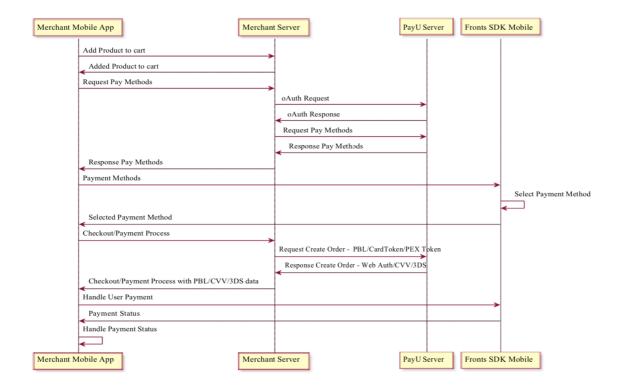
# Introduction

New PayU SDK Lite (aka: Fronts SDK Mobile) is younger brother of PayTouch SDK. PayTouch SDK is an library that is configured in one place and will handle full payment process for your products. This documentation targets iOS platform.

The whole process shopping looks like that:



PayU SDK Lite is created for more advanced merchants and consist of components that could be used almost independent:

### Core

- PUVisualStyle
- PUCardVisualStyle
- PUInputVisualStyle
- PUButtonVisualStyle
- PUVisualStyleElement

### About screen:

• PUAboutViewController

## WebPayments:

This module supports Pay By Links, 3DS and PEX (PayU Express) payments which require redirect user to web page to authorize this payment process. (module is implemented with iOS WKWebView): <a href="https://developer.apple.com/documentation/webkit/wkwebview">https://developer.apple.com/documentation/webkit/wkwebview</a>

- PUWebAuthorizationViewController
- PUWebAuthorizationBuilder

#### **CVVAuthoriation:**

- PUCVVAuthorizationHandler
- PUCVVAuthorizationResult

### PaymentMethods & PaymentWidget:

- PUPaymentMethodListViewController
- PUPaymentWidgetService

#### AddCard:

This module adding/removing card for user on PayU backend. Adding card means collect all required data from user and convert (with usage of PayU backend) to card token which can be used to trigger payment process

- PUAddCardService
- PUAddCardViewController

### **Technical details**

PayU SDK Lite is provieded as iOS Framework (fat/Universal - which can be used either on physical device or simulator). Due to compatibility reasons framework is written in Objective-C but without any changes can be integrated into Swift based app.

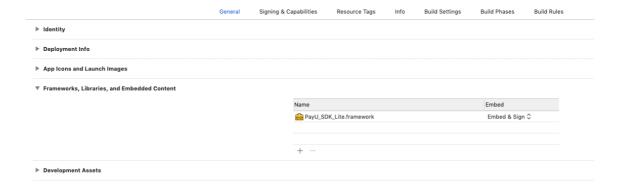
# Supported platforms and languages

With the PayU SDK Lite for iOS, you can build apps that target native devices running iOS 10.0 and later. Developing an application with the PayU SDK Lite for iOS requires at least Xcode 9.0. Supported languages: English, Polish, German, Czech, Hungarian

# Integration

To add the PayU Lite iOS SDK to your Xcode project you have to:

- extract downloaded package in your local file system
- add the PayU\_SDK\_Lite.framework to your Xcode project:
  - o click on your app target and choose the "General" tab
  - find the section called "Embedded Binaries", click the plus (+) sign, and then click the "Add Other" button
    - from the file dialog box, select the "PayU\_SDK\_Lite.framework" folder (ensure that the "Copy items if needed" and "Create folder reference" options are selected)
  - o click Finish
- ensure (see next image) that PayU\_SDK\_Lite.framework appears in the "Embedded Binaries" and the "Linked Frameworks and Libraries" sections



Note: this SDK version allows merchant to debug with XCode app during development process.

