Mobile SDK Specifications for iOS

(Version 4.0.3)

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1. Prerequisite

Please provide the information below to verify merchant identity from MOLPay Server in order to use the payment channel:

- merchant ID
- verifykey
- appname
- username
- password

All the values above are in one word without whitespace.
The information should be request from MOLPay support team and the email address is **support@molpay.com**

2. System Requirements

- Ready for iOS 7 and above
- Minimum iOS version 6 and above. Older version support can be provided on request for custom make
- iOS based devices that support iOS version 4.3

3. MOLPay iOS Payment Library

This section explains details about the library API, and it explains the instructions and example to be follow to develop an iOS apps that using mobile payment channel.

3.1 How the Library Works

The flow of the library as below:

1. Library is in framework form, grab it first and put it in the app (sec 2.2)
2. Initiate the library.
3. Merchant app to pass buyer's information to the SDK library and will be sent to MOLPay server;
4. After payment is completed, MOLPay will return the result for transaction id and payment status;
5. MOLPay SDK will delegate the result back to application.

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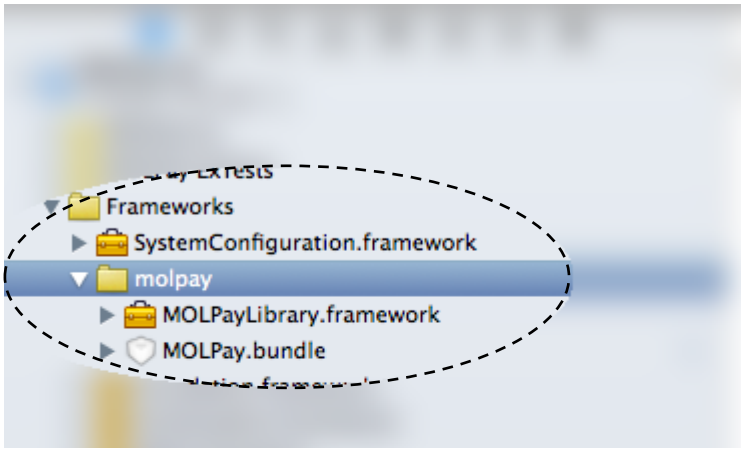
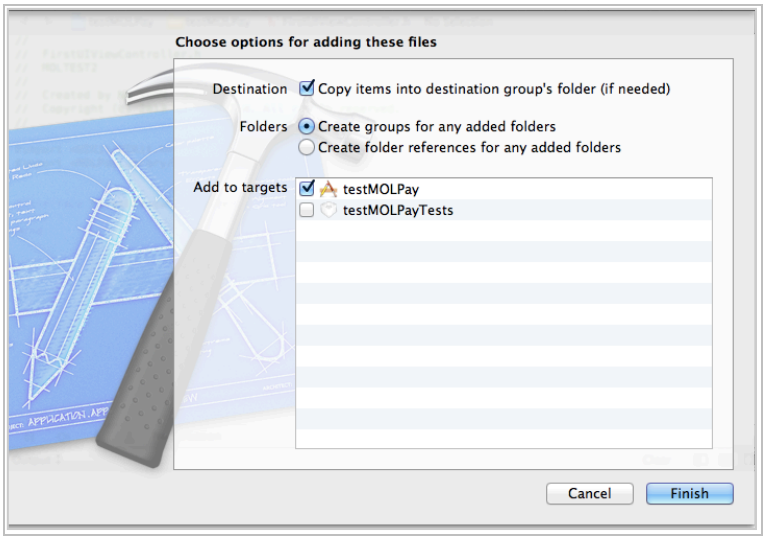
3.2 Adding the Library, Bundle & Importing Classes

- Drag and Drop MOLPayLibrary.framework and MOLPay.bundle to your workspace.



- Check the box "*Copy items into destination group's folder (if needed)*" then press, "*finish*" button on bottom right.



