(name: "easebuzz",
            binaryMessenger: controller)
```

```

methodChannel.setMethodCallHandler({
  [weak self] (call: FlutterMethodCall, result: @escaping FlutterResult) -> Void in
    guard call.method == "payWithEasebuzz" else {
      result(FlutterMethodNotImplemented)
      return
    }
    self?.payResult = result;
    self?.initiatePaymentAction(call: call);
  })
}

// Initiate payment action and call payment gateway
func initiatePaymentAction(call:FlutterMethodCall) {
  if let orderDetails = call.arguments as? [String:String]{
    let payment = Payment.init(customerData: orderDetails)
    let paymentValid = payment.isValid().validity
    if !paymentValid {
      print("Invalid records")
    } else{
      PayWithEasebuzz.setUp(pebCallback: self )
      PayWithEasebuzz.invokePaymentOptionsView(paymentObj: payment, isFrom: self)
    }
  }else{
    // handle error
    let dict = self.setErrorResponseDictError("Empty error", errorMessage: "Invalid
validation", result: "Invalid request")
    self.payResult(dict)
  }
}

// payment call callback and handle response
func PEBCallback(data: [String : AnyObject]) {
  if data.count > 0 {
    self.payResult(data)
  }else{
    let dict = self.setErrorResponseDictError("Empty error", errorMessage: "Empty payment
response", result: "payment_failed")
    self.payResult(dict)
  }
}

// Create error response dictionary that the time of something went wrong
func setErrorResponseDictError(_ error: String?, errorMessage: String?, result: String?) ->
[AnyHashable : Any]? {
  var dict: [AnyHashable : Any] = [:]
  var dictChild: [AnyHashable : Any] = [:]
  dictChild["error"] = "\(error ?? "")"
  dictChild["error_msg"] = "\(errorMessage ?? "")"
  dict["result"] = "\(result ?? "")"
  dict["payment_response"] = dictChild
  return dict
}
}

```

Objective C - copy below code and paste in AppDelegate.m file

```
#include "AppDelegate.h"
#include "GeneratedPluginRegistrant.h"
#import <Flutter/Flutter.h>

@implementation AppDelegate
- (BOOL)application:(UIApplication *)application
didFinishLaunchingWithOptions:(NSDictionary *)launchOptions {
    [self initialisePaywithEasebuzz];
    return [super application:application didFinishLaunchingWithOptions:launchOptions];
}

// Initiate method
-(void)initialisePaywithEasebuzz{
    [GeneratedPluginRegistrant registerWithRegistry:self];
    FlutterViewController* controller =
    (FlutterViewController*)self.window.rootViewController;
    FlutterMethodChannel* methodChannel = [FlutterMethodChannel
                                           methodChannelWithName:@"easebuzz"
                                           binaryMessenger:controller];

    __weak typeof(self) weakSelf = self;
    [methodChannel setMethodCallHandler:^(FlutterMethodCall* call,
                                           FlutterResult result) {
        NSLog(@"call kit = %@",call.method);
        self.payResult = result;
        if ([@"payWithEasebuzz" isEqualToString:call.method]) {
            [weakSelf initiatePaymentAction:call];
        } else {
            result(FlutterMethodNotImplemented);
        }
    }
    ];
}

// Initialize payment gateway
-(void)initiatePaymentAction:(FlutterMethodCall*)call {
    NSDictionary *orderDetails1 = [NSDictionary dictionaryWithDictionary:call.arguments];
    NSLog(@"%@",orderDetails1);
    self.payment = [[Payment alloc] initWithCustomerData:orderDetails1];
    BOOL paymentValid = _payment.isValid;
    if (!paymentValid) {
        NSDictionary *dict = [self setErrorResponseDictError:@"Empty error" errorMessage:@"Invalid
validation" result:@"Invalid request"];
        if (dict != nil) {
            self.payResult(dict);
        }
    } else {
        [PayWithEasebuzz setUpWithPebCallback:self];
        [PayWithEasebuzz invokePaymentOptionsViewWithPaymentObj:_payment isFrom:self];
    }
}