## Core

#### **PUVisualStyle**

Each module can be configured to utilize defined by merchants colors and other properties. PUVisualStyle objects are used to visually style PayU-SDK UI components.

```
@property (strong, nonatomic) UIColor *primaryBackgroundColor;
@property (strong, nonatomic) UIColor *accentColor; // primary accent color for module
@property (strong, nonatomic) UIColor *navigationBarTintColor; // value to set for
@property (strong, nonatomic) PUCardVisualStyle *cardVisualStyleEnabled; //
`cardVisualStyleEnabled` is used for `enabled` card-styled cells
(`PUPaymentMethodListViewController`, etc.)
@property (strong, nonatomic) PUCardVisualStyle *cardVisualStyleDisabled; //
`cardVisualStyleDisabled` is used for `disabled` card-styled cells
(`PUPaymentMethodListViewController`, etc.)
@property (strong, nonatomic) PUInputVisualStyle *inputVisualStyle; //
`inputVisualStyle` is used to style input view, such as: card number input, cvv input,
etc.
@property (strong, nonatomic) PUButtonVisualStyle *primaryButtonStyle; //
'primaryButtonStyle' is used for primary buttons, such as: 'Save an use' button in
card create flow, etc.
@property (strong, nonatomic) PUButtonVisualStyle *basicButtonStyle; //
'basicButtonStyle' is used for basic buttons, such as: 'Use' button in card create
flow, etc.
@property (strong, nonatomic) PUButtonVisualStyle *inactiveButtonStyle; //
'inactiveButtonStyle' is used for inactive buttons
@property (strong, nonatomic) PUVisualStyleElement *secondaryHeadingStyle; //
secondary heading text style used for ex. in `PUAddCardService` module
@property (strong, nonatomic) PUVisualStyleElement *primaryTextStyle; // primary text
style used for ex. in `PUAboutViewController
@property (strong, nonatomic) PUVisualStyleElement *secondaryTextStyle; // secondary
text style used for ex. in `PUAboutViewController`
```

```
+ (instancetype) defaultStyle;
```

#### **Dark Mode Support**

Dafault style of PUVisualStyle supports Dark Mode. It should automatically apply when device traitCollection change. If you want to create your own visual style, or to change UIColor value of any of existing styles, please keep in mind to use colors with dynamic provider based on userInterfaceStyle.

```
UIColor* awesomeColor = [UIColor colorWithDynamicProvider:^UIColor *
    _Nonnull(UITraitCollection * _Nonnull traitCollection) {
        switch (traitCollection.userInterfaceStyle) {
            case UIUserInterfaceStyleDark:
                return [UIColor redColor];
            default:
                return [UIColor yellowColor];
        }
     }];
PUCardVisualStyle* awesomeCardVisualStyle = [PUCardVisualStyle
preferredCardVisualStyleEnabled];
awesomeCardVisualStyle.backgroundColor = awesomeColor;
```

#### **PUCardVisualStyle**

Class to define visual style for cells. Used for ex. in PUPaymentMethodListViewController

```
@property (strong, nonatomic) UIColor* backgroundColor;
@property (strong, nonatomic) UIColor* titleTextColor;
@property (strong, nonatomic) UIColor* subtitleTextColor;
@property (assign, nonatomic) CGFloat borderCornerRadius;
@property (strong, nonatomic) UIColor* borderColor;
@property (assign, nonatomic) CGFloat borderWidth;

/**
    Initializes an `PUCardVisualStyle` object with default parameters for `enabled` state.
    @return The newly-initialized PUCardVisualStyle instance
*/
+ (instancetype) preferredCardVisualStyleEnabled;

/**
    Initializes an `PUCardVisualStyle` object with default parameters for `disabled` state.
    @return The newly-initialized PUCardVisualStyle instance
*/
+ (instancetype) preferredCardVisualStyle instance
*/
+ (instancetype) preferredCardVisualStyle instance
```

#### **PUInputVisualStyle**

Class to define visual style for inputView (textField). Used for ex. in PUAddCardService

```
@property (strong, nonatomic) UIColor* inputTextColor;
@property (strong, nonatomic) UIFont* inputBackgroundColor;
@property (strong, nonatomic) UIColor* inputBackgroundColor;
@property (strong, nonatomic) UIColor* inputBorderColor;
@property (assign, nonatomic) CGFloat inputBorderWidth;
@property (assign, nonatomic) UIColor* inputBottomTextColor;
@property (strong, nonatomic) UIFont* inputBottomTextFont;
@property (assign, nonatomic) UIEdgeInsets contentInsets;
@property (assign, nonatomic) UIEdgeInsets contentInsets;
@property (assign, nonatomic) CGFloat height;

/**
    Initializes an `PUInputVisualStyle` object with default parameters
@return The newly-initialized PUInputVisualStyle instance
*/
+ (instancetype) preferredInputVisualStyle;
```