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3.3 Coding & Calling Required Methods

3.3.1 Payment and Delegate Result

- Header file (.h file)
  - Import framework to your header file

```
#import <MOLPayLibrary/MOLPayLib.h>
```

- Method file (.m file)
  - Add delegate at header file

```
@interface MOLPayViewController ()<MOLPayDelegate>
```

  - Pass payment details

```
  NSDictionary * paymentRequestDict =
@{
  mp_username: (Type: NSString),
  mp_password: (Type: NSString),

  mp_merchant_ID: (Type: NSString),
  mp_app_name: (Type: NSString),
  mp_verification_key: (Type: NSString),

 mp_order_ID: (Type: NSString),
  mp_amount:[NSString stringWithFormat:@"%.2f", (Type:CGFloat)],

  mp_currency: (Type: NSString),
  mp_country: (Type: NSString),
  mp_channel: (Type: NSString),

  mp_bill_name: (Type: NSString),
  mp_bill_email: (Type: NSString),
  mp_bill_mobile: (Type: NSString),
  mp_bill_description: (Type: NSString),

  mp_is_escrow:[NSNumber numberWithBool: (Type:BOOL)],

  mp_debug_mode:[NSNumber numberWithBool: (Type:BOOL)],
  mp_editing_enabled:[NSNumber numberWithBool: (Type:BOOL)],
  mp_navigation_bar_tint_color: (Type:UIColor)
 };
```

***Note**: For full list of channel value please refer last page of this document
****Note**: For debug mode, please disable before release the app
****Note:** Enable editing for name, email, mobile number & description.

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- Allocate class

```
MOLPayLib *molpay=[[MOLPayLib alloc] initWithTarget:self
andPaymentDetails:paymentRequestDict];
```

- Call function

```
[molpay loadMOLPaySDK];
```

- Delegate return result

```
#pragma mark – MOLPayLib Delegate
 –(void)paymentRequestSuccessWithPaymentDetails:(NSDictionary
*)paymentDetailsDict
{
    NSLog(@"paymentDetailsDict:%@",paymentDetailsDict);
}

–(void)paymentRequestFailedWithErrorDescription:(NSDictionary
*)errorDescription
{
    NSLog(@"errorDescription:%@",errorDescription);
}
```

***Note**: - Transaction_status = 00 (Success), 11 (Fail) & 22 (Pending).
- '*paymentDetailsDict' will included txn_ID, paydate, amount, status_code & msgtype.*

Field included in paymentDetailsDict:

txn_ID - Numeric (Integer)
paydate - Int
amount - Numeric (Float)
status_code - Numeric
channel - Alphanumeric
err_desc - String
app_code - Alphanumeric
msgType - Alphanumeric

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Example of paymentDetailsDict:

```
{
   "txn_ID":"0123456",
   "paydate":1411370328,
   "amount":"100.00",
   "status_code":"22",
   "msgType":"C6"
}
```

Example of errorDescription:

```
{
   "error_desc": "User exit the payment page",
   "status": @"exit"
}
```


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3.3.2 Request payment result

- Pass transaction details

❖ Request by transaction ID:

```
NSDictionary * request = @{
                            mp_transaction_id: (Type: NSString),
                            mp_merchant_ID(Type: NSString),
                            mp_amount(Type: NSString),
                            mp_verification_key(Type: NSString)
                          };

MOLPayLib * molpay = [[MOLPayLib alloc] initWithTarget:self
andPaymentDetails:nil];

[molpay requestPaymentResult: request];
```

❖ Request by order ID:

```
NSDictionary * request = @{
                            mp_order_ID: (Type: NSString),
                            mp_merchant_ID(Type: NSString),
                            mp_amount(Type: NSString),
                            mp_verification_key(Type: NSString)
                          };

MOLPayLib * molpay = [[MOLPayLib alloc] initWithTarget:self
andPaymentDetails:nil];

[molpay requestPaymentResult: request];
```

- Result delegate

```
#pragma mark - MOLPayLib Request Payment Delegate
-(void)resultRequestSuccessWithPaymentDetails:(NSDictionary *)
paymentDetailsDict
{
   NSLog(@"Success:%@",paymentDetailsDict);
}

-(void)resultRequestFailedWithErrorDescription:(NSDictionary
*)paymentDetailsDict
{
   NSLog(@"Failed :%@",paymentDetailsDict);
}
```


