**IONIC SALESFORCE MOBILE OFFLINE STORAGE POC**

**Deployment Guide**

Revision History

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| --- | --- | --- |
| **Author** | **Revision Number** | **Date** |
| TCSASSEMBLER | 1.0 | 02/05/2016 |
| TCSCODER | 1.1 | 02/15/2016 |
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# Organization of Submission

* docs/ DeploymentGuide-ionic.doc – this file, the deployment guide of this app
* ionic – the source code of the ionic app
* README.md – the read me file
* offline-app-demonstration.m4v – the original demonstration video file (previous version)
* signature-demonstration.mov – signature functionality demonstration
* noconnection-demonstration.mov – demonstration of offline/online events

# Application Setup

* nodejs v5.0+ (with npm) installed <https://nodejs.org/>
* cordova 6.0.0 (***npm install cordova***)
* ionic v1.7.14 (***npm install ionic***)
* please refer to <http://cordova.apache.org/docs/en/5.1.1/guide/platforms/android/index.html> and <http://cordova.apache.org/docs/en/5.1.1/guide/platforms/ios/index.html> to install iOS and android required development platform dependencies
* run commands under {ROOT}/ionic directory

***npm install***

***ionic state reset***

***ionic run ios -target="iPad-Air"***

Note: Currently android only works if opened using Android Studio

# Configuration

Check salesforce SDK configure values in file {ROOT}/ionic/www/bootconfig.json.

|  |  |  |
| --- | --- | --- |
| Name | Description | Sample |
| remoteAccessConsumerKey | Remote access consume key of this app | 3MVG91ftikjGaMd8N0ghDU6FPIenz8JX0z3SQwW47ScwY9cJAZfMnNLxQmRS\_t4shwilTcwp7kYsK6AuYB35m |
| oauthRedirectURI | Oauth redirect URI | testsfdc:///mobilesdk/detect/oauth/done |
| oauthScopes | Oauth scopes | ["web", "api"] |
| isLocal | Indicate whether this is a hybrid local app | true |
| startPage | The start page | Index.html |
| errorPage | The error page | error.html |

Check app configure values in file {ROOT}/ionic/www/app/config.js.

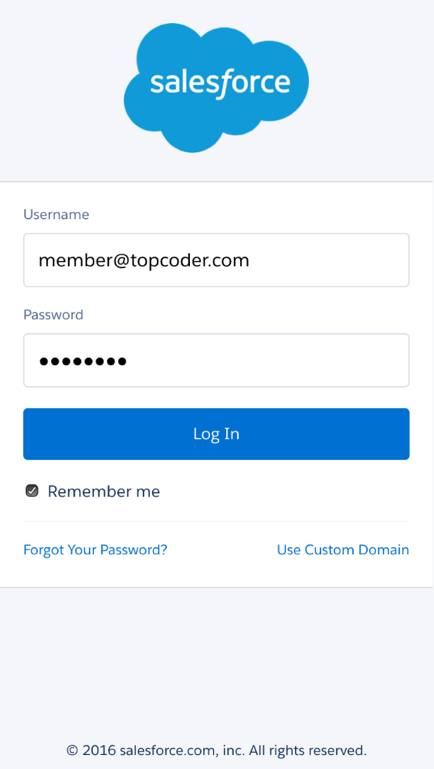
|  |  |  |
| --- | --- | --- |
| Name | Description | Sample |
| soups | The soup definitions in local DB | {contact, product, request, sync} |
| syncOptions | The sync options | {mergeMode:'LEAVE\_IF\_CHANGED', syncInterval: 5 \* 60 \* 1000, withoutFieldsWhenSyncUp: ['Id', 'OwnerId', 'LastModifiedDate'] } |
| debug | Debug mode | true |
| toastDuration | Toast display duration in ms | 2000 |
| requestStatuses | The statuses of sample request | ['Requested', 'Scheduled', 'Delivered'] |
| dateFormat | The date format in local DB | yyyy-MM-ddTHH:mm:ss.sss |