#### **PUButtonVisualStyle**

Class to define visual style for buttons. Used for ex. in PUAddCardService

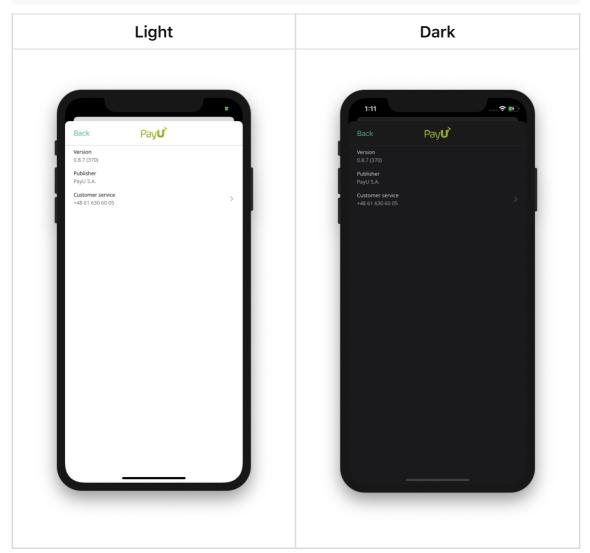
```
@property (strong, nonatomic) UIColor* buttonBorderColor;
@property (assign, nonatomic) CGFloat buttonBorderWidth;
@property (assign, nonatomic) CGFloat buttonCornerRadius;
@property (strong, nonatomic) UIColor* buttonBackgroundColor;
@property (assign, nonatomic) UIEdgeInsets buttonContentInsets;
@property (strong, nonatomic) UIFont* buttonTextFont;
@property (strong, nonatomic) UIColor* buttonTextColor;
@property (assign, nonatomic) CGFloat buttonHeight;
Initializes an `PUButtonVisualStyle` object with default parameters for `primary`
stvle.
Oreturn The newly-initialized PUButtonVisualStyle instance
+ (instancetype) preferredPrimaryButtonVisualStyle;
Initializes an `PUButtonVisualStyle` object with default parameters for `basic`
@return The newly-initialized PUButtonVisualStyle instance
+ (instancetype) preferredBasicButtonVisualStyle;
/**
Initializes an `PUButtonVisualStyle` object with default parameters for `inactive`
@return The newly-initialized PUButtonVisualStyle instance
+ (instancetype) preferredInactiveButtonVisualStyle;
```

## **About screen**

This screen presents additional information about payment SDKto end user. It's available from for example:

PaymentMethods & PaymentWidget but can be also presented by Merchant by itself (with different UI style):

```
PUVisualStyle *uiStyle = [PUVisualStyle defaultStyle];
PUAboutViewController *aboutViewController = [PUAboutViewController
aboutViewControllerWithVisualStyle:uiStyle];
```



# WebPayments

## Introduction

Main purpose in using this module is to help end user successfully process Pay By Links, PEX and 3DS payments. This doesn't mean that the cash was transferred from user to merchant - this needs additional time to process (merchant needs to check it between BackendPayU and BackendMerchant).

- Pay By Link is a type of payment when user needs to use browser to pay for the purchased products
- PEX (PayU Express) is a type of payment that is usually approved without additional user authorization, however certain transactions (of high value, high frequency, etc) can have additional

web authorization, similar to Pay By Links.

• 3DS (3-D Secure: <a href="https://en.wikipedia.org/wiki/3-D\_Secure">https://en.wikipedia.org/wiki/3-D\_Secure</a>) is a type of payment when user needs to use browser to authorize card payment

Sample use case for WebPayments module - handling PBL payment:

- Checkout/Payment Process user select pay with PBL (login to specific bank and pay)
- Checkout/Payment Process at the end of local check out request is send to merchant backend to create an order on PayU side
- Checkout/Payment Process Response from created order is passed from merchant backend to PayU SDK Lite (via mobile app) Handle User
- Payment WebPayments module check if user paid for shopping using selected bank
- Payment Status status code is passed to merchant's mobile app

#### This module contains objects:

- PUWebAuthorizationViewController presents for user PayByLink process and handle whole interaction
- PUWebAuthorizationBuilder creates PUWebAuthorizationViewController with provided request and UI style.

```
- (PUWebAuthorizationViewController
*)viewControllerForPayByLinkAuthorizationRequest:
(PUPayByLinkAuthorizationRequest *)request

visualStyle:(PUVisualStyle *)style;

- (PUWebAuthorizationViewController
*)viewControllerFor3dsAuthorizationRequest:(PU3dsAuthorizationRequest *)request

visualStyle:(PUVisualStyle *)style;

- (PUWebAuthorizationViewController
*)viewControllerForPexAuthorizationRequest:(PUPexAuthorizationRequest *)request

visualStyle:(PUVisualStyle *)style);
```

PUPayByLinkAuthorizationRequest - represents PayByLink request with order IDs, redirect
 URIs - all expected fields are initialized by designated initializer:

• PUAuthorizationDelegate - protocol to be implemented by PUWebAuthorizationViewController delegate to receive payment status.