// Call back delegate from the paywitheasebuzz gateway
- (void)PEBCallbackWithData:(NSDictionary<NSString *,id> * _Nonnull)data {
    @try {
        if (data != nil) {
            self.payResult(data);
        } else {
            NSDictionary *dict = [self setErrorResponseDictError:@"Empty error" errorMessage:@"Empty
payment response" result:@"payment_failed"];
            if (dict != nil) {
                self.payResult(dict);
            }
        }
    }
}
```



```

    }
    @catch (NSException *exception) {
        NSString *str = [NSString stringWithFormat:@"exception occured:%@",exception.reason];
        NSDictionary *dict = [self setErrorResponseDictError:@"Exception" errorMessage:str
result:@"payment_failed"];
        if (dict != nil) {
            self.payResult(dict);
        }
    }
    @finally {
    }
}

// Create error response dictionary that the time of something went wrong
-(NSDictionary *)setErrorResponseDictError:(NSString *)error errorMessage:(NSString*)errorMessage
result:(NSString*)result{
    NSMutableDictionary *dict = [[NSMutableDictionary alloc] init];
    NSMutableDictionary *dictChild = [[NSMutableDictionary alloc] init];
    dictChild[@"error"] = [NSString stringWithFormat:@"%@",error];
    dictChild[@"error_msg"] = [NSString stringWithFormat:@"%@",errorMessage];
    dict[@"result"] = [NSString stringWithFormat:@"%@",result];
    dict[@"payment_response"] = dictChild;
    return dict;
}
@end

```

Remove unused architectures -

1. Easebuzz is custom universal framework and for in on production, we need to remove unused architectures. Because Apple doesn't allow the application with unused architectures to the App Store.
 2. Select the Project, Choose Target → Project Name → Select Build Phases → Press "+" → New Run Script Phase → Name the Script as "Run Script".
 3. Always this script should be placed below "Embed Frameworks".
 4. Always build the project for both simulator and generic device build before start the archives.
-
5. Run the below script to remove the unused simulator architectures at the time of pushing the App to App Store.

```
APP_PATH="${TARGET_BUILD_DIR}/${WRAPPER_NAME}"

# This script loops through the frameworks embedded in the application and
# removes unused architectures.
find "$APP_PATH" -name 'Easebuzz.framework' -type d | while read -r FRAMEWORK
do
    FRAMEWORK_EXECUTABLE_NAME=$(defaults read "$FRAMEWORK/Info.plist" CFBundleExecutable)
    FRAMEWORK_EXECUTABLE_PATH="$FRAMEWORK/$FRAMEWORK_EXECUTABLE_NAME"
    echo "Executable is $FRAMEWORK_EXECUTABLE_PATH"

    EXTRACTED_ARCHS=()

    for ARCH in $ARCHS
    do
        echo "Extracting $ARCH from $FRAMEWORK_EXECUTABLE_NAME"
        lipo -extract "$ARCH" "$FRAMEWORK_EXECUTABLE_PATH" -o "$FRAMEWORK_EXECUTABLE_PATH-$ARCH"
        EXTRACTED_ARCHS+=("$FRAMEWORK_EXECUTABLE_PATH-$ARCH")
    done

    echo "Merging extracted architectures: ${ARCHS}"
    lipo -o "$FRAMEWORK_EXECUTABLE_PATH-merged" -create "${EXTRACTED_ARCHS[@]}"
    rm "${EXTRACTED_ARCHS[@]}"

    echo "Replacing original executable with thinned version"
    rm "$FRAMEWORK_EXECUTABLE_PATH"
    mv "$FRAMEWORK_EXECUTABLE_PATH-merged" "$FRAMEWORK_EXECUTABLE_PATH"

done
```