Mobile Application Builder Guide-iOS Guide Oracle Banking Digital Experience Patchset Release 22.2.1.0.0

Part No. F72987-01

May 2023

ORACLE

Mobile Application Builder Guide-iOS Guide May 2023

Oracle Financial Services Software Limited Oracle Park Off Western Express Highway Goregaon (East) Mumbai, Maharashtra 400 063 India Worldwide Inquiries: Phone: +91 22 6718 3000 Fax:+91 22 6718 3001

www.oracle.com/financialservices/

Copyright © 2006, 2022, Oracle and/or its affiliates. All rights reserved.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate failsafe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

This software or hardware and documentation may provide access to or information on content, products and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services.

Table of Contents

1.	Pre	face	1–1
1	.1	Intended Audience	1–1
1	.2	Documentation Accessibility	1–1
1	.3	Access to Oracle Support	1–1
1	.4	Structure	1–1
1	.5	Related Information Sources	1–1
2.	OB	DX Servicing Application	2–1
2	.1	Prerequisite	2–1
2	.2	Create Project	2–1
2	.3	Create Project Using Remote UI	2–1
2	.4	Create Project Using Local UI by adding UI to workspace	2–1
2	.5	Open project in Xcode	2–2
2	.6	Generating Certificates for Development, Production and Push Notifications	2–5
2	.7	Push Notification Actionable Alerts Configuration	2–10
2	.8	Push Notification 2FA configuration	2–11
2	.9	ODA Chatbot Inclusion	2–12
2	.10	eKYC Implementation	2–15
2	.11	Widget Functionality	2–18
2	.12	Scan to Pay from Application Icon	2–19
2	.13	Scan Card using Augmented Reality	2–20
2	.14	Passkey (Passwordless login)	2–22
2	.15	Deeplinking - To open reset password, claim money links with the application	2–25
3.	Arc	hive and Export	3–1
4.	OB	DX Authenticator Application	4–1
4	.1	Authenticator UI (Follow any one step below)	4–1
4	.2	Authenticator Application Workspace Setup	4–3
4	.3	Building Authenticator Application	4–5
4	.4	Using SSL in Authenticator App:	4–6

1. Preface

1.1 Intended Audience

This document is intended for the following audience:

- Customers
- Partners

1.2 **Documentation Accessibility**

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

1.3 Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For information, visit

http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit

http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs_if you are hearing impaired.

1.4 Structure

This manual is organized into the following categories:

Preface gives information on the intended audience. It also describes the overall structure of the User Manual.

The subsequent chapters describes following details:

- Introduction
- Preferences & Database
- Configuration / Installation.

1.5 **Related Information Sources**

For more information on Oracle Banking Digital Experience Patchset Release 22.2.1.0.0, refer to the following documents:

Oracle Banking Digital Experience Installation Manuals



2. OBDX Servicing Application

2.1 <u>Prerequisite</u>

- Download and Install node js as it is required to run npm and cordova commands.
- XCode to be download from Mac App Store.
- OBDX iOS App is supported only on current iOS version and only one version preceding that.

2.2 Create Project

Ensure Nodejs Version is >= 12 and latest Xcode version

- 1. Extract iOS workspace from installer and place in a folder.
- 2. The workspace by default contains framework for running on devices. Hence to run the application on simulator, delete and copy the 4 frameworks (OBDXExtensions.framework, OBDXFramework,framework, OBDXWatchFramework.framework, Cordova.framework) from installer/simulator to zigbank\platforms\ios directory.

2.3 Create Project Using Remote UI

Make the following changes to index.html using any code editor of choice:

In var server_url, put the same KEY_SERVER_URL to be used in app.plist

In workspace create a copy of index.html in the same folder and rename it to home.html.

In index.html/home.html in workspace update jet_url = "https://static.oracle.com/cdn"On the server side where UI is deployed in framework/js/configurations/config.js set Jet "baseUrl" as https://static.oracle.com/cdn/jet After this proceed to **2.5 Open Project in Xcode**.

2.4 Create Project Using Local UI by adding UI to workspace

Use any 1 option below of a/b

a. Building un-built UI (required in case of customizations)

(UI is same for internet and mobile, same build process of internet to be followed)

b. Using built UI (out of box shipped with installer)

Available at --

OBDX_Installer/installables/ui/deploy (Main release, OBDX installer), OBDX_Patch_Installer/installables/ui/deploy (Patchsets)

• Create a copy of index.html in the same folder and rename it to home.html.



 Copy folders(components, extensions, framework, images, flows, lzn, home.html ,partials, resource, index.html, build.fingerprint) to workspace (zigbank/platforms/ios/www)

Note: When copying to www, index.html already present in the workspace should be replaced)

Ensure webhelp folder is not copied.

Download oraclejet-x.y.source zip file

x.y refer to the version of Oracle JET used

- 1. <u>Unzip & copy is and css folders to workspace as below</u>
 - a. assets\www\framework\js\libs\oraclejet\x.y.0\js
 - b. assets\www\framework\js\libs\oraclejet\x.y.0\css
- 2. In config.js update <u>values</u> as highlighted below
 - a. {hostedAt:"local",baseUrl:"framework/js/libs/oraclejet"
- 3. In index.html update require.js path
 - a. framework/js/libs/oraclejet/x.y.0/js/libs/require/require.js

2.5 Open project in Xcode

Open Xcode by clicking ZigBank.xcodeproj at zigbank/platforms/ios/

- 1. Adding URLs to app.plist (ZigBank/Resources)
 - a. NONOAM (DB Authenticator setup)

SERVER_TYPE	NONOAM		
KEY_SERVER_URL	https://mumaa012.in.oracle.com:18443/		
WEB_URL	https://mumaa012.in.oracle.com:18443/		

b. OBDXTOKEN (Token based mechanism)

SERVER_TYPE	OBDXTOKEN
KEY_SERVER_URL	https://mumaa012.in.oracle.com:18443
WEB_URL	https://mumaa012.in.oracle.com:18443

c. OAUTH Setup (Refer to installer pre requisite documents for OAuth configurations)



SERVER_TYPE	OAUTH
KEY_SERVER_URL	Eg. https://mumaa012.in.oracle.com:18443/ (This URL must be of OHS without webgate)
WEB_URL	Eg. https://mumaa012.in.oracle.com:18443/
KEY_OAUTH_PROVIDER_URL	http://mum00aon.in.oracle.com:14100/oauth2/rest/token
APP_CLIENT_ID	<base64 clientid:secret="" of=""> of Mobile App client</base64>
APP_DOMAIN	OBDXMobileAppDomain
WATCH_CLIENT_ID	<base64 clientid:secret="" of=""> of wearables</base64>
WATCH_DOMAIN	OBDXWearDomain
SNAPSHOT_CLIENT_ID	<base64 clientid:secret="" of=""> of snapshot</base64>
SNAPSHOT_DOMAIN	OBDXSnapshotDomain
LOGIN_SCOPE	OBDXMobileAppResServer.OBDXLoginScope

d. IDCS Setup

SERVER_TYPE	IDCS
KEY_SERVER_URL	Eg. https://mumaa012.in.oracle.com:18443/ (This URL must be of OHS without webgate)
WEB_URL	Eg. https://mumaa012.in.oracle.com:18443/
KEY_OAUTH_PROVIDER_URL	http://obdx- tenant01.identity.c9dev0.oc9qadev.com/oauth2/v1/toke n
APP_CLIENT_ID	<base64 clientid:secret="" of=""> of Mobile App client</base64>
WATCH_CLIENT_ID	<base64 clientid:secret="" of=""> of wearables</base64>
SNAPSHOT_CLIENT_ID	<base64 clientid:secret="" of=""> of snapshot</base64>
LOGIN_SCOPE	obdxLoginScope
OFFLINE_SCOPE	urn:opc:idm:myscopes offline_access



e. Common configurations

0			
CurrencyCode	Currency code for Siri Payments		
PaymentPurposeRequiredFlag	Payment purpose required for Siri payments		
SUITENAME	Group identifier for sharing keystore information. Same as given in app groups (mandatory to be given same as App Group name)		
BankName	Name of bank to be shown on touch id / face id popup		
CertificateType	Extension of SSL Pinned certificates (Eg cer/der)		
PinnedUrl	Pinning URL to be entered here.		
PinnedCertificateName	Houses the certificate name (without extension) of the pinning certificate. Old certificate (about to expire) and new one can co-exist.		
SSLPinningEnabled	To enable SSL Pinning		
SSLPinningEnabledNoNetworkCall	Provides the option of whether to load the login page if SSL Pinning fails. SSLPinningEnabled must be set to 1 for it to work.		
	 If set to 1 and SSLPinningEnabled is set to 1 then if SSL Pinning fails, then login page does not load. 		
	 If set to 0 and SSLPinningEnabled is set to 1 then if SSL Pinning fails, then login page loads. 		
ForceUpdate	To enable/disable updating of app forcibly		
AppStoreID	ID of the app in AppStore for force update		
AppStoreURL	URL to identify app in AppStore for force update		
WatchOATCorp	To enable/disable Own Account Transfer through Apple Watch for corporate users only		
WatchSnapshot	To enable/disable snapshot capability in Apple Watch		
SiriRequiredFlag	To enable/disable Siri capability		
DomainDeployment	To enable/disable domain-based deployment		



2. Adding chatbot support to mobile application (Optional) (refer section **ODA Chatbot Inclusion** for more details)

CHATBOT_ID	The tenant ID
CHATBOT_URL	The web socket URL for the ChatApp application in ODA

3. Adding eKYC verification support to mobile application (Optional) (see section eKYC Implementation more details)

LX_CLIENT_ID The client ID		LX_CLIENT_ID	The client ID	
----------------------------	--	--------------	---------------	--

4. Adding Bundle Identifiers

Bundle identifiers needs to be added in the Info.plist of each the frameworks along with the Signing Capabilities tab in Xcode. For example, the bundle identifier used is abc.def.ghi.jkl. The steps to be followed are,

- Right click on OBDXFramework.framework(in Xcode's Project Navigator) -> Show in Finder
- When the finder directory opens the right click OBDXFramework.framework -> Show package contents.
- Open Info.plist and set Bundle identifier as abc.def.ghi.jkl.OBDXFramework
- Repeat the steps for the other three frameworks as well, with the following values:
 - > Bundle identifier for Cordova.framework : abc.def.ghi.jkl.Cordova
 - > Bundle identifier for OBDXExtensions.framework : abc.def.ghi.jkl.OBDXExtensions
 - Bundle identifier for OBDXWatchFramework.framework : abc.def.ghi.jkl. OBDXWatchFramework
- 5. Siri-Payload.plist (ZigBank/Resources) is provided to specify entries in the Siri payload based on transaction types (internal, domestic or international). Entries common to all the transaction types can also be entered.