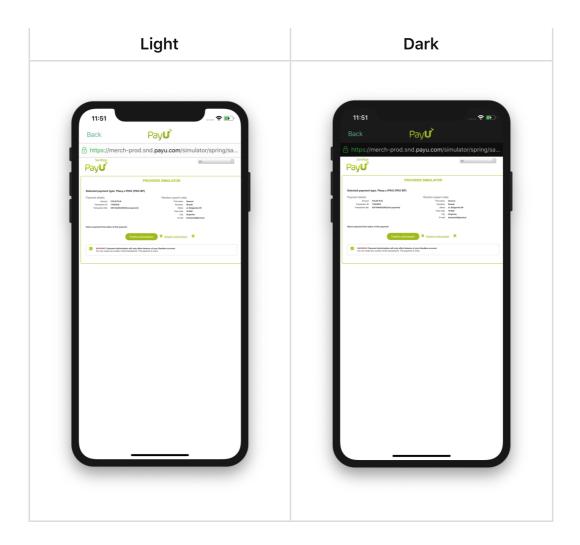
- PUAuthorizationResult webPayment method status with possible values:
  - when PUAuthorizationResultContinueCVV received payment requires authorization with CVVAuthorization module
  - when PUAuthorizationResultFailure additional information will be propagated by error object

```
typedef NS_ENUM(NSInteger, PUAuthorizationResult) {
  PUAuthorizationResultSuccess,
  PUAuthorizationResultFailure,
  PUAuthorizationResultContinueCvv
};
```

To use WebPayment method module (PayByLink) you have to:

- Initial condition create order on PayU backend with PayByLink or 3DS payment (documentation link: <a href="https://payu21.docs.apiary.io/#reference/api-endpoints/order-api-endpoint/create-a-new-order">https://payu21.docs.apiary.io/#reference/api-endpoints/order-api-endpoint/create-a-new-order</a>)
- create PUPayByLinkAuthorizationRequest and fill all necessary fields (the only required field is redirectUri, all others optional and can be used by merchant when authorization result receive)
- create PUWebAuthorizationViewController with help of PUWebAuthorizationBuilder (PUVisualStyle injected)

• implement PUAuthorizationDelegate



To use WebPayment method module with 3DS you have to change (in above example):

To use WebPayment method module with PEX you have to change (in above example):

```
PUPexAuthorizationRequest *request = [PUPexAuthorizationRequest alloc]
   initWithOrderId:@"orderID"
        extOrderId:@"externalOrderID"
        redirectUri:[NSURL URLWithString:@"redirectURIString"]
        continueUrl:[NSURL URLWithString:@"continueURLString"]];
```

PUWebAuthorizationViewController \*webAuthorizationViewController =
[[PUWebAuthorizationBuilder alloc] viewControllerForPexAuthorizationRequest:request
visualStyle:uiStyle];

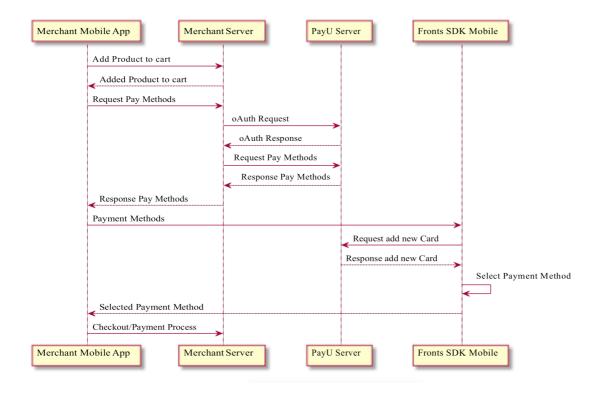
# PaymentMethods & PaymentWidget

#### Introduction

PaymentMethod & PaymentWidget module are the components that help merchant with presenting and retrieving selected Payment Method by the end user. Currently mobile solution will support only Card Payments (Visa, Maestro, Mastercard) and simple PayByLinks (Apple Pay are not supported) This component is integrated with AddCard module so in addition to selecting payment method, user can add manually a card to PayU backend (can also remove card from PayU backend - this requires additional action on merchant side).

Sample use case for PaymentMethod & PaymentWidget module:

- Request Pay Methods obtaining payment methods from PayU backend and pass it to library
- Select Payment Method end user will see PaymentWidget and when pressing it PaymentMethod module will propse payment methods
- Select Payment Method end user will select payment method Select
- · Payment Method return to mobile/local checkout



This module contains objects:

- PUPaymentWidgetService provides PaymentWidget for merchant and handle whole interaction
- PUPaymentWidgetServiceDelegate protocol to be implemented by PUPaymentWidgetService delegate to receive payment method select status