Each soup has the following configuration:

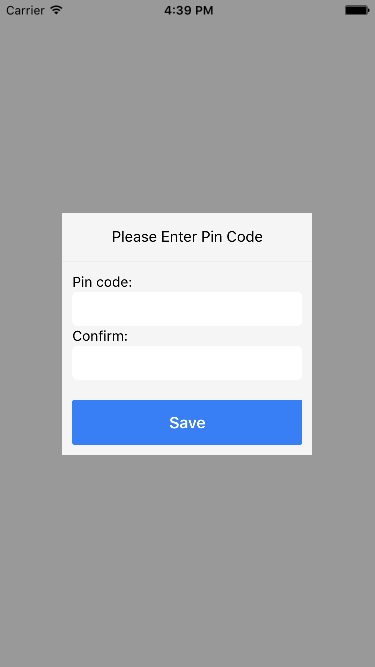
|  |  |
| --- | --- |
| name | The soup name |
| fields | The soup fields to be synchronized from server |
| indexes | Describes what you’re searching for; for example, a name, account number, or date. |
| readOnly | Only allow syncDown |
| writeOnly | Only allow syncUp |

# Verification

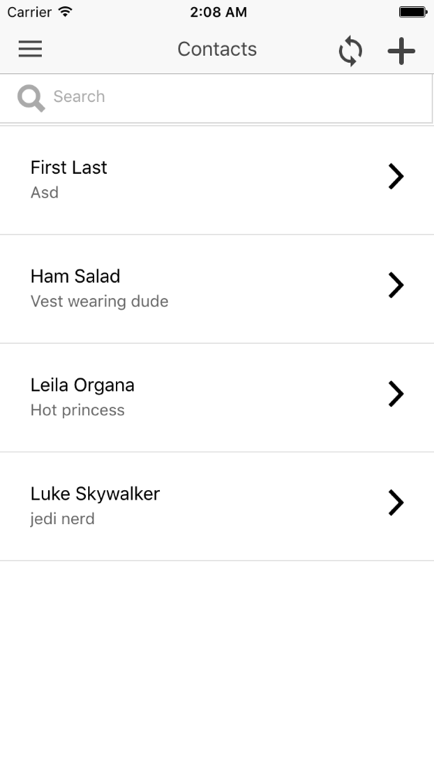
Login as [member@topcoder.com](mailto:member@topcoder.com) / t0pc0d3r or [guest@topcoder.com](mailto:guest@topcoder.com) / t0pc0d3r and Click “Allow” button



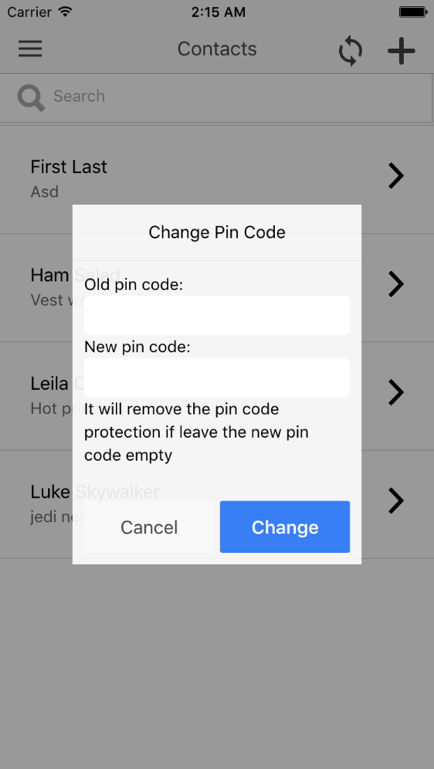
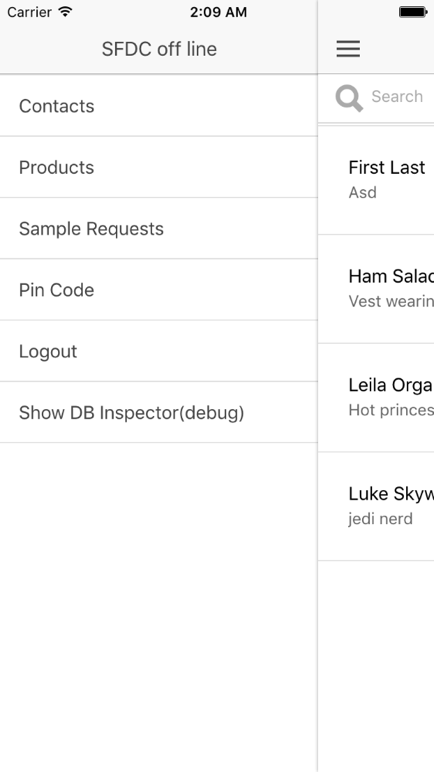
After login it will ask for the pin code:



It will redirect to contact list page, and the data will auto download from server when entering this app first time.

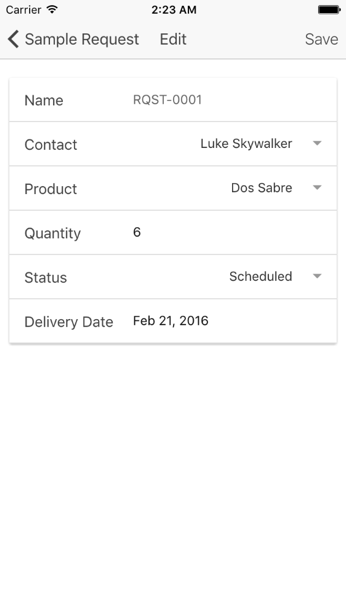
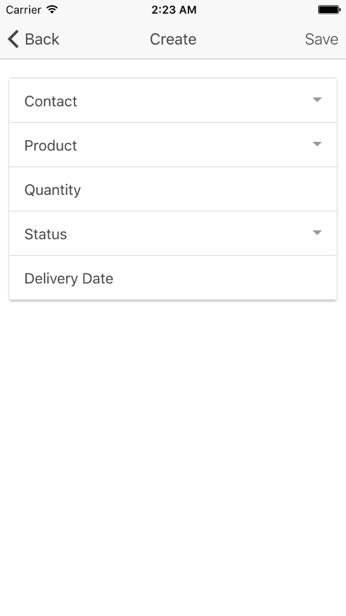
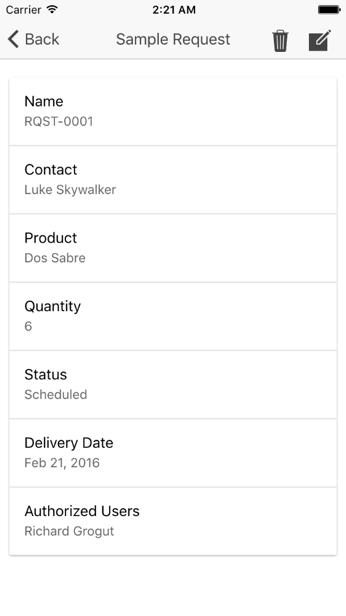
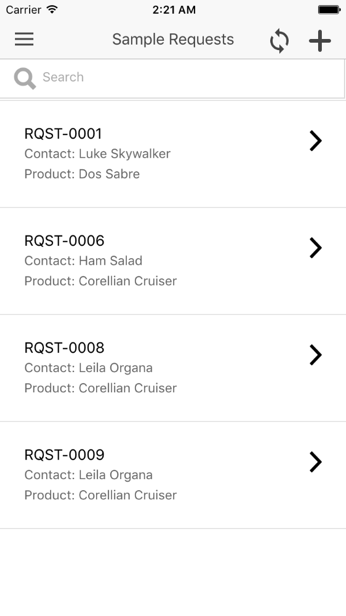


Click left side menu, it can switch between contact, product and sample request page, set pin code, logout or show DB Inspector(used for debug). Click “Pin Code” to show popup a dialog to modify it.