2.6 <u>Generating Certificates for Development, Production and</u> <u>Push Notifications</u>

Create all certificates (by uploading CSR for keychain utility), provisioning profiles and push certificates as shown below by login in developer console. For development add device UUIDs and add same to provisioning profiles. Add capabilities as shown below and ensure the bundle identifier matches the one of the application in Xcode



OBDX Servicing Application

Salari recimology Preview Pil	e Edit View History	Bookmarks Develop Window Help		zc	xom 🗿 🗘 🏯 🍕	🔉 🔺 🕚 🕒 🕬 🙃 🔍	: 😑 🍋 Tue 29 Nov 1
••• • • •		0	a developer.apple.com				
	É Developer				Priya	Kushagra Saxena m Shah - 3NXJ972C93	
	Certificat	tes, Identifiers & P	rofiles				
	Certificates	Certificates 😏				Production ~	
	Identifiers	NAME ~	TYPE	PLATFORM	CREATED BY	EXPIRATION	
	Devices	Priyam Shah	Developer ID Application	macOS	Priyam Shah	2025/05/15	
	Keys	Priyam Shah	Developer ID Installer	macOS	Priyam Shah	2025/05/15	
	Services	Priyam Shah	Developer ID Application	macOS	Priyam Shah	2026/04/13	
		Priyam Shah	Developer ID Installer	macOS	Priyam Shah	2026/04/13	
		Priyam Shah	Developer ID Application	macOS	Priyam Shah	2026/11/11	
		Priyam Shah	Developer ID Installer	macOS	Priyam Shah	2026/11/11	
		Priyam Shah	iOS Distribution	iOS	Priyam Shah	2023/11/02	



Certificates, Identifiers & Profiles

Certificates	Identifiers 😌	Q App ID
Identifiers	NAME ~	IDENTIFIER
Devices Profiles	AccountsWidget	com.ofss.digx.obdx.zigbank.AccountsWidget
Keys	Futura Bank	com.ofss.digx.obdx.zigbank.3NXJ972C93
Services	MacOS Dev	com.ofss.digx.obdx.zigbank.macos
	Notifications	com.ofss.digx.obdx.zigbank.OBDXNotification
	OBDX ZigBank	com.ofss.digx.obdx.zigbank
	OBDX ZigBank iMessage	com.ofss.digx.obdx.zigbank.ObdxlmessageExtension
	OBDX Zigbank OBDXShortcuts	com.ofss.digx.obdx.zigbank.OBDXShortcuts
	OBDX Zigbank OBDXShortcutsUI	com.ofss.digx.obdx.zigbank.OBDXShortcutsUI
	OBDX Zigbank OBDXSiriExt	com.ofss.digx.obdx.zigbank.OBDXSiriExtension
	OBDX Zigbank OBDXSiriExtUI	com.ofss.digx.obdx.zigbank.OBDXSiriExtensionUI
	OBDX Zigbank watchkitapp	com.ofss.digx.obdx.zigbank.watchkitapp
	OBDX Zigbank watchkitapp extension	com.ofss.digx.obdx.zigbank.watchkitapp.watchkitextension
	ТРР	com.ofss.digx.obdx.zigbank.tpp
	XC com ofss digx obdx zigbank ARKitImageDetection	com.ofss.digx.obdx.zigbank.ARKitImageDetection
	XC Wildcard	·





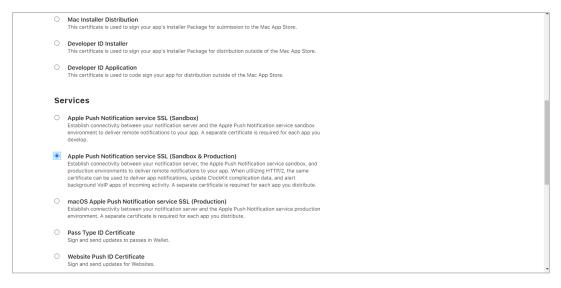


0

• • • • •		•	a developer.apple.com			
	É Developer				Kushagra Saxena - Priyam Shah - 3NXJ972C93	
	Certifica	tes, Identifiers & Pro	files			
	Certificates	Profiles 😏			Distribution	
	Identifiers	NAME ~	PLATFORM	TYPE	EXPIRATION	
	Profiles	OBDX AccountsWidget	iOS	Ad hoc	2023/11/02	
	Keys	OBDX AccountsWidget AppStore	iOS	App Store	2023/11/02	
	Services	OBDX TPP	iOS	Ad hoc	2023/11/02	
		OBDX ZigBank	iOS	Ad hoc	2023/11/02	
		OBDX Zigbank AppStore	IOS	App Store	2023/11/02	
		OBDX ZigBank iMessage	iOS	Ad hoc	2023/11/02	
		OBDX Zigbank iMessage AppStore	iOS	App Store	2023/11/02	
		OBDX Zigbank OBDXSiriExt	iOS	Ad hoc	2023/11/02	
		OBDX Zigbank OBDXSiriExt AppStore	iOS	App Store	2023/11/02	
		OBDX Zigbank OBDXSiriExtUI	iOS	Ad hoc	2023/11/02	
		OBDX Zigbank OBDXSiriExtUI AppStore	IOS	App Store	2023/11/02	
		OBDX Zigbank watchkitapp	iOS	Ad hoc	2023/11/02	
		OBDX Zigbank watchkitapp AppStore	ios	App Store	2023/11/02	
		OBDX Zigbank watchkitapp extension	iOS	Ad hoc	2023/11/02	
		OBDX Zigbank watchkitext AppStore	iOS	App Store	2023/11/02	

Ensure AppGroups capability is added to all profiles and for mobile profile SiriKit, App Groups, Push Notifications must be added.

🖳 🏥 🥏 😇 🧰 🔕 💞 🐼 🧊 🐼 🛛 🔜 🖾 🥔 📾 🚍



Note the certificate/bundle name



🗯 Developer	Developer					
Certifica	Certificates, Identifiers & Profiles					
Certificates	Certificates 😌					
Identifiers	NAME ~	TYPE	PLATFORM			
Devices Profiles	com.ofss.digx.obdx.zigbank	Apple Push Services	iOS			

Note the Team ID from top right corner below the account name.

Navigate to the "Keys" section and create APNS key

Note APNS key and download the .p8 file. Copy the .p8 to config/resources\mobile

Developer		
Developer		
ertificates, Ide	entifiers & Profiles	
< All Keys		
View Key Details		Download
Name APNSDEV Key ID RBPLJN6ZU5		
Enabled Services		
NAME	CONFIGURATION	
Apple Push Notifications service	(APNs)	

Update the password as shown below -

Sr. No.	Table	PROP_ID	CATEGORY_ID	PROP_VA LUE	Purpose
1	DIGX_FW_CO NFIG_ALL_B	APNS	DispatchDetails	<key id=""></key>	Provides key of .p8 certificate
2	DIGX_FW_CO NFIG_ALL_B	APNSKeySto re	DispatchDetails	DATABAS E or CONNECT OR	Specifies whether to pick certificate password from database or from connector. Default DB (No change)
3	DIGX_FW_CO NFIG_ALL_B	APNSCertKe yStore	DispatchDetails	DATABAS E or CONNECT OR	Specifies whether to pick certificate from database or from connector. Default DB (No change)



4	DIGX_FW_CO NFIG_ALL_B	proxy	DispatchDetails	<protocol, proxy_add ress></protocol, 	Provides proxy address, if any, to be provided while connecting to APNS server. Delete row if proxy not required. Example: HTTP,148.50.60.8,80
5	DIGX_FW_CO NFIG_ALL_B	CERT_TYPE	DispatchDetails	For dev push certs add row with value 'dev'	For prod push certificates this row is not required
6	DIGX_FW_CO NFIG_VAR_B	APNSCert		Eg – BEGIN PRIVATE KEY abcd END PRIVATE KEY	Open the .p8 file and copy contents to column (Update for all entities)
7	DIGX_FW_CO NFIG_VAR_B	APNS_BUND LE		Eg. com.ofss.d igx.obdx.zi gbank	Bundle Name (Update for all entities)
8	DIGX_FW_CO NFIG_VAR_B	APNS_TEAM ID		Eg. 3NX1974C 93	Team ID of Apple developer account (Update for all entities)

If CONNECTOR is selected in Step 2 update key as below

O obdy.artifactory.com	Authentication - ZigBank 🗙 🖪 Reports - ZigBank 🛛 🕷 Multi-Fact	tor Authentication: X D Create a New Security Cred: X D Dashboard Decking X 🔺 Summary Report X 🏟 IOS Provisioning Profiles - : X + - O X
		na nanonitation is 🗖 a frank a strand for a strand for a strand st
		ZredentialPortist_actionOverride=/com/bea/console/actions/connector/createsecuritycredential/wisUserSelected 🗢 🚖 🔾 🔕 😢 🔮 ! 🎬 🗄
🔢 Apps 📫 SiteData 🙍 Dashboard [enkins] 🔄 Setting up a standal: 🛛 🌚 grok Reference [2:3] 🛛 🗷 ORACLE-BASE -	- Orac 🚯 Jersey (JAS-RS) Secur 🗟 2 Using OWSM with I 🧧 Using Alternative Aut 🌓 Custom Security Filts 🥃 Password Managems 😢 Nested signed and 🗉 🛷 www.aisteLin/applicat 🔅
ORACLE WebLogic Server Adr	sinistration Console 12c	0
Change Center	🏫 Home Log Out Preferences 🔛 Record Help	Welcome, weblogic Connected to: obdx_domain
View changes and restarts	Home >Summary of Deployments >com.ofss.digr.connector.rar >Roles >com.ofss.digs.connector	in an
Configuration editing is enabled. Future changes will automatically be activated as you	Create a New Security Credential Mapping	
modify, add or delete items in this domain.	Back Next Finish Cancel	
Domain Structure	EIS User Name and Password	
obdr_domain ® Donain Partitions ® Environment -Deployments	Configure the EIS User Name and Password that you would like to map the WebLogic Serve * Indicates required fields	er Uder to:
Services Security Realma	Enter the EIS User Name:	
®-Interoperability ®-Oiagnostics	* EIS User Name:	APNS
	Enter the EIS Password:	
	" EIS Password:	
How do L	* Confirm Password::	
Create outbound credential mappings	Back Next Cancel	
System Status 81		
Health of Running Servers as of 10:36 AM		
Paled (0) Critical (0) Overloaded (0) Warning (0) Oix (2)		
WebLogic Server Ventore: 12.2.1.3.0 Copyright (c) 1996,3017, Oracle and/or its affiliates. Al	Fights meanweal. and/or the affiliates. Other names may be trademarks of their respective symmetry.	