#### @protocol PUPaymentWidgetServiceDelegate

- (void) paymentWidgetService: (PUPaymentWidgetService \*) paymentWidgetService
  didSelectCardToken: (PUCardToken \*) cardToken;
- (void) paymentWidgetService: (PUPaymentWidgetService \*) paymentWidgetService
  didSelectPayByLink: (PUPayByLink \*) payByLink;
- (void) paymentWidgetService: (PUPaymentWidgetService \*) paymentWidgetService
  didSelectApplePay: (PUApplePay \*) applePay;
- (void) paymentWidgetService: (PUPaymentWidgetService \*) paymentWidgetService
  didSelectBlikCode: (PUBlikCode \*)blikCode;
- (void) paymentWidgetService: (PUPaymentWidgetService \*) paymentWidgetService didSelectBlikToken: (PUBlikToken \*)blikToken;
- (void) paymentWidgetService: (PUPaymentWidgetService \*) paymentWidgetService
  didSelectPexToken: (PUPexToken \*) pexToken;
- (void) paymentWidgetServiceDidDeselectPaymentMethod: (PUPaymentWidgetService
  \*) paymentWidgetService;
- (void) paymentWidgetService: (PUPaymentWidgetService \*) paymentWidgetService
  didDeleteCardToken: (PUCardToken \*) cardToken;
- (void) paymentWidgetService: (PUPaymentWidgetService \*) paymentWidgetService
  didDeletePexToken: (PUPexToken \*) pexToken;

@end

- PUPaymentWidget UIView for PUPaymentWidget
- PUPaymentMethodsConfiguration configuration object.

```
@interface PUPaymentMethodsConfiguration : NSObject
  @property (copy, nonatomic) NSString *posID; // Describes MerchantID
  @property (nonatomic) PUEnvironment environment; // Describes which
environment should be used for network calls
  @property (copy, nonatomic) NSArray <PUCardToken *> *cardTokens; //
CardTokens retrived for user from PayU backend
  @property (copy, nonatomic) NSArray <PUBlikToken *> *blikTokens; //
BlikTokens retrived for user from PayU backend
  @property (copy, nonatomic) NSArray <PUPayByLink *> *payByLinks; //
PayByLinks retrived for user from PayU backend
  @property (copy, nonatomic) NSArray <PUPexToken *> *pexTokens; // PEX Tokens
retrived for user from PayU backend
  @property (nonatomic) BOOL showAddCard; // Describes whether Add Card action
should be presented in PaymentMethodListViewController
  @property (nonatomic) BOOL showPayByLinks; // Describes whether Bank Transfer
action should be presented in PaymentMethodListViewController
  @property (nonatomic) BOOL isBlikEnabled; // Describes whether BLIK payment
method should be available. Requires POS with configured BLIK payment method.
  @end
```

To use PUAddCardService you have to:

• create PUPaymentWidgetService

```
PUPaymentWidgetService *paymentWidgetService = [[PUPaymentWidgetService
alloc] init];
```

• create and fill PUPaymentMethodsConfiguration

```
PUPaymentMethodsConfiguration *configuration =

[[PUPaymentMethodsConfiguration alloc] init];

configuration.posId = @"posID_merchantID";

configuration.environment = PUEnvironmentSandbox; // or

PUEnvironmentProduction for production

configuration.cardTokens = received_cardTokens; // assign parsed cardToken

objects received from PayU backend

configuration.pexTokens = received_pexTokens; // assign parsed pexToken

objects received from PayU backend

configuration.payByLinks = received_payByLinks; // assign parsed payByLink

objects received from PayU backend

configuration.showAddCard = YES; // or NO if end user shouldn't have

possibility to add new card
```

o implement & set PUPaymentWidgetServiceDelegate

```
paymentWidgetService.delegate = self;
```

 grab PUPaymentWidget from PUPaymentWidgetService and present it to end user according to your strategy

```
PUPaymentWidget *paymentWidget = [paymentWidgetService
getWidgetWithStyle:uiStyle configuration:configuration];
```

• during the lifetime of PUPaymentWidgetService you still can update configuration attached to it without need to recreat whole object

```
PUPaymentMethodsConfiguration *newConfiguration =
[[PUPaymentMethodsConfiguration alloc] init];
// ... update all needed fields ...
[paymentWidgetService updateWithConfiguration:newConfiguration];
```

• and you can also clear all cache (provided payment methods (pbls, cards & pex) and selected payment method) for PUPaymentWidgetService

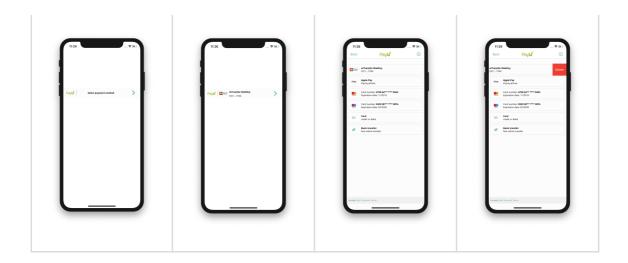
```
[paymentWidgetService clearCache]
```