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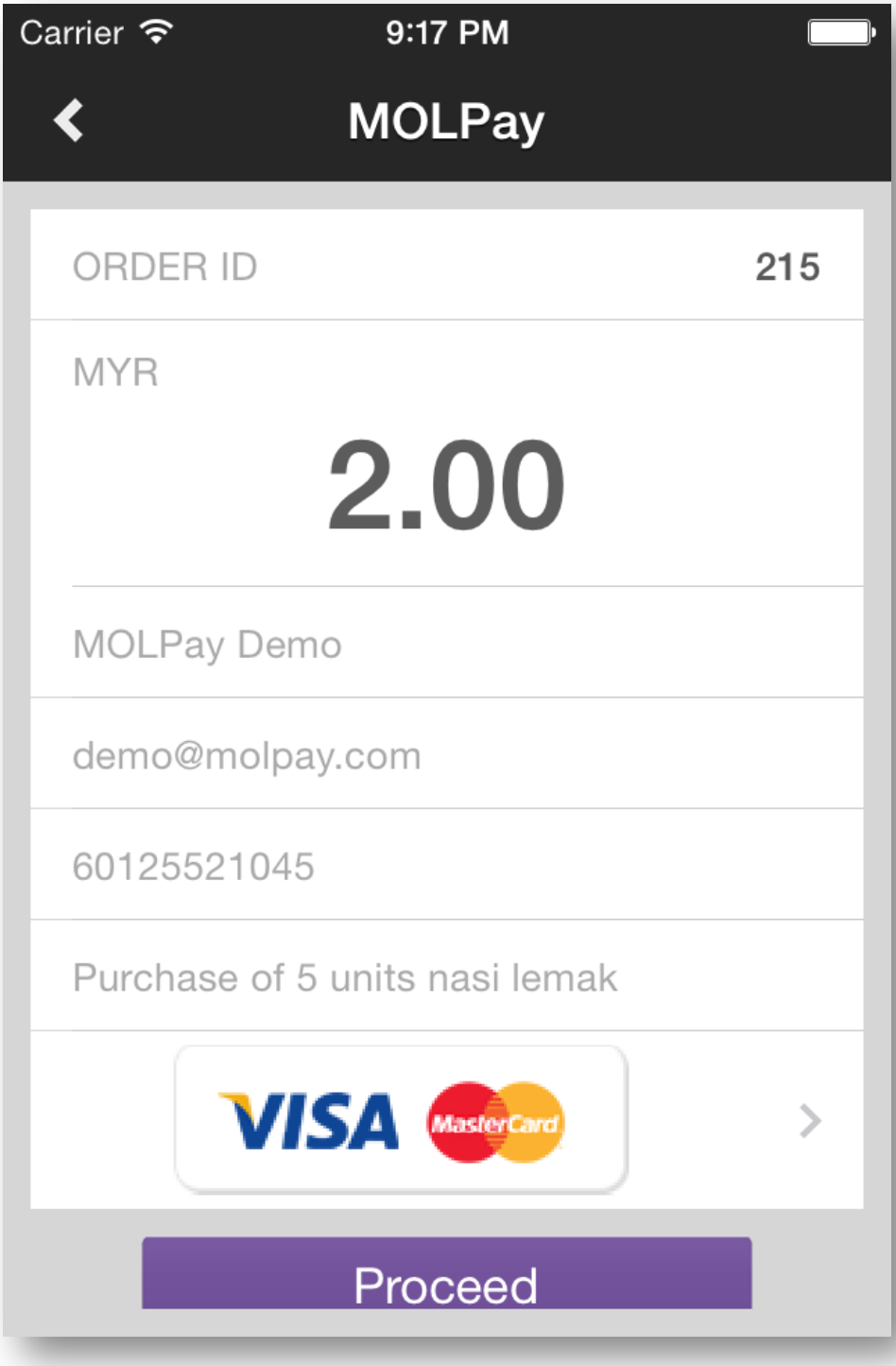
Order details