2.7 Push Notification Actionable Alerts Configuration

To enable deep linking with actionable alerts make the following changes on the server end to the push notifications payload:

- 1. Send the "category" as "pac".
- 2. Send the required deep-linking URL in "SUMMARY_TEXT".



2.8 Push Notification 2FA configuration

If Push notification 2fa is enabled at bank side for any transaction then, the screen displays message to wait for the push notification to accept/reject the transaction authentication. The message as well contains a timer of 5 minutes displayed on the UI. This value is set in the UI code. If bank needs to change this value, bank needs to update the value in UI code:

File path: channel/metadata/user-components/push-out-of-band/push-out-of-band/hook.js

Code to be changed: const mins = <<value>>;

Update the value to what bank needs to set it. This value is in minutes.

So, ideally 5 minutes (existing value in base UI code) is an ideal time. Any changes made in this value should satisfy below pre-condition.

- 1. There is an OTP expiration time set in "digx_fw_config_ALL_b" table.
- 2. Also, there is business policy check set to 10 minutes for validation of the generated 2fa token. Bank can write their own business policy where they can modify the 10 minutes time.

So, the time in UI code should not exceed 10 minutes and OTP expiration time in "digx_fw_config_ALL_b" table.



2.9 ODA Chatbot Inclusion

To enable ODA Chatbot services in the mobile app, the following changes needs to be made:

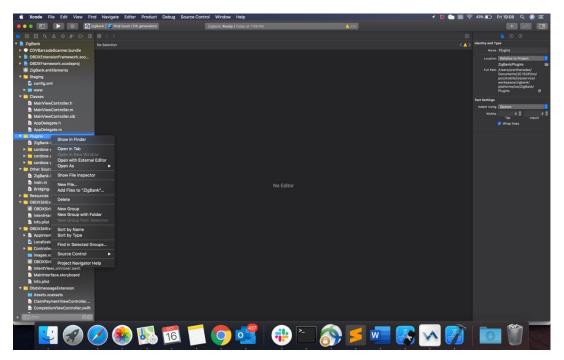
Copy the folder "cordova-plugin-chatbot" from the SVN path : workspace_installer/AppExtensions/ODAChatbot The frameworks can be found at ODA Client SDK for iOS x.y.z - Latest in https://www.oracle.com/downloads/cloud/amcedownloads.html#license-lightbox. After downloading and unzipping the latest version the frameworks for an actual device and simulator can be found inside the folders named "FrameworksActualDevice" and "FrameworksSimulator" respectively. Frameworks to be chosen as per the target and pasted inside "cordova-plugin-chatbot".

Paste the folder "cordova-plugin-chatbot", copied previously in the path : workspace_installer/Zigbank/plugins A screenshot of the destination in Finder is attached herewith.

Finder File	Edit View Go Window			cordova-plugin-chatb]> Fri18:56 Q 💿 ≔
< 151		¢ ~ ሰ 📼					
		cordova-plugin-chatbot			a las lass	cordova-plugin-chatb	
ADTOR ADTORP ADTORP ADCORP Develop Develop Develop Develop Adversor Market Market Market Develop Market Develop Develo	Addressions workspace, installer	 Higher Higher 	 Poolaš Poolaš Poolaš Polage-isčijan Polage-isčija		bison b	app.plist brief bgCallout.png brief bgCallout@2x.png brief bgCalloutDisclosure@2x.png briefiging-Header.h bridging-Header.h bridging-Header.h briefiging-Header.h	
		~ ~ ~					 100
		象 🚯 1		ott 🔑 🎙	- 🔊 🗲	w 🔼	

Open the Zigbank.xcodeproj file, right click on "Plugins" folder and select "New Group" option. Name the group as "cordova-plugin-chatbot".





Right click on the newly created group and select "Add files to "Zigbank"" option, and add all the contents of "cordova-plugin-chatbot" folder, pasted previously.

Kcode File Edit View Find Navigate Editor Product	Debug Source Control Window Help	🕈 関 🐑 奈 42% 🗈 Fri 19:13 Q 🛞 🚍
🔹 💿 💿 📄 🔡 🕼 ZigBank) 🖉 iPod touch (7th generation)	Zigliank: Ready Today at 7:13 PM	
	K D III * 🖬 cordova-plugin-chatbot 🗘 Q Semon	
CDVBarcodeScanner.bundle No Selection	Contration Assets.xcassets	
B OBDXExtensionFramework.xco	Parolines with a paroline second and paroline second and paroline second s	
OBDXFramework.xcodeproj	Recents = bgCallout@2x.png = cordova-plugcandocument = Chatbot.swift	
ZigBank.entitlements	Documents i Figlicalisetblacksure.ong in cordova-plugin-twitter i ChatbotMein.storyboard	
🔻 🦲 Staging	Desktop D	
🙆 config.xml	Downloads Download	
E www	Anotesticae on P Classes P	
Y Classes	Participation Pa	
MainViewController.h	Destination: Copy items if needed	
MainViewController.m		
MainViewController.xib	Added folders: Create groups	
AppDelegate.h		
AppDelegate.m	Add to targets: 🔽 🕜 ZigBank	
* Plugins	OBDXSiriExtension	
▶ 🫅 cordova-plugin-chatbot	OBDXSinExtensionUl	
ZigBank-Bridging-Header.h	ObdxImessageExtension POBDXWatchApp	
cordova-plugin-scandocument	OBDXWatchApp Extension	
cordova-plugin-facebook4		
cordova-plugin-twitter Other Sources		
ZigBank-Prefix.pch		
main.m		No Selection
Bridging-Header.h	New Folder Options Cancel Add	
Resources		
OBDXSiriExtension		
OBDXSiriExtension.entitleme		
IntentHandler.swift		
Info.plist		
OBDXSiriExtensionUI		
AppIntentVocabulary.plist		
Localizable.strings		
► Controllers		
images.xcassets		
OBDXSiriExtensionUI.entitlem		
IntentViewController.swift		
MainInterface.storyboard		
📄 Infa.plist		
🔻 🧮 ObdxImessageExtension		
Assets.xcassets		
ClaimPaymentViewController		
CompletionViewController.swift		
+ Corner DE		
📃 😴 ⊘ 🌸 🕵	TA 💭 🚅 🕂 🔁 🖄 🗾 🚳	<u>a 🕼 🗖 🗖 🗖</u>

After addition of the files, go to "General" tab for "Zigbank" target and under the "Frameworks, Libraries and Embedded Content" section change the embed type of the frameworks "Starscream.framework" and "BotClientUISDK.framework" to "Embed and Sign". Failing to do so will make the app crash after installation.



OBDX Servicing Application

🔹 Xcode File Edit View Fin	d Navigate Editor P	roduct Debug Source Control	Window Help			ş 🔳 💿 関	🗟 41% 🔝 🛛 Fri 19	9:19 Q 🤇) 🖃
🔹 o o 💼 🕞 💷 🔯 za	igtiank) 🌠 iPod touch (7th ger	eration) ZigB	ank: Ready Today at 7:19 PM		🔼 273			+ +	Œ
	😥 < 👌 📑 Zigðank	acodeproj							
🔻 📙 ZigBank	2 ZigBank					())	Identity and Type		
CDVBarcodeScanner.bundle							Name ZigBa		
OBDXExtensionFramework.xco		General	Signing & Capabilities Resource Tags	info Build Settings Build Phase	n Duild Rules		Location DUBLE		
B OBDXFramework.xcodeproj	PROJECT		Device Orientation 😴 Portr						
ZigBank.entitlements	📔 ZigBank		Upsi					s/prarthanadas/	
🔻 🦲 Staging	TARGETS			scape Left scape Right				ments/20.1SUP/ toble/ios/servic	
config.xml	ZigBank						works	ipace/zigbank/	
F 💼 www	OBDXSiriExtension		Status Bar Style Default				ZigBa	rms/los/ nk.xcodeproj	
🕈 🦰 Classes	OBDXSiriExtension			status bar ires full screen			Project Document		
MainViewController.h	ObdsimessageExt			orts multiple windows			Project Format Xcoc	(a) (b) (b) (a) (a) (b) (b) (b) (b) (b) (b) (b) (b) (b) (b	
MainViewController.m	OBDXWatchApp						Organization	an ara-companie	
MainViewController.xib	OBDXWatchApp E	App Icons and Launch Images					Class Prefix		
h AppDelegate.h		 App icons and Launch images 					Class Prenx		
AppDelegate.m			App Icons Source Applico	n	0		Text Settings		
V 🦰 Plugins			Launch Screen File COVLau	inchScreen			Indent Using Space	:01	
🔻 🧮 cordova-plugin-chatbot									4
Assets.xcassets		Supported Intents						ab H ap lines	ident
BotClientUISDK.framework			Class Name Authenti	ication				ap	
Chatbot.swift									
ChatbotMain.storyboard				intents eligible for in-app handling here					
ChatbotViewController.swift									
Starscream.framework									
L ZigBank-Bridging-Header.h									
cordova-plugin-scandocument		 Frameworks, Libraries, and Embed 	ded Content						
cordova-plugin-facebook4			Name		Embed				
cordova-plugin-twitter Other Sources			BotClientUISDK.framework		Embed & Sign 0				
ZigBank-Prefix.pch			FBSDKCoreKit_framework		Embed & Sign C				
main.m			FBSDKLoginKit.framework		Embed & Sign C				
Bridging-Header.h			F8SDKShareKit.framework		Embed & Sign C				
Resources			OBDXExtensions.framework		Embed & Sign C				
OBDXSirExtension			OBOXFramework.framework		Embed & Sign C				
OBDXSiriExtension.entitleme			ObdalmessageExtension.app		Embed Without Signing 0				
IntentHandler.swift			OBDXSiriExtension.appex		Embed Without Signing C				
Info.plist			OBDXSiriExtensionULappex		Embed Without Signing C				
V OBDXSiriExtensionUI			OBOXWatchApp.app		Embed Without Signing C				
AppIntentVocabulary.plist			Starscream framework		Embed & Sign 0				
Localizable.strings									
Controllers									
images.xcassets		Development Assets							
OBDXSiriExtensionULentitlem									
+ (C) (IIII)						Xcode			
									10050
	🖉 🌏 🚺	🛃 16 🦳 (🔈 💕 🕴	<u>) - </u>	5	💽 💊 🗭	0	Ĩ	