### Note

When user trigger delete action for card token or PEX token payment method this will callback to merchant with

```
- (void) paymentWidgetService: (PUPaymentWidgetService *) paymentWidgetService
didDeleteCardToken: (PUCardToken *) cardToken;
- (void) paymentWidgetService: (PUPaymentWidgetService *) paymentWidgetService
didDeletePexToken: (PUPexToken *) pexToken;
```

which should be handle on PayU backend according to documentation: <a href="https://payu21.docs.apiary.io/#introduction/integration-flow">https://payu21.docs.apiary.io/#introduction/integration-flow</a>

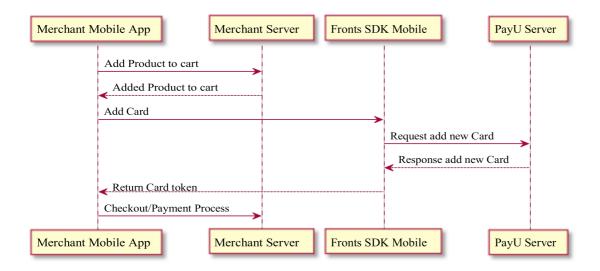


# **AddCard**

#### Introduction

AddCard module is used to add new payment card by the user to PayU endpoint. Sample use case for using AddCard module:

- Add Card Open Merchant View with AddCard module
- Request add new Card Tokenize sended card on PayU backend
- Request add new Card/Return Card token Send token to merchant mobile App



Embedding AddCard form on screen is on merchant side.

This module contains objects:

- PUAddCardService provides AddCard form for merchant and handle whole interaction. Requires
  from merchant to provide buttons to trigger action
  - Use this action will use card one (create one time token) will not store this card in PayU backend
  - Save & Use this action will save (after 1st correct payment) card on PayU backend (card will be available in retreive payment methods)

- PUAddCardViewController presents for user all screen AddCard form and handle whole interaction.
- PUAddCardViewControllerDelegate protocol to be implemented by PUAddCardViewController delegate to receive add card status.

#### **PUAddCardService**

To use PUAddCardService you have to:

• create PUAddCardService

```
PUAddCardService *addCardService = [[PUAddCardService alloc] init];
```

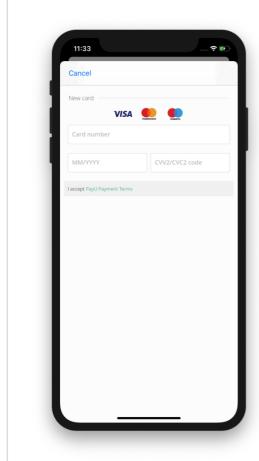
• grab AddCardWidget from PUAddCardService and layout it in parent view

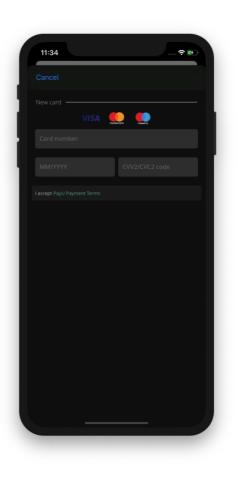
```
PUVisualStyle *uiStyle = [PUVisualStyle defaultStyle];
UIView *addCardWidget = [addCardService addCardViewWithStyle:uiStyle];
// add addCardWidget to parent view & layout
```

• add action buttons with action triggering

• present View/ViewController to user according to your strategy

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# PUAddCardViewController

This module can be used when merchant doesn't want to apply custom branding for add card form and still want to be able to provide user possibility to add new card for payment. PUAddCardViewController is presented by SDK for add card action from PaymentMethod List

To use PUAddCardViewController you have to:

• create PUAddCardViewController

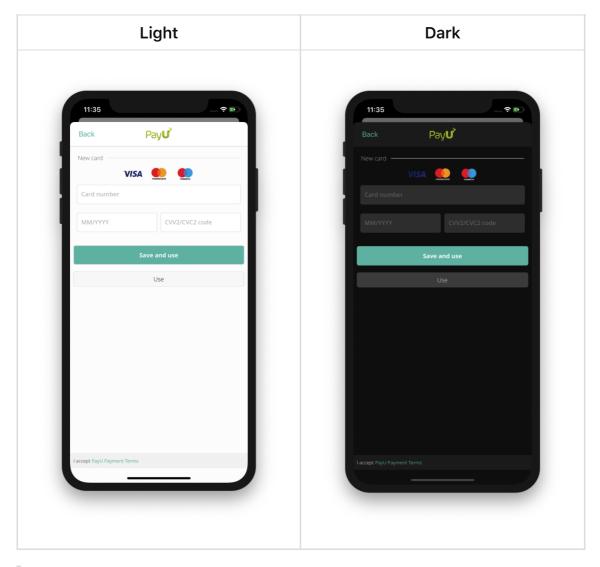
```
PUVisualStyle *uiStyle = [PUVisualStyle defaultStyle];
PUAddCardViewController *addCardViewController = [PUAddCardViewController
addCardViewControllerWithVisualStyle:uiStyle merchantID:@"merchantID"];
```

