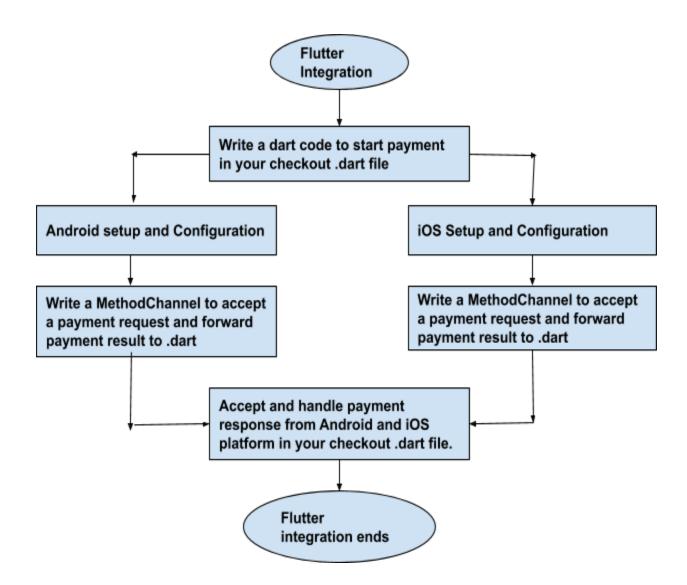
PayWithEaseBuzz Payment kit Integration (Flutter)



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 trxn s url = "";
      String trxn_f_url = "";
      String key = "XXXXXXXXXXXX";
      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, "trxn s url":trxn s url,
                       "trxn f url":trxn 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(qetBaseContext(), 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 occured:"+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) {
           if(requestCode==StaticDataModel.PWE REQUEST CODE)
                  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);
             }else
                  super.onActivityResult(requestCode, resultCode, data);
```

5. And your Android Setup is done.

iOS Setup :

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

- a. Copy easebuzz.framework of your application in embedded binaries.
- b. Press + and add framework using 'Add other' button.
- c. Browse framework: file from your folder and select 'copy items if needed'.
- d. 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:

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.

```
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({
            [\textit{weak self}] \ (\textit{call:} \ \textit{FlutterMethodCall, result:} \ \textit{Qescaping FlutterResult}) \ \ \textit{->} \ \textit{Void in}
            quard 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"] = " \setminus (result ?? "")"
        dict["payment_response"] = dictChild
        return dict
}
```

func initializeFlutterChannelMethod() {

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) initialise Paywith Easebuzz {
    [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);
        [PayWithEasebuzz setUpWithPebCallback:self];
        [PayWithEasebuzz invokePaymentOptionsViewWithPaymentObj: payment isFrom:self];
// Call back delegate from the paywitheasebuzz gateway
- (void) PEBCallbackWithData: (NSDictionary<NSString *,id> * Nonnull) data {
    @trv {
```

```
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];
                     \textit{NSDictionary *dict = [self setErrorResponseDictError: @"Exception" errorMessage:string a setErrorResponseDictError ("Exception" errorMessage:string a setError ("Exception" errorMessage:string a setError ("Exception" errorMessage:string a setError ("Exception" errorMessage:string a setError ("Exception" error (
result:@"payment failed"];
                     if (dict != nil) {
                                self.payResult(dict);
           @finally {
-(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];
          \label{eq:dictChild[0"error_msg"] = [NSString stringWithFormat: 0"%0", 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 \rightarrow Project Name \rightarrow Select Build Phases \rightarrow Press "+" \rightarrow New Run Script Phase \rightarrow 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 "$APP PATH" -name 'Easebuzz.framework' -type d | while read -r FRAMEWORK
FRAMEWORK EXECUTABLE NAME=$(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
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
```