2.10 eKYC Implementation

To enable eKYC please follow the steps mentioned below:

- Download the iOS ID Verification SDK from <u>oracle.live.api-ios-id-verification.zip</u> from Oracle Live Experience. All the frameworks inside "release" folder of "oracle.live.api-ios-idverification" are needed viz.
 - OracleLive.framework
 - WebRTC.framework
 - wscSDK.framework
- 2. Go to <u>https://mobile-sdk.jumio.com/com/jumio/ios/jumio-mobile-sdk/</u> and navigate to the latest version to download the Jumio frameworks. Unzip the downloaded folder the following frameworks are of use to us:
 - BAMCheckout.framework
 - DocumentVerification.framework
 - iProov.framework
 - JumioCore.framework
 - JumioProov.framework
 - JumioNFC.framework
 - Microblink.framework
 - Netverify.framework
 - NetverifyBarcode.framework
 - NetverifyFace.framework
 - SocketIO.framework
 - Starscream.framework
 - ZoomAuthentication.framework
- 3. Paste the frameworks downloaded in the previous steps in the folder "cordova-plugin-ekyc" from the SVN path : <u>workspace_installer/AppExtensions/eKYC</u>
- Paste the folder "cordova-plugin-ekyc", copied previously, in the path

 workspace_installer/Zigbank/plugins
 A screenshot of the destination in Finder is attached herewith.



🔹 Finder File	Edit View Go	Window Help					1 🖸 🔰 🛜 🖘 🗐	🕑 Thu 19:51 🔍 🌚 😑
Back/Forward	View							
					cordova-plugin-ekye			
Incursion ALDON ALDON Description Description Description A Application A Application Construction A Application Tops 12 12 12 12 12 12 12 12 12 12		2	 A Roka A Roka	 Bolyczew Bolyczew Bolyczew Bolyczew 	b in jon CRDXFramework CRDXFramework CRDXFramework CDXFramework CD	app.plist bgCallout.png bgCallout@2x.png cgCallout@2x.png cgCallout@2x.png cgCalloutDisclosure@2x.png bgCalloutDisclosure@2x.png bgCalloutDisclosure@2x.png bgCalloutDisclosure.h cgCut.sunchSen.storyboard cgCut.sunch	Constants.swift cordova-plugin-ekyc cordova-plugin-facebook4 cordova-plugin-facebook4 cordova-plugi_candocument	BAMCheckout.framework DocumentVeron.framework iProov.framework
<u> </u>	S	5 🧭 🌑	21 🚺 🧿	off 🕺	1) 🗖 🔜 🤅	1	J

5. Open the Zigbank.xcodeproj file, right click on "Plugins" folder and select "New Group" option. Name the group as "cordova-plugin-ekyc".

🔹 Xcode File	e Edit View Find	d Navigate Editor Product	Debug Source Control Window Help		7 💆 💿 🗐 🤅	° 43% 📭 Fri19:08 Q 🧔 🖃
••• 🗉		gBank) 🌄 iPod touch (7th generation)	ZigBank: Ready Today at 7.08 PM		A 273	
🗖 🖸 🎞 Q 🛆						
🔻 🤮 ZigBank		No Selection			< <u>>></u>	Identity and Type
CDVBarcodeS						Name Plugins
OBDXExtension						Location Relative to Project
OBDXFramew						ZigBank/Plugins 🔤
ZigBank.entiti	lements					Full Path /Users/prarthanadas/ Documents/20.1SUP/los/
Staging config.xml						poc/mobile/ios/service/ workspace/zigbank/
 Consignation www 						platforms/ios/ZigBank/ Plugins ©
V Classes						- 22
MainViewCo	ontroller.h					Text Settings
MainViewCo						Indent Using Spaces
MainViewCo	ontrollier.xib					witths 4 0 4 0
AppDelegat	te.h					📿 Wrap lines
AppDelegat	te.m					
V Plugins	Show in Finder					
ZigBank-I > cordova-i	Open in Tab					
cordova-j	Open in New Windo					
Cordova-j	Open with External					
V Other Sourc	Open As					
D ZigBank-I	Show File Inspector					
🔂 main.m	New File			No Editor		
Bridging-	Add Files to "ZigBar	nk*				
Resources	Delete					
OBDXSiriEx OBDXSiriEx	New Group					
IntentHan	New Group with Fol	lder				
Info.plist	New Group from Se					
V OBDXSiriEx	Sort by Name					
	Sort by Type					
Localizab	Find in Selected Gro	oups				
Controllei	Source Control	•				
IntentViewo	Project Navigator H	elp				
MainInterfai						
Info.plist						
V ObdxImessage	eExtension					
Assets.xcas	ssets					
	entViewController					
Completion	ViewController.swift					
+ 🐨 🕬	08					
		🥭 🌑 💽	16 🚺 🧿 🚰	🔹 🚬 🅎	≶ 🐖 🌄 🐼	

6. Right click on the newly created group and select "Add files to "Zigbank"" option, and add all the contents of "cordova-plugin-ekyc" folder, pasted previously.



			ce Control Window Help				1 🖸 🔰 💼 🛜	36% 🗈 Thu 19:56 Q 🌏 😑
	IDXWatchApp) 🔽 Apple Watch		-	atchApp. Succeeded Today at 6.52				
				cordova-plugin-ekyc	C Q Search			
Zojski CODXFactivensis, framework CODXFactivensis, framework CODXFactivensis, framework CODXFactivensis Code Zojskirk, externets Code Cod	2q4art) 2q4art) 2q4art) 2q 2q 2q4art) 2q 2q 2q4art) 2q4art 2q4a	Protoffes Proto	20050v1671amevork + sportOpkionPlat.prist ooljoon 300XEensions.framevork + 300XEensions.framevork + 2003Wiref.hamevork + 2003Wiref.hamevork + 300XWiref.hamevork + 300X	sos alist populariou pang popular	cordova-plugin-ekyc cordova-plugin-faceback4 cordova-plug_inappbrowser cordova-plug_inappbrowser cordova-plug_icandocument			
P = Codby-shiple-factbook Survey-shiple-factbook Survey-shiple-tatter E = Codby-shiple-tatter E = Codby-shiple-tatter E = Codby-shiple-tatter B = Codby-shiple-tatter	Unit Ind June LL (LINE) MELJUE Paynewick and Societ Suffahult Prinedult	Added folders: C	Create folder references					
AppintentVocabulary.plist Localizable.strings Controllers		New Folder O	otions			Cancel Add		
 images.xcassets OBDXSiriExtensionUI.entitlem 								
 IntentViewController.swift MainInterface.storyboard Info.plist ObdxImessageExtension 								
e e file OE				All Output				
💽 🌏 🚺	🕹 🧭 🌒	21	1 👩 🚅		5	1 🔜 🛊) w 📝	0

7. After addition of the files, go to "General" tab for "Zigbank" target and under the "Frameworks, Libraries and Embedded Content" section change the embed type of all the frameworks to "Embed and Sign". Failing to do so will make the app crash after installation.

	🔯 < > 📄 app.plist	ZigBank stodeproj			
⊠ ╦ Q & ⊘ & ⊃ ⊡ SigBank	Do Collenk				Mentity and Type
OBDXExtensions.framework					Name ZigBank
OBDXExtensions.framework OBDXFramework.framework		Gener	Signing & Capabilities Resource Tags Info Build Settings B	uld Phases Build Rules	Location (Abiolum
OBDXWatchFramework.framew	PROJECT				
ZigBank.entitlements	ZigBank				Full Path (Users/prarthenades/
Staging	TARGETS	 Frameworks, Libraries, and En 	ibedded Content		Documents/20.1SUP/ workspace_installer/boc
config.xml	ig ZigBank		Name	Enbed	mobile/ios/service/ workspace_installer/zigt
	OBDXSiriExtension		AudioToolbox.framework	Do Not Embed C	platforms/los/
t 💼 www	OBDXSiriExtension		AVFoundation.framework	Do Not Embed C	ZigBank xcodeproj
Classes	C ObdstmessageExt		BAMCheckout.framework	Embed & Sign C	Project Document
MainViewController.h	08DXWatchApp		CFNetwork.framework	Do Not Embed C	Project Format Xcode 3.2-compatible
MainViewController.m	OBDXWatchApp E		Cordova.framewsrk	Embed & Sign C	
MainViewController.xib			CoreMedia.framework	Do Not Embed C	
AppDelegate.h			DocumentVerification.framework	Embed & Sign 🗘	Text Settings
AppDelegate.m			EBSDKCoreKit.framework	Embed & Sign C	Indent Using Spaces
Plugins			EBSDKLoginKit.framework	Embed & Sign 🗘	Watts 4 5
r 🛅 cordova-plugin-ekyc			EBSDKShareKit.framework	Embed & Sign 🗘	
BAMCheckout.framework			e iProov.framework	Embed & Sign 🗘	<table-cell> Whap lines</table-cell>
DocumentVerification.fram			JumioCore, framework	Embed & Sign C	
- iProov.framework			Jumici Procy framework	Embed & Sign C	
JunioCore.framework			JunioNFC.framework	Embed & Sign 0	
JumiolProov.framework			📴 libicucore.tbd 🔯 libsqlite3.tbd		
JumioNFC.framework			Histolite(3.0bd)	Embed & Sian C	
MicroBlink.framework			MicroBink, framework	Embed & Sign C Embed & Sign C	
Netverify.framework			NetverifyBarcode.framework	Embed & Sign 0	
NetverifyBarcode.framework			NetverityFace framework	Embed & Sign C	
NetverifyFace.framework			OBDXExtensions.framework	Embed & Sign C	
OracleLive.framework			080XFramework framework	Embed & Sign ()	
OracleLive.swift			ObdximessageExtension.appex	Embed Without Signing C	
OracleLiveMain.storyboard			OBDXSirlExtension.appex	Embed Without Signing C	
OracleLiveWidget.swift			OBDXSHExtensionULappex	Embed Without Signing C	
SocketIO.framework			🚱 OBDXWatchApp.app	Embed Without Signing C	
Starscream.framework			CracleLive framework	Embed & Sign C	
WebRTC.framework			Security.framework	Do Not Embed C	
webk I C.framework			SocketIO.framework	Do Not Embed 🗘	
			Starscream.framework	Embed & Sign 0	
ZoomAuthentication.frame			VideoToolbox.framework	Do Not Embed 0	
cordova-plugin-scandocument			WebRTC.framework	Embed & Sign O	
cordova-plugin-facebook4			wscSDK.framework	Embed & Sign C	
cordova-plugin-twitter			ZoomAuthentication framework	Embed & Sign C	
To Film OE					

Home



2.11 Widget Functionality

Wigets are IOS native feature. Below widgets are vailable in the application

- 1. All Accounts Widgets Widget, showing top 3 account balance.
- 2. Account Details Widget Widget, showing account balance of default account and last 3 transactions of the same account, can be added to the phone home screen. If default account is not set, then the details of the account fetched first is shown.
- Multi-Functional Widget Widget showing default account balance. If default account is not present, it shows details of account fetched first. Additionally, it has option to scan to pay feature
- 4. Scan to Pay Widget Widget which allows to scan to pay.