• implement & set PUAddCardViewControllerDelegate

```
addCardViewController.addCardDelegate = self;
```

• present PUAddCardViewController

```
UINavigationController *navigationController = [[UINavigationController
alloc] initWithRootViewController:addCardViewController];
  [navigationController presentViewController:navigation animated:YES
completion:nil];
```



NOTE: AddCard functionality implements SSL certificate pinning. Listening to network traffic using an untrusted certificate will end with <code>NSURLErrorCancelled</code> (-999).

# **CVV** Authorization

### Introduction

CVVAuthorization module is used to authorize card payment with CVV code (provided by user) and is used when PayU backend requires this action on user side:

- card payment with CVV authorization
- card payment with 3DS authorization which requires additionally to be authorized with card CVV

This module contains objects:

- PUCVVAuthorizationHandler Provides form to user & handles authorization process on backend side.
- PUCVVAuthorizationResult CVV Authorization status with possible values:

```
typedef NS_ENUM(NSInteger, PUCVVAuthorizationResult) {
   PUCVVAuthorizationStatusCanceled = 0,
   PUCVVAuthorizationStatusFailure,
   PUCVVAuthorizationStatusSuccess
};
```

To use PUCVVAuthorizationHandler you have to:

• create PUCVVAuthorizationHandler

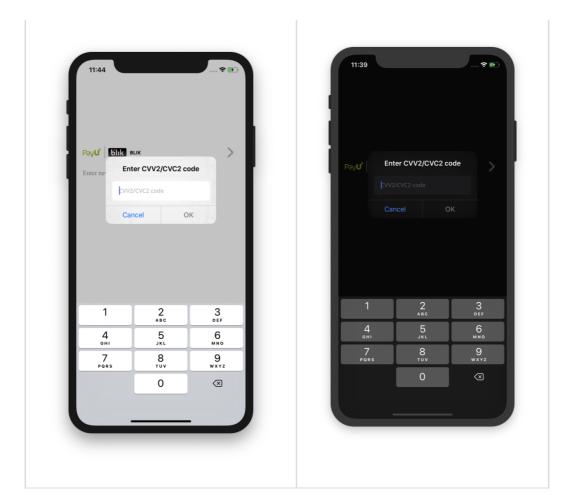
```
PUVisualStyle *uiStyle = [PUVisualStyle defaultStyle];
PUCVVAuthorizationHandler *cvvAuthorizationHandler =
[[PUCVVAuthorizationHandler alloc] initWithVisualStyle:uiStyle

UIparent:parentViewController
environment:PUEnvironmentSandbox];
```

• trigger authorization process

```
[cvvAuthorizationHandler
authorizeRefReqID:@"refReqID_received_from_PayUBackend"
status:^(PUCVVAuthorizationResult authorizationResult) {
    // implement authorization status change here
}];
```

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# **New BLIK payments**

### Introduction

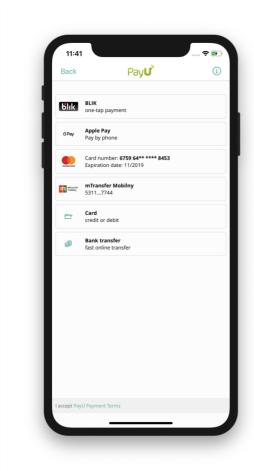
At start there is an possibility to use BLIK as PBL payment method. From user perspective steps looks like:

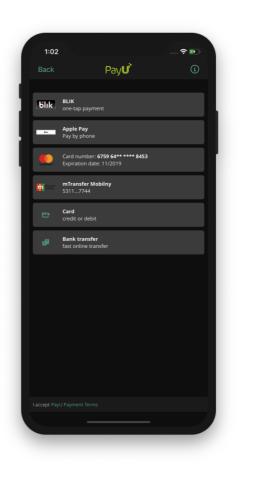
- Press on Widget
- Press on Bank Transfer button
- Select "BLIK"
- Payment process will be handled by WebView container with redirection system.

### **New Blik**

This payment will differ from previous BLIK payment. To unlock new payment type please contact with PayU Support or your contact on PayU site to configure POS for BLIK 2.0.