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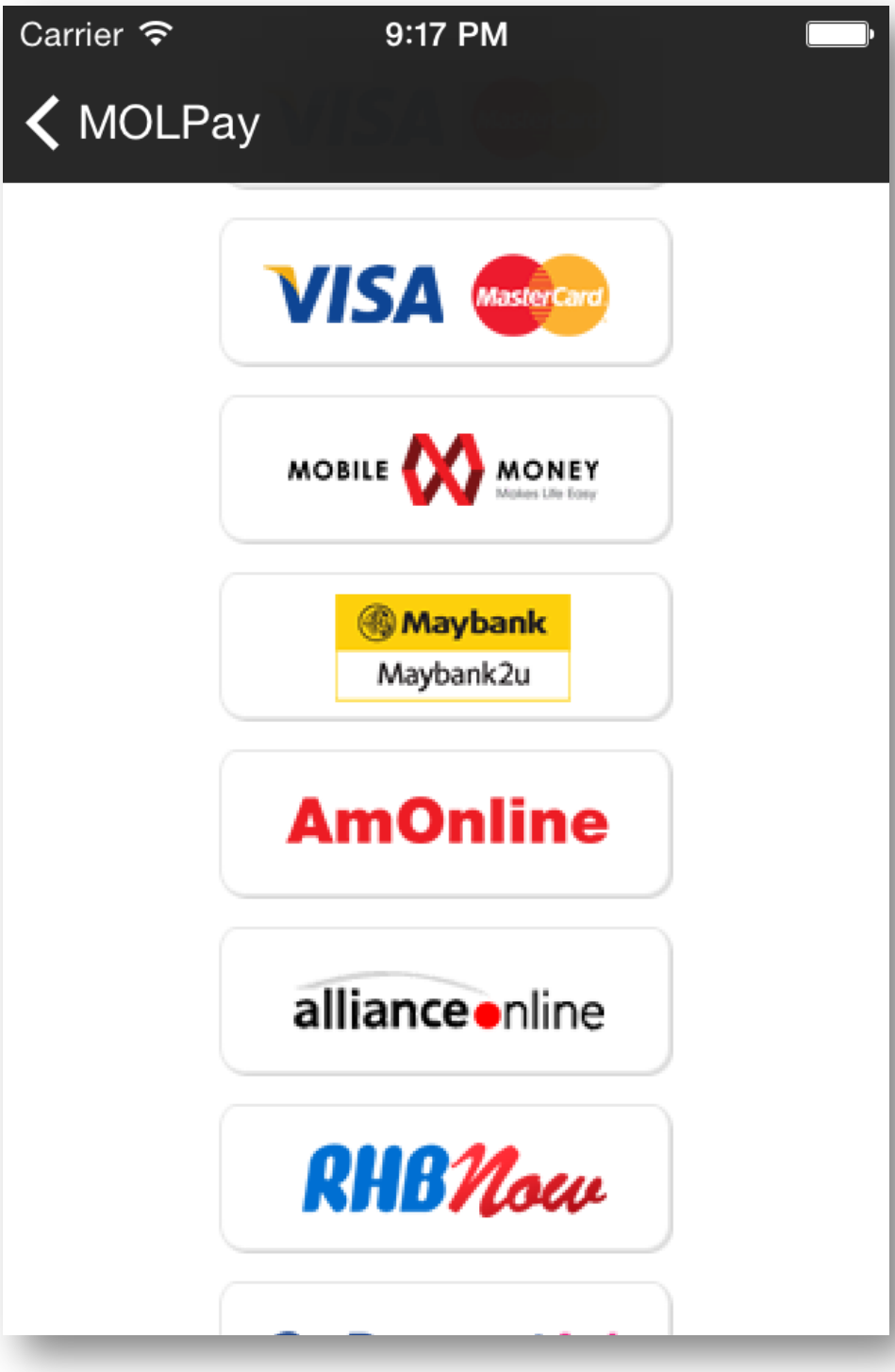
List of Channels