Prerequisite :

Quick Snapshot feature needs to be enabled in the app.

Removal of Widget functionality from workspace :

To remove the widget functionality from workspace please carry out the following steps:

1. Please delete "AccountsWidgetExtension" from the "Targets" section.

🔹 Xcode File Edit View Find Naviga	te Editor Product Debug Sour	rce Control Window Help		ඩු O 🚢 zoom 🚳 🖪 🤅	 🗢 Q 😫 🌘 Tue 29 Nov 12:67
••• •	🚦 ZigBank	😰 Zigtlank) 📕 Prarthana's IPad			
B - & & & P = B	88 C) 💽 ZigBank.scodepre/				
~ 🚺 ZigBank	🚦 ZigBank				
AccountsWidgetExtension.entitlements		General Signing & Capabilitie	s Resource Tags into Build Settings Build P	Phases Duild Rules	Nerve ZigBank
GBDXExtensions.framework					Location Attentions
OBDXFramework framework	PROJECT	✓ Identity			Containing directory
OBDXWatchFramework.framework	5 ZigBark				Full Path (Users/prarthanodes/
ZigBank.entitlements			Display Name AccountsWidget		Documenta/trunk/los/ service/workspace_installer/
~ 🚍 Staging	TARGETS		Bundle Identifier com ofss.digx.obdx.zigbank.Acc	ountsWidget	zigbank/platforms/ios/ ZigBank.xcodeproj 0
config.xml	🕞 ZigBark				Zigbark.ccodeprej 6
> 🚃 www	OBDXSiriExtension		Suid 1		
js cordova_plugins.js	OBDXSinExtensionU				Project Format Xcode 3.2-compatible
> 🚞 cordova-js-src	ObdzimessageExtension	~ Deployment Info			Organization
js cordova.js	OBDXWatchApp	- Otpiophini inte			Class Prefix
home.html					
> 📰 images	OBDXWatchApp Extension		Pad .		
index.html	Accounts/WidgetExtension	Duplicate ND			Indent Using Spaces
> 📰 plugins		Delete			
✓					Tab Indent
Default-Landscape-ipad.png		Project Editor Help			
Default-Landscapeiphone.png		 Frameworks and Libraries 			
Contrait-load.prg			Name	Embed	
Default-Portrait-iphone.png					
h MainViewController.h			SwiftULframework	Do Not Embed C	
111 MainViewController.m			WidgetKit framework	De Not Embed 0	
X MairWiewController.xib					
h AppDelegate.h					
M AppDelegate.m		> Development Assets			
Localizable.strings					
~ 🗎 Plugins					
> 🚞 cordova-plugin-facebook4					
> 🔤 cordova-plugin-scandocument					
> Cordova-plugin-twitter					
 Other Sources DigBank-Prefix.pch 					
D zigBank-Prefix.pch					
h Bridging-Header.h					
> Resources					
OBDXSiriExtension					
OBDXSiriExtension.entitlements					
MintentHandler.swift					
🖽 Info, plist					
~ = OBDXSiriExtensionUI					
+ (C) File () ()					
		ी 🤁 🌍 🇭	🐼 🐼 🖉	- 🔊 🧭 🖷	

2. Please delete "AccountsWidgetExtension.entitlements" file and "AccountsWidget" folder from Project navigator.



💼 Xcode File Edit View Find Navig				1 ରେ ୦ 📇	zoom 🇞 🖪 💿 🗉 🕞	😤 Q 😭 🕒 Tue 29 Nov 12:59
•••	🔯 ZigBank	😰 ZigBank) 📕 Pranthana's Pac		ZigBank: Ready Today at 12:58 P		
E R R Q A @ # D B	18 < > @ AccountsWidge					
 ZigBank 	🚺 ZigBank) 🛞 AccountsWidgetE	tension.entitlements) No Selection				
AccountsWidgetExtension.entitlements	Show in Finder	Туре	Value			Name AccountsWidgetExtension.enti
OBDXExtensions framework	show in Finder					tiements
OBDXFramework framework	Open in Tab	O Array				Type Default - Entitlements Plist C
OBDXWatchFramework.framework	Open in New Window					Location Relative to Group
Ø ZigBank.entitioments	Open with External Editor					AccountsWidgetExtension.en titlements
v 🎬 Staging	Open As >					Full Peth /Users/precthanadas/
config xml	Show File Inspector					Documents/trunk/los/ service/workspace_installer/
> 🚞 www	show File Inspector					zigbank/pietforms/los/
g cordova_plugins.js	New File					AccountsWidgetExtension.e ntitiements O
> 🚞 cordova-js-src	Add Files to "ZigBank"					
js cordova.js	Add Packages					
A home.html	Delete					
> 🚍 images	Dereto.					
Index.html	New Group					
> 🏥 plugins	New Group without Folder					Localite
~ 🛅 Classes						
Default-Landscape-ipad.png						
Default-Landscape-iphone.png						📃 🌍 ZigBank
Default-Portrait~ipad.png						OBOX5iriExtension
Default-Portrait-iphone.png						OBOXSiriExtensionUI
h MainViewController.h	Source Control					ObdatmessageExtension
MainViewController.m	Score contain P					OEOXWatchApp
X MainViewController.xib	Project Navigator Help					OEDXWatchApp Extension AccountsWidgetExtension
h AppDelegate.h						Accounterweight conson
111 AppDelegate.m						
Localizable strings						
V III Plugins						
> 🚞 cordova-plugin-facebook4						
> 🔤 cordova-plugin-scandocument						
> 🔚 cordova-plugin-twitter						
v 📰 Other Sources						
h ZigBank-Prefix.pch						
111 main.m						
h Bridging-Header.h						
> 🔤 Resources						
~ 🔤 OBDXSiriExtension						
OBDXSiriExtension.entitlements						
🔌 IntentHandler.swift						
💷 Info.plist						
OBDXSinExtensionUI						
+ 🖅 mr 🛛 🕑 E	1 💼					
💽 🔛 💽	29 📃 🧿	🚅 💤 🔊 (7 🐼 🐼	🛛 🔤 🖾 🖉) 🌸 📼 릃	

	🔼 ZigBank	🕼 ZigBank 🔪 📕 OBDX iPhone 11 Pro Max	Finished running ZigBank on OBDX iPhone 11 Pro Ma	ax 🛆 61	+ 🗇
= ⊠ ╦ ♀ ∆ ◈ ♬ □ 目					Đ
 ✓ ŽigBank Nuclei AccountsWidgetExtension △ COVBarcodeScanner △ OBDXExtensionFramework △ OBDXFramework ○ ZigBank ○ ZigBank ○ Staging > Classes > △ Classes 	No Selection				< A >
> > > > > > > → Other Sources > > → Resources > → OBDXSiriExtension > → ObdXinessageExtension > → OBDXWatchApp > → CBDXWatchApp > → CBDXWatchA	Show in Finder Open in Tab Open in New Window Open with External Editor Open As > Show File Inspector		No Editor		
 ✓ ▲ AccountsWidget ✓ ▲ AccountsWidget ▲ WebService ▲ AccountsWidget ⊞ Info ○ MainAccountIntent ⇔ Localizable ▲ MultiFunctionalWidget ▲ AllAccountDisplayWidget 	New File Add Files to "ZigBank" Add Packages Delete New Group New Group without Folder New Group mon Selection				
AccountSummaryWidget ScanToPayWidget	Sort by Name Sort by Type				
ViidgetUtiis Sim Frameworks Sim Products	Find in Selected Groups Source Control				
+ 💬 Filter 🛛 🖸	Project Navigator Help		All Output ≎		

2.12 Scan to Pay from Application Icon

Users can long press on bank's application icon on home screen and click on scan-to-pay option to scan QR and make payments.

1. This option is not RTM controlled hence to remove this option if bank doesn't need it, then open Zigbank project in Xcode, open ZigBank-Info.plist. Delete entry for key – "Home Screen Shortcut Items"



Light (1 item) (3 items)
(2 itoma)
(Sitems)
scan-qr
Scan to Pay
UIApplicationShortcutIconTypeCapturePhoto

2.13 Scan Card using Augmented Reality

Users can scan card and view account details and transactions of the account associated with the card.

1. To use this feature, minimum deployment target should be iOS 13 as this feature is supported IOS 13 and above.

2. Open Zigbank project. Select target, and go top General Tab. Change minimum IOS version to 13.0

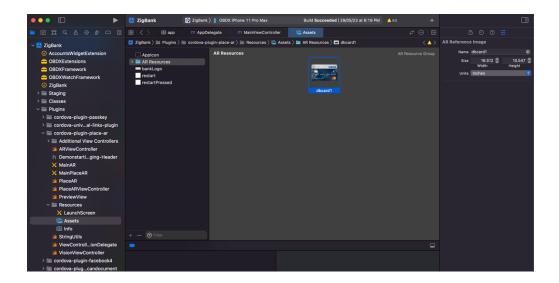
🛃 ZigBank	🕼 Zik 👌 📕 OBDX iPhone 11 Pro Max 🛛 Finished running ZigBank on OBDX iPhone 11 Pro Max 🛛 🔺	+
멾 < > 🛛 🗷 Zigl	Bank 🥏	Ð
🔼 ZigBank		▲ > I
Genera		
PROJECT	Destination SDK	
TARGETS	iOS	
 ZigBank OBDXSiriExtension OBDXSiriExtension 	Mac (Designed for iPad) iOS + - UI	
 ObdxImessageExte. OBDXWatchApp OBDXWatchApp Ext 	iOS 13.0 P +	
AccountsWidgetExt.		
	App Category None	
	Display Name ++	
	Bundle Identifier com.ofss.digx.obdx.zigbank →	

3. Bank needs to add sample card images in the Zigbank project so that OS recognizes it as a valid bank card. Keep bank's available card images ready in jpeg/png format.