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# Setup on Mobile

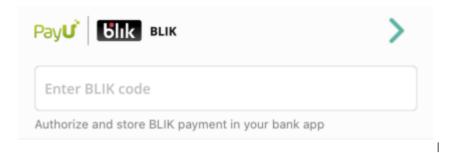
To turn on new BLIK please set the new flag in PUPaymentMethodsConfiguration object:

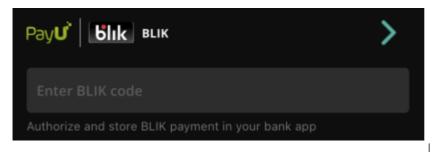
```
PUPaymentMethodsConfiguration *config = [PUPaymentMethodsConfiguration new]; config.isBlikEnabled = YES; // Default value for this property is NO.
```

In case when user didn't retrieve saved BLIK payment method, library will add one generic "BLIK" (called PUBlikCode) item that will be seen above card payment method. After selecting generic BLIK payment user will need to input 6 digit value from bank application. On the other hand, when retrieved payment methods return BLIK payment method (called PUBlikToken), user don't need to input 6 digit value as it is not mandatory. All BLIK tokens passed to configuration will appear in the payment methods list. When given array of BLIK tokens is nil, empty, or is not set, BLIK code item will appear in the list.

```
config.blikTokens = @[[[PUBlikToken alloc]
    initWithValue:@"retreivedTokenValue"
    brandImageProvider:brandImageProvider
    type:@"retreivedTokenType"
    isEnabled:YES]];
```

PUBlikCode is a Payment when user does not store any BLIK payments in PayU environment so in this case user is required to input 6 digit code. | Light | Dark | | ------ | ------ | |





Handling generic BLIK CODE and BLIK TOKEN payments selection:

```
@interface ViewController () <PUPaymentWidgetServiceDelegate> @end
@implementation ViewController
- (void) paymentWidgetService: (PUPaymentWidgetService *) paymentWidgetService
didSelectBlikCode: (PUBlikCode *) blikCode {
    // handle selection here
}
- (void) paymentWidgetService: (PUPaymentWidgetService *) paymentWidgetService
didSelectBlikToken: (PUBlikToken *) blikToken {
    // handle selection here
}
@end
```

Widget automatically validates user input. It does not allow to enter non-digit characters. Characters count must equal 6. If these conditions are not satisfied, blikAuthorizationCode will return nil.

```
if (paymentWidgetService.isBlikAuthorizationCodeRequired) {
   NSString *code = paymentWidgetService.blikAuthorizationCode;
   // use code here
}
```

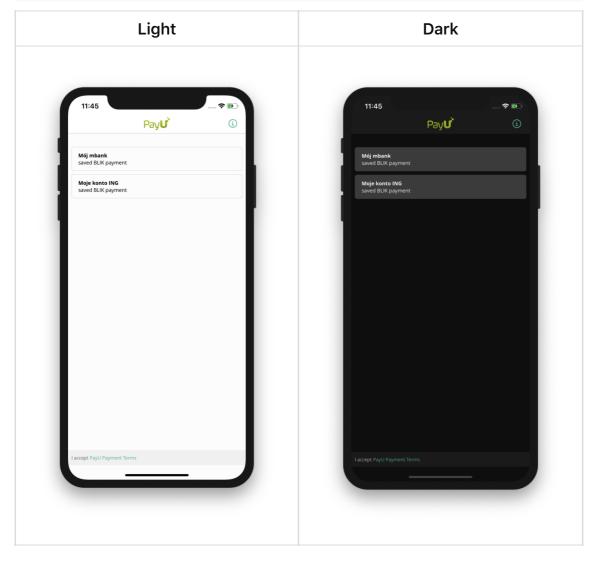
### Handling more than one BLIK - Ambiguity

In case when user select BLIK as payment and create an OCR with it, PayU backend can return AUTH\_TOKEN\_NONUNIQUE. This status code inform that the end user has more than one BLIK token saved in bank and merchant should check blikData params and present possible BLIK payments to user.

In order to present possible BLIK payments, merchant can instantiate a

PUBlikAlternativesViewController object and present it to the user. This view controller expects to receive a list of PUBlikAlternative objects created with data given in blikData response fields.

```
NSArray<PUBlikAlternative *> *itemsList = @[[[PUBlikAlternative alloc]
initWithAppLabel:appLabel1 appKey:appLKey1],
```



Handling BLIK ALTERNATIVE selection:

# **PUFooterView**

Note: Footer view desn't support customization (there is no possibility to apply PUVisualStyle)

This module can be used when merchant whant to add terms & conditions footer to other views in app. Texts and action are handle by PuFooterView (documents content provided by PayU). Texts in footer are translated by PayU SDK.

Parameter/member UIParent is used as parent <code>ViewController</code> for <code>ViewController</code> used to load terms & condition document. To use <code>PUFooterView</code> you have to grab <code>PUFooterView</code> and present it to end user according to your strategy

PUFooterView \*footerView = [PUFooterView footerViewWithUIParent:self];

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