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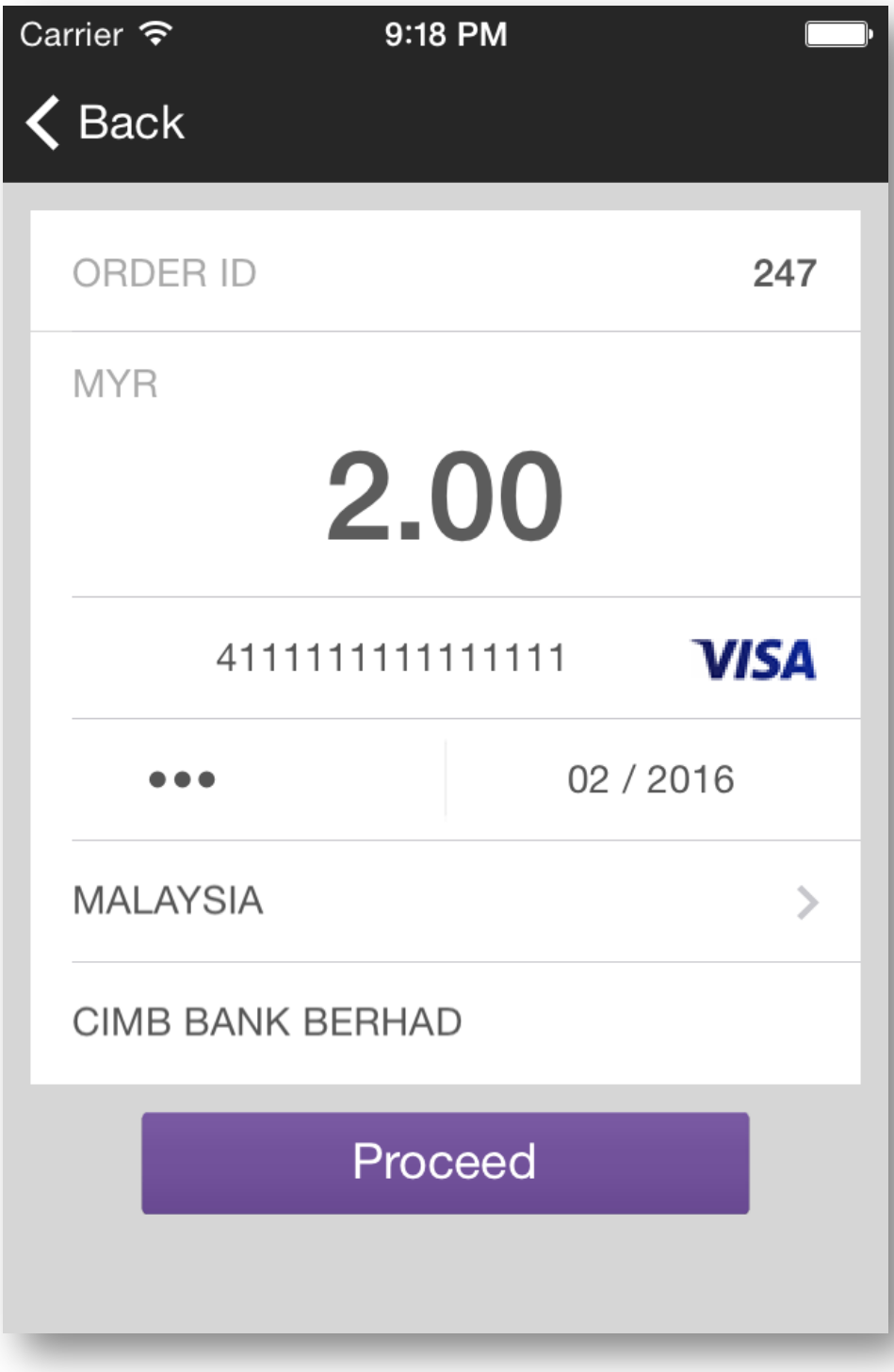
Credit / Debit card



