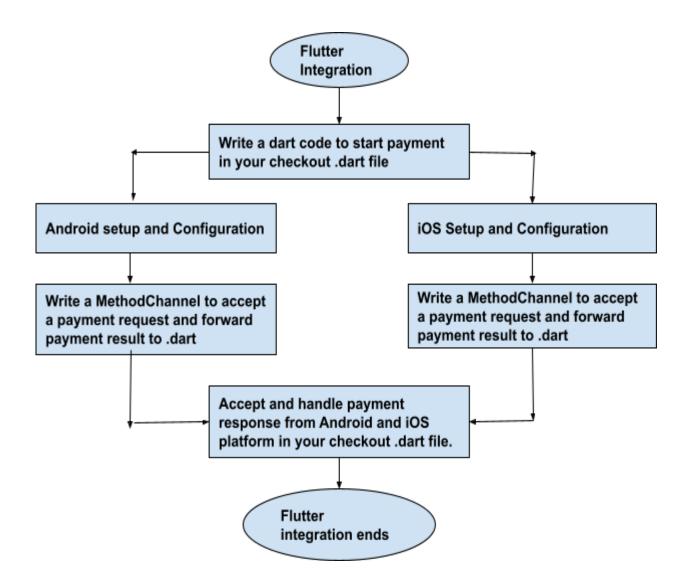
PayWithEaseBuzz Payment kit Integration (Flutter)



Initiate Payment: Generate access key using the Initiate Payment API at your backend.

(It is mandatory to integrate the Initiate Payment API at Backend only) Initiate Payment API Doc: https://docs.easebuzz.in/api/initiate-payment

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 access_key = "Access key generated by the initiate payment API";
         String pay_mode="production";
         Object parameters = {"access_key":access_key, "pay_mode":pay_mode };
         final payment_response = await _channel.invokeMethod("payWithEasebuzz", parameters)
    }
```

// payment_response is the HashMap containing 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.**{
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"

- 3. Add **JsonConverter.java** in the directory where MainActivity.java is located in the 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 below code and Set the MethodChannel handler in onCreate() of MainActivity.java as below.

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);
        intentProceed.setFlags(Intent.FLAG ACTIVITY REORDER TO FRONT);
        intentProceed.putExtra("access_key",parameters.getString("access_key"));
        intentProceed.putExtra("pay_mode",parameters.getString("pay_mode"));
        startActivityForResult(intentProceed, PWEStaticDataModel.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",PWEStaticDataModel.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(data != null)
             if(requestCode==PWEStaticDataModel.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);
                      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

- Import Easebuzz module in your AppDelegate/ ViewController
- 2. Set Delegate to your AppDelegate/ ViewController as PayWithEasebuzzCallback and Confirm the delegate.
- 3. On clicking the 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)
       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 ?? \text{""})"
    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 -

- Easebuzz is a 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.
- 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".
- 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.

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