4. Open Plugins->"cordova-plugin-place-ar" -> "Resources" -> Assets. Drag and drop sample bank card images inside "AR Resources" folder. Click on the image and open Attributes pane on right panel. Set width of the image in inches to the real world size of the card.



	⊞ < >	elegate MainViewController	🖾 Ass
🗸 🛃 ZigBank	🖪 ZigBank $ angle$ 🖿 Plugins $ angle$ 🔚 cordova-plu	ugin-place-ar $ angle 📷 Resources angle 🖾 Asset$	s $ angle$ 🚞 AR F
 AccountsWidgetExtension OBDXExtensions OBDXFramework OBDXWatchFramework ZigBank Staging 	Applcon AR Resources bankLogo restart restartPressed	AR Resources	
 Classes Plugins cordova-plugin-passkey cordova-unival-links-plugin cordova-plugin-place-ar Additional View Controllers ARViewController Demonstartiging-Header MainAR MainPlaceAR PlaceAR PlaceARViewController PreviewView Resources 			
X LaunchScreen Can Assets ⊞ Info StringUtils	+ — 🕞 Filter		
ViewControllionDelegate			
VisionViewController Cordova-plugin-facebook4 Cordova-plugcandocument Cordova-plugin-twitter C			
+ (= v) Filter	Auto ≎ () (i)	🕞 Filter	





4. "Scan your card" option is not RTM controlled so to remove this option, remove the entry from UI – components – docked-menu – pre-login.json. Remove entry for "scan-your-card". There is no need to increase the minimum deployment target to 13.0 if you do not need this feature to be enabled for the users.

2.14 Passkey (Passwordless login)

Passkey is passwordless login is introduced in latest IOS ecosystem (iOS devices, Safari) and Android devices and on latest browsers.which allows users to login securely without entering username and password.

IOS passkeys are shared in iCloud keychain. Hence iCloud Keychain should be enabled by the users on their apple ID on iOS device.

System requirements: Attached is the compatibility chart for passkeys to work:

Browsers should also be latest versions supporting WebAuthn protocols.

Platform Authenticate	ors					
Platform authenticators are built into your o with Windows Hello or Face ID.	devices like computer	s and smartphone. Th	ney can often be unloc	ked using biometrics	, a finger print with To	ouch ID, or your face
	Android 7+	iOS 14.5+	Windows 10 (with Windows Hello)	macOS Catalina	macOS Big Sur	Desktop Linux
Chrome	Yes	Yes	Yes	Yes	Yes	-
Safari	N/A		N/A	No		N/A
Firefox	No		Yes	No	No	
Brave	No		Yes	Yes	Yes	
Edge	No					
Internet Explorer	N/A	N/A	No	N/A	N/A	N/A

To disable this option – By doing this, user will not be able to register for passkey and also will not be able to login using passkey. Follow below steps:

a. Remove RTM access from Client Servicing -> Authentication - > Passkey Setup for Mobile Application/Mobile (Responsive)/Internet touch points

Passkey Setup				
	1	_		

b. Set this flag in channel-framework-js-configurations-config..js to false thirdPartyAPIs -> passkey -> required -> false

Server-Side Setup:



1. Update the application-prod.properties file

Set the "Relying Part" in authn.hostname field

Set the origin in authn.origin field

2. Note – Relying partId is the domain name if the website to which credentials will be associated. (Eg google.com, example.com etc)

Relying party origin is the relying party of website prefixed with protocol without the port.

(E,g, https://google.com, https://example.com)

- 1. Hosting AASA file (Apple-app-site-association) on server.
 - a. AASA Apple App Site Association fille which IOS installs on the device when application is installed. This AASA file is hosted on our server for testing and then apple stores that file to its APPLE CDN when application is released on Appstore.
 - b. This file is fetched by Apple after a duration of 5 days. So, any new update in the file takes 5 days to gets reflected in the application. In development mode though, every application installation, the AASA file is re-fetched on device.
 - c. If Bank doesn't want to set this up, do not follow below steps to setup AASA file. Also, open Zigbank project in Xcode, Select Zigbank target -> Signing Capabilities -> Delete Associated domain.

If bank wants to setup, follow below steps:

There are two parts for the setup – Server side and application side.

Server-Side Setup:

1. Create a json file and save it with name "apple-app-site-association" (without any extension not even ". json" extension is to be added). Copy the content from below. Update "appID", "appIDs", and "apps" value in below JSON to that of bank's appID and bundleID.

```
{
    "webcredentials":{
        "apps":[
            "3NXJ972C93.com.ofss.digx.obdx.zigbank"
    ]
    }
}
```

- 2. This file needs to be on https server with valid SSL certificate.
- Update properties in digx-admin.war --> <u>com.ofss.digx.app.sms.service.jar</u> --> <u>resources/lphoneApplink.properties</u>

Below are the sample values for a single application supporting deeplink. Need tp update banks' teamID and bundle ID.



```
numberofapps=1
appid0=Q3784B628L.com.ofss.digx.obdx.zigbank <Add bank's
teamID.bundleID>
paths0=*
```

4. Need to change host and port in Obdx.conf

ProxyPass "/.well-known" "http://100.76.157.55:7003/digx-admin/sms/v1/.well-known"

ProxyPassReverse "/.well-known" "http://100.76.157.55:7003/digx-admin/sms/v1/.well-known"

5. After the setup is done, this AASA file must be accessible on mobile browser with this url. There should not by any redirects for accessing this file.

https://<host>/.well-known/apple-app-site-association

6. Update the application-prod.properties file

Set the "Relying Part" in authn.hostname field Set the origin in authn.origin field

Note – Relying partId is the domain name of the website to which credentials will be associated. (Eg google.com, example.com etc)

Relying party origin is the relying party of website prefixed with protocol without the port (E,g, <u>https://google.com</u>, <u>https://example.com</u>)

Application side.setup:

1. Open developer portal and enable Associated domain for your appID

Apple Pay Payment Processing 🕕	Configure
Associated Domains ()	
AutoFill Credential Provider	
ClassKit 🕕	
Communication Notifications	
Custom Network Protocol 🕕	

2. Open Zigbank.workspace- Select Zigbank target. Go to Signing and Capabilities – In associated domain section, update the url with bank's host for webcredentials key

Example. Replace ofss-mum-

2524.snbomprshared1.gbucdsint02bom.oraclevcn.com?mode=developer with banks host where the AASA file is hosted. Port and "https" should not be added here.





Pease note – in webcredentials value "?mode=developer" is only for development mode and testing on testflight. Hence for development with this mode, we can test only with developer profile.

Once app is ready for distribution to appStore, ?mode=developer should be removed while archiving for app store release.

How to test on device in development/testing phase.

- a. Developer mode should be enabled on IOS device
- b. iCloud keychain should be enabled for appleID configured on the device. Settings profile iCloud Passwords and Keychains Sync this iPhone
- c. Go to Settings -> Passwords -> Password Option -> Check Auto ill option is enabled

2.15 <u>Deeplinking - To open reset password, claim money</u> <u>links with the application</u>

- d. Deeplinking in IOS works with https URL and a valid AASA configuration. Deeplinking keeps the application flow within the application when user clicks on bank's reset-password or claim-money link on email or message.
- e. AASA- Apple App Site Association fille which IOS installs on the device when application is installed. This AASA file is hosted on our server for testing and then apple stores that file to its APPLE CDN when application is released on Appstore.
- f. This file is fetched by Apple after a duration of 5 days. So, any new update in the file takes 5 days to gets reflected in the application. In development mode though, every application installation, the AASA file is re-fetched on device.
- g. If Bank doesn't want to set this up, do not follow below steps to setup AASA file. Also open Zigbank project in Xcode, Select Zigbank target -> Signing Capabilities -> Delete Associated domain

If bank wants to setup, follow below steps

There are two parts for the setup – Server side and application side.

Server Side Setup:



 Create a json file and save it with name "apple-app-site-association" (without any extension not even .json extension is to be added). Copy the content from below. Update "appID", "appIDs", and "apps" value in below JSON to that of bank's appID and bundleID.

```
"applinks":{
  "apps":[
 ],
  "details":[
   {
     "appID":"3NXJ972C93.com.ofss.digx.obdx.zigbank",
     "appIDs":[
       "3NXJ972C93.com.ofss.digx.obdx.zigbank"
     ],
     "components":[
       {
         "comment":"Match",
         "/":"*"
       }
     ],
     "paths":[
       "*"
     ]
   }
 ]
},
"activitycontinuation":{
  "apps":[
   "3NXJ972C93.com.ofss.digx.obdx.zigbank"
```

{



-]
 }
- 8. This file needs to be on https server with valid SSL certificate,
- Update properties in digx-admin.war --> <u>com.ofss.digx.app.sms.service.jar</u> --> resources/lphoneApplink.properties

Below are the sample values for a single application supporting deeplink. Need to update banks' teamID and bundle ID.

```
numberofapps=1
appid0=Q3784B628L.com.ofss.digx.obdx.zigbank <Add bank's
teamID.bundleID>
paths0=*
```

10. Need to change host and port in Obdx.conf

ProxyPass "/.well-known" "http://100.76.157.55:7003/digx-admin/sms/v1/.well-known"

ProxyPassReverse "/.well-known" "http://100.76.157.55:7003/digx-admin/sms/v1/.well-known"

11. After the setup is done, this AASA file must be accessible on mobile browser with this URL. There should not by any redirects for accessing this file.

https://<host>/.well-known/apple-app-site-association

Application side setup:

3. Open developer portal and enable Associated domain for your appID

Apple Pay Payment Processing ①	Configure	
Associated Domains ①		
AutoFill Credential Provider 🕕		
ClassKit 🕕		
Communication Notifications		
Custom Network Protocol		

 Open Zigbank.workspace- Select Zigbank target. Go to Signing and Capabilities – In associated domain section, update the URL with bank's host for activitycontinuation and applinks



Example. Replace ofss-mum-

2524.snbomprshared1.gbucdsint02bom.oraclevcn.com?mode=developer with banks host where the AASA file is hosted. No port and https to be added here.

Pease note – in applinks and activitycontinuation "?mode=developer" is only for development mode and testing on testflight. Hence for development with this mode, we can test only with developer profile.