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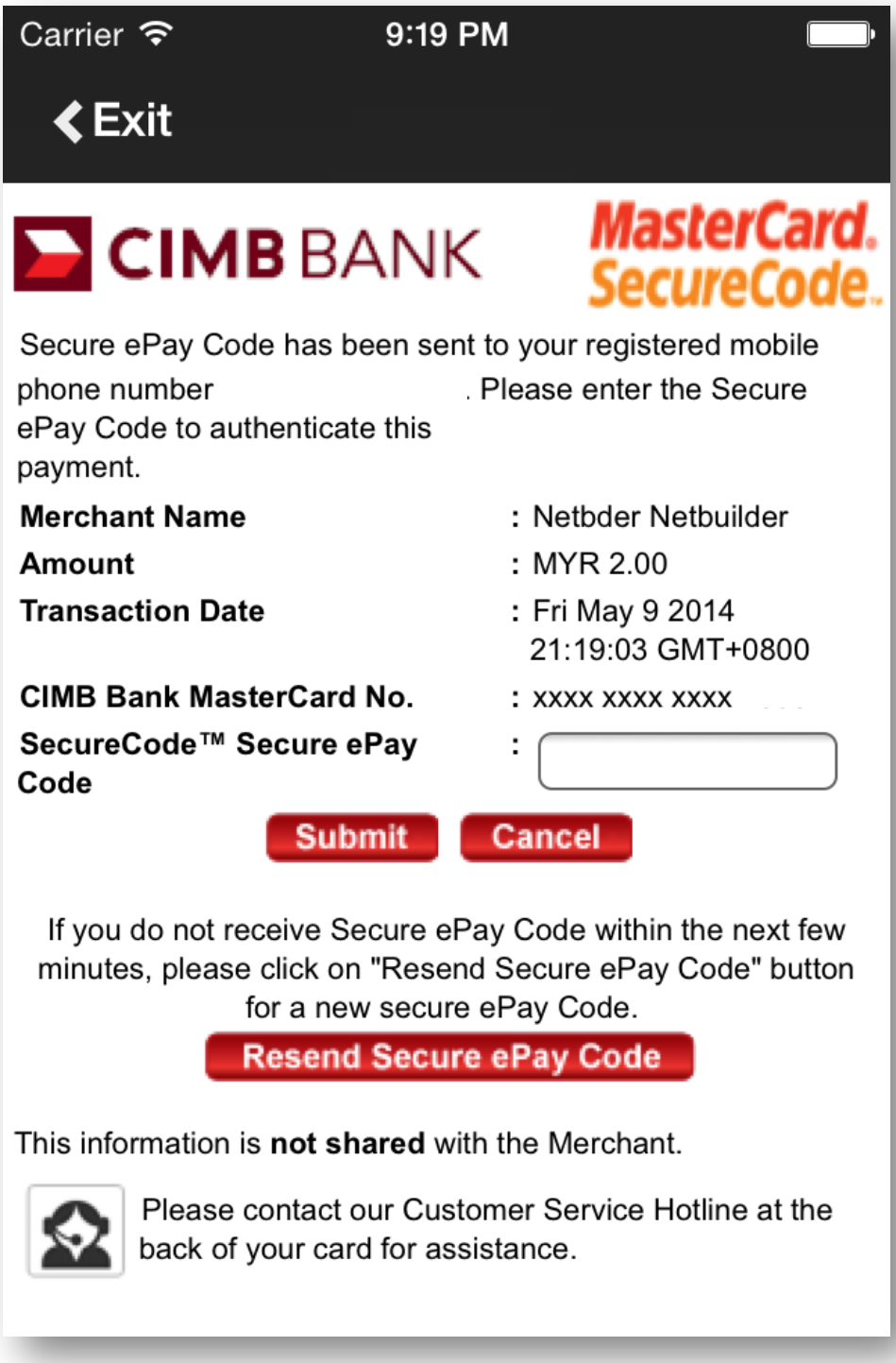
Payment Page



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List of Channels Code and Supported Currency Code

No	Channel Code	Channel Name	Currency Code
1.	**credit**	Visa / Mastercard	MYR
2.	**mobilemoney**	Mobile Money	MYR
3.	**maybank2u**	Maybank2u	MYR
4.	**amb**	AmOnline	MYR
5.	**alb**	Aliance Online	MYR
6.	**rhb**	RHB Now	MYR
7.	**paymentasia**	China Online Banking	MYR, RM, RMB and CNY
8.	**webcash**	WEBCASH	MYR
9.	**paypal**	PayPal	USD, AUD, GBP, CAD, CZK, DKK, EUR, HKD, HUF, ILS, JPY, MYR, MXN, NZD, NOK, PHP, PLN, SGD, SEK, CHF, TWD and THB
10.	**alipay**	Alipay	MYR, RM, USD, TWD and RMB
11.	**hlb**	Hong Leong Online	MYR
12.	**cimb**	CIMB Clicks	MYR
13.	**fpx**	MEPS FPX	MYR
14.	**dragonpay**	DragonPay	USD and PHP
15.	**enetsD**	eNets Debit	SGD
16.	**polipayment**	Poli Payment	MYR, RM and AUD
17.	**tenpay**	Tenpay	MYR, RM and USD
18.	**cash**	7-Eleven Cash Retail	MYR
19.	**esapay**	Esapay Cash Retail	MYR
20.	**singpost**	SingPost	SGD
21.	**multi**	List all channel	

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