Once app is ready for distribution to appStore, ?mode=developer should be removed.

		Gen	eral	Signing &	Capabilities	Resour	ce Tags	Info	Build Settings	Build Phases	Build Rules	
	+ Capa	bility	All	Debug	Release							
		√ ios			Provisionin Signing Co	Team	Priyam Sl	hah	Dev r: Priyam Shah (Q:) 6	
" 1UI ! t	♥ (3)	■ App	Group	S	Арг	Groups	ਂ group + ਟੈ	p.com.of	fss.digx.obdx.zigb	ank		
	~ (Ass	ociated	l Domains		Domains	applin	ks:ofss-r	lation:ofss-mum-2 mum-2524.snbom enfee_mum-2524	nprshared1		
	v 0	Kev	chain S	haring								ណិ

5. Update the key_server_url and server_url in index.html to https URL in the Zigbank project

Device Side setup for development and testing:

- 1. To test on device, Developer mode should be enabled. Additionally, go to Phone Settings Developer mode- > Enable "Associated domain Development".
- 2. With all above setup, install the application on the device. Please not while installing the device must be connected to network in which the AASA file is accessible.
- Under Settings-Developer Option Go to Diagnostics > Add your server url like below and check if device can identify this link as deeplink. If all setup is correct and AASA file is successfully installed on device, this will display a valid URL as below

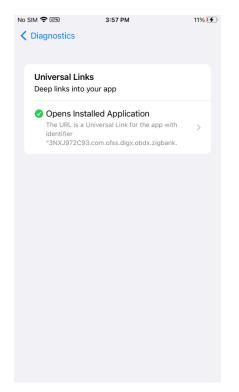
Example: In screenshot below, we have added our server URL which is also the URL where AASA file is hosted.

https://ofss-mum-2524.snbomprshared1.gbucdsint02bom.oraclevcn.com/



No S	SIM 🗢 VPN	🔒 3:57 PM	11% 🗲
<	Developer	Diagnostics	
	URL		
	https://ofss-r	mum-2524.snbom	orshared1
		d will be analyzed for co	ompatibility with

If we see below message, then deeplink can be tested on this device

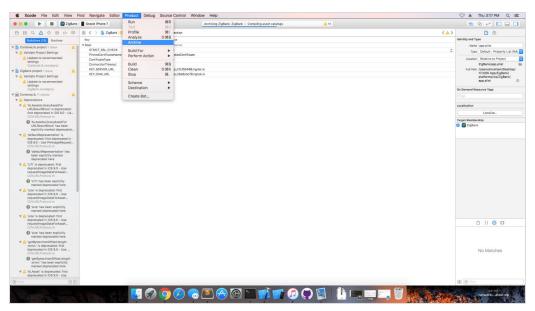




- 4. Send the link for reset-password/claim money in mail or copy the link and save the link in phone's notepad. The link should be a https URL where the AASA is hosted and should not contain port.
- 5. Long press on the link and you must see "Open In Zigbank App" option. Clicking the option page opens in the application.



3. Archive and Export



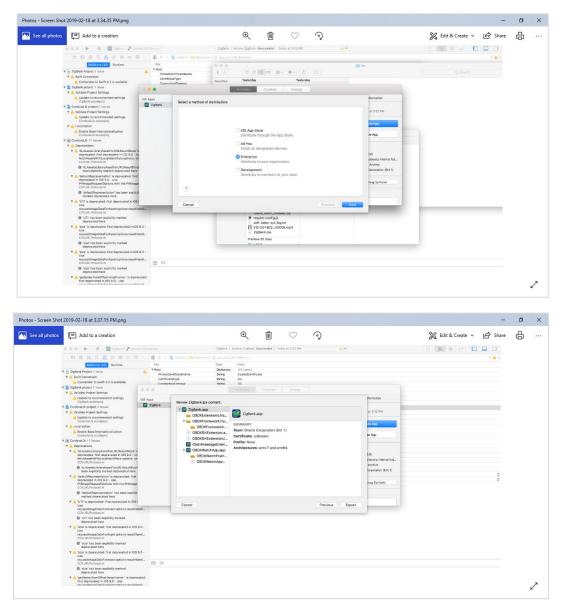
a. In the Menu bar click on Product -> Archive (Select Generic iOS Device)

b. After archiving has successfully completed. Following popup will appear

Add to a creation			Ð	Î	\heartsuit	ୢ		🕅 Edit & Create 👻	🖻 Sha
000	ric IGS Device		ZgBatk Archive ZgBark	Succeeded To	day at 3-32 PM		▲ 40	11 📄 👁 🔿 🗖	
	8 < >	🛓 Zigliank 🕽 💼 Resource) 🗟 app plot) No Selection						< 4 >
Bolids ma (40) Runtime	Key		Type Value						
ZigBank Project 1 issue V Swift Conversion A Conversion to Swift 4.2 is available	Certifica	ertificateName teType ionTimecot	Dictionary (24 items) String trustedCerti String cer String 10	ficate					
🔻 🏩 ZigBank project 1 issue		COLUMNES 2	Archives	Crashes	Energy				
Validate Project Settings Update to recommended settings		Name	Creation		 Version 		Archive Information		
ZigBank.xcodeproj	IOS Apps	2 ZigBank		2019 at 3:32 PM	100(10.0)		A CHARTEN AND		
ContovaLib project 2 issues Validate Project Settings		D ZigBank	18-Feb-	2019 at 3:03 PM	1.0.0 (1.0.0)		ZigBank 18-Feb-2019 at 3:32 PM		
Update to recommended settings		ZigBank	18-Feb-	2019 at 12:58 PM	1.0.0 (1.0.0)		a contraction and contraction		
Contoval. (b. vc odeproj							Distribute App		
A Localization A Enable Base Internationalization CondovaLibuscodeproj							Validate App		
▼ m CordovaLib 11 issues									
A Deprecations ALAssets_brankAssetForURLResultBlock*k							Details		
deprecated: first deprecated in IOS 9.0 - Up fetchAssetsWithLocal dentifiers options: on							Version 1.0.0 (1.0.0)		
COVURLProtocol.m							Identifier comoraclecorp.internal.fod Type IOS App Archive		
WLAssetsLibraryAssetForURLResultBlock been explicitly marked deprecated here							Team Oracle Corporation (Ent 1)		
V A 'defaultRepresentation' is deprecated; first									
deprecated in IOS 9.0 - Use PHimageRequestOptions with the PHimage CDVURLProtocoLm							Download Debug Symbols		
'defaultRepresentation' has been explicit marked deprecated here							Description		
VTI's deprecated: first deprecated in IOS		S Filter	3 a	rchives					
Use requestimageOataForAsset.options.resultHo CDVURLProtocol.m	rd.,								
 'UTI' has been explicitly marked deprecated here 									
v A size' is deprecated: first deprecated in IOS lise	9.0 -								
requestimageOataForAsset:options:resultHa CDVURLProtocol.m	rd								
 'size' has been explicitly marked deprecated here 									
V A 'size' is deprecated: first deprecated in IOS Use	9.0 -								
requestimageOataForAssetxoptions/resultHa CDVURLProtocol.m Sizer has been explicitly marked	rd								
deprecated here									
V A 'getBytes:fromOffset.iergth:error:' is depre- first deprecated in IOS 9.0 - Use moventmane/DataEndset writers resulting									



c. Click on Distribute App in the right pane of the popup -> select the Method of Distribution -> Choose Provisioning Profile according to the method of distribution -> select Next -> Review the contents and click on Export -> Export and generate the .ipa





t 2019-02-18 at 3.37.41 PM.png						
Add to a creation		€ 🛍 <	ightarrow $ ightarrow$		😹 Edit & Create 👻	🖻 Share
🗸 🔿 🖉 🕨 📄 🖉 🖉 Ziglank) 🅕 Gere	tic IOS Device Zig8	Iank Archive ZigBank: Succeeded Today at 3:3	32 PM 🛕 40		()] ≣ © ()	
	😥 🄇 👌 📄 ZigBank) 🛅 Resources) 📄 app					< 🗛 >
Buildtime (40) Burtime	Key Type					
ZigBerk Project 1 issue		fionary (24 items)				
T A Swift Conversion	PinnedCertificateName Stri					
Conversion to Swift 4.2 is svallable	CertificateType Stri ConnectionTimeout Stri					
ZigBank project 1 issue	Construction areas No					
Validate Project Settings		Archives Crashes En	nergy			
🛕 Update to recommended settings	IOS Apps			vormation		
ZigBank.xcodeproj	ZigBank Review ZigBank.lpa content:	Export As: ZigBank 2019-02-18 15-37-30	<u> </u>			
Coroovellin project 2 issues Validate Project Settings	V 🔁 ZigBank.app	Tags:		at 3:32 PM		
Update to recommended settings	OBDXExtensions.f	Where: cordova-plugin-digx-fetch	R			
CordoveLib.xcodeproj	v 🧰 OBDXFramework.f	the second property and		to App		
▼ △ Localization	OBDXFramework		Export			
Enable Base Internationalization Cordoval.ib.xcodeoroi	OBDXSiriExtension			te App		
(a) Cordovel. Ib 11 Issues	OBDXSiriExtension	U Brofiler None				
▼ △ Deprecations	ObdxImessageExt	m				
▼ ▲ 'ALAssetsLibraryAssetForURLResultBlock' is	v 🔁 OBDXWatchApp.a	pp		3.0)		
deprecated: first deprecated in IOS 9.0 - Ur fetchAssetsWithLocalIdentifiers:options: on	 OBDXWatchFra 			clecorp.internal.fcd		
CDVURLProtocol.m	(t) OBDXWatchApp	tas		Archive		
%LAssetsLibraryAssetForURLResultBlock been explicitly marked deprecated here				Sorporation (Ent.1)		
V A 'defaultRepresentation' is deprecated: first						
deprecated in IOS 9.0 - Use PHImageRequestOptions with the PHImage				ibug Symbols		
CDVURLPretocol.m						
 'default/Representation' has been explicit marked deprecated here 						
UTT is deprecated: first deprecated in iOS :						
Use requestimageDataForAsset.options.resultHa	Cancel		Previous Expo	ert		
CDVURLProtocol.m						
'UTI' has been explicitly marked						
deprecated here						
Use						
requestimageDataForAsset:options:resultHa CDVURLProtocol.m	ndL.					
'size' has been explicitly marked deprecated here						
▼ 🛕 'size' is deprecated: First deprecated in iOS 6	NO -					
Use requestimageDataForAsset:options:resultHa	ndl					
CEVURLProtocolum						
 'size' has been explicitly marked deprecated here 						
V A 'getBytes:fromOffset:length:error:' is depred	ated:					
first deprecated in IOS 9.0 - Use						

To run the application on simulator copy & replace 4 frameworks (.framework files) from /simulator to zigbank/platforms/ios/

Home



4. OBDX Authenticator Application

4.1 Authenticator UI (Follow any one step below)

4.1.1 Using built UI

For TOKEN-BASED - Unzip dist.tar.gz directory from OBDX_Patch_Mobile\authenticator\TOKEN-BASED

For Non-OAM - Unzip dist.tar.gz directory from OBDX_Patch_Mobile\authenticator\NON-OAM

For OAM - Unzip dist.tar.gz directory from OBDX_Patch_Mobile\authenticator\OAM

4.1.2 **Building UI manually**

1. Extract authenticator_ui.tar.gz from OBDX_Patch_Mobile\authenticator\unbuilt_ui.

The folder structure is as shown :

			📃 authen	ticator_ui		
< >		· · · ·		Q s	earch	
Favourites AirDrop AirDrop Recents A pplications Desktop Documents Documents Cotloud Drive Android Correct Disc Tags Red Orange Yellow	4		authentica	tor_ui.tar.gzbuild tor_ui.tar.gz components components components framework mages non-oam pages resources	2 2 2 2 2 2 2 2	

- d. OAM Based Authentication
 - 1. Open Terminal at "_build" level.
 - 2. Run following command :

```
sudo npm install -g grunt-cli
sudo npm install
node render-requirejs/render-requirejs.js
grunt authenticator --verbose
```

3. After running above commands and getting result as "*Done, without errors.*" a new folder will be created at "_build" level with name as "dist".



- e. NON-OAM Based Authentication
 - 1. Copy "non-oam/login" folder and Replace it at location "components/modules/" [in ui folder] location. This will replace existing "login" folder.

000				🚞 module	s						
< >		\$~[1]									
Favorites	Today	Previous 7 Days		Previous 7 Days		Previous 7 Days		Previous 7 Days		Previous 7 Days	
Downloads mobile AppEcations Desktop Desktop Socuments do oud oud wrises Macintrach HD resource	service	B.	 android os ui 	6 6	build components css framework images non-oarn pages resources		base-components ► modules ►		authenticator-pin hotp login otp paysecure-pin totp		
Remote Disc Tags Blue Red Gray Green Orange All Tags	u i					A fold	ler named * to replace ?	login" already exists in this locat with the one you're copying? Stop	tion. Do		

- 2. Open Terminal at "_build" level.
- 3. Run following command :

```
sudo npm install -g grunt-cli
sudo npm install
node render-requirejs/render-requirejs.js
grunt authenticator --verbose
```

4. After running above commands and getting result as "*Done, without errors.*" a new folder will be created at "_build" folder level with name as "dist".

	📄 _bui	ld — -bash — 80×24							
"Running "add-cordova" task									
Reading/dist/framework/js/pages/require-config.jsOK									
Writing/dist/framework/js/pages/require-config.jsOK									
Done, without errors.									
5									
Execution Time (2017-07-24	15:04:0	8 UTC+5:30)							
loading tasks	10.2s	49%							
clean:preBuildCleanUp	11ms	0%							
copy:main	6.4s	31%							
sass:dist	12ms	0%							
htmlmin:min	98ms	0%							
「 inlinecss:main	3ms	0%							
uglify:updatedBuild	1.7s	8%							
string-replaeplacements	25ms	0%							
require	1ms	0%							
requirejs:compile	2.2s	11%							
clean:postBuildCleanUp	151ms	1%							
authenticator-tasks	7ms	0%							
add-cordova	7ms	0%							
Total 20.9s									
		_							
dhcp-in-ofss-10-180-59-57:_	build o	bdxuser\$							



• • •				🛅 dist					
< >		☆ → ⊡						Q, Search	
Favorites	Today	Previous 7 Days		Today		Today	Today		
Downloads A Applications Desktop Documents the shubham Devices Macintosh HD	mobile Previous 7 Days app authentication chatbot db oud policies resource ui	authenticator service	Þ	ul Previous 7 Days android ios	Þ	 build dist Previous 7 Days components coss framework images non-oam pages resources 		8 8 8 8 8	
 Remote Disc Tags Blue Red Gray Green Orange 									
All Tags		11		1	1	1	11	11	

- f. Token Based Authentication Mechanism
 - a. Copy the "*token-based/login*" folder and replace it at the "components/modules/" [in ui folder] location. This will replace the existing the login folder.
 - b. Open the terminal at " build" level.
 - c. Run the following commands:

```
sudo npm install -g grunt-cli
sudo npm install
node render-requirejs/render-requirejs.js
grunt authenticator --verbose
```

d. After running above commands and getting result as "*Done, without errors.*" A new folder will be created at "_build" folder level with name as "dist".

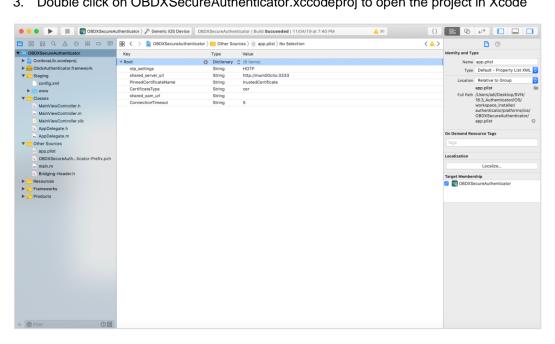
4.2 Authenticator Application Workspace Setup

- 1. Unzip and navigate to iOS workspace as shipped in installer.
- 2. Open the workspace as shown below and find and replace the following generated UI files from "ui/dist" folder :
 - > components
 - > css
 - > framework
 - images
 - pages
 - resources



			W		
< >				Q Search	
Avourties A Aphloap A Aphloations Desktop Documents C Documents Android ≜ Android ≜ Red Red Grange Yellow Bue Desktop	 OBDXSecure2019-05-04 workspace_installer workspace_installer.zip 	 platforms 	ios	Cordoval, bie components Cordoval, jen Cordoval, jen	

3. Double click on OBDXSecureAuthenticator.xccodeproj to open the project in Xcode



Update HOTP or TOTP in above screenshots and update the server URL.

- 4. The application can be archived using steps in Section 4.3 for running on device
- To run the application on simulator, copy & replace the framework from 5. simulator/ObdxAuthenticator.framework to /authenticator/platforms/ios/



6. Adding bundle identifiers:

Bundle identifiers needs to be added in the Info.plist of each the frameworks along with the Signing Capabilities tab in Xcode. For example, let us assume that the bundle identifier used is abc.def.ghi.jkl. The steps to be followed are,

1.Right click on ObdxAuthenticator.framework(in Xcode's Project Navigator) -> Show in Finder

2. When the Finder directory opens then right click ObdxAuthenticator.framework -> Show package contents.

3. Open Info.plist and set Bundle identifier as abc.def.ghi.jkl.ObdxAuthenticator

4.Bundle identifier for Cordova.framework : abc.def.ghi.jkl.Cordova

4.3 **Building Authenticator Application**

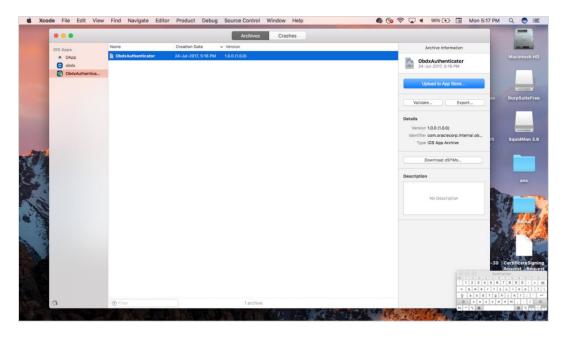
1. Set the simulator to Generic iOS device. Then go to Product -> Archive.

🕒 🕒 🕨 🖉 ObdxAuti	henticator) 🎢 Generic IOS De	Run Test	#R 36U	
	88 < > 🛅 ObdxAuther	Profile	80	
DbdxAuthenticator			☆ 業B	
V O Settings.bundle	PROJECT	Archive		Combined Levels + Q-
en.lproj Root.plist	CbdxAuthenticator	Build For Perform Action		
🔻 📒 Staging	TARGETS	Build	ЖB	CbdxAuthenticator
Config.xml	C ObdxAuthenticator		0°%K	Copy C
www CordovaLib.xcodeproj		Stop	36.	
Classes		Scheme	•	1775 B
Plugins		Destination		
Other Sources Resources		Create Bot		ObdxAuthenticator
app.plist		De	ebug	@executable_path/Frameworks
trustedCertificate.cer			elease	 State and the state of the stat
▶ config		▼ Packaging		
ObdxAuthenticator-Info.plist		Setting		ObdxAuthenticator
Frameworks		Info.plist File		ObdxAuthenticator/ObdxAuthenticator-Info.plist
Products		Product Bundle Iden Product Name	ntifier	com.oraclecorp.internal.obdxauthenticator OBDX Secure
		Product Name		
		V Search Paths		
		Setting		ObdxAuthenticator
		Always Search User	Paths	No \$
	+ - 🕲 Filter			
				O O O Australian
				9 a a d f g h j k i
				In ^ X 8 8 X

2. Choose your Archive and then click "Export". .ipa file will be generated



OBDX Authenticator Application



4.4 Using SSL in Authenticator App:

Follow below stepsto setup SSL in Authenticator application:

Open Authentictaor application project - > app.plist. Add below changes

- 1. **shared_server_url_url** = <bank's https url>
- 2. **PinnedUrl** Item 0 replace @@PINNEDURL1 with your https url (without port)
- 3. Open bank's https site on browser, click on the lock icon and "Show certificate", Select the certificate icon and Drag and drop the certificate from Safari to local machine. Rename to certificate.cer.
- pen Authenticator application, right lick on Resources folder -> Add Files to Authenticator" -> Select the downloaded certificate -> Select "Copy Items if Needed" -> And target selected as below:
- PinnedCertificateName Item 0 replace @@trustedCertificate1 with certificate name. Example your certificate name added to your Project is certificate.cer, then @@trustedCertificate1 should be replaced with "certificate"
- 6. Server_type OBDXTOKEN
- 7. DOMAIN_BASED_CATEGORIZATION YES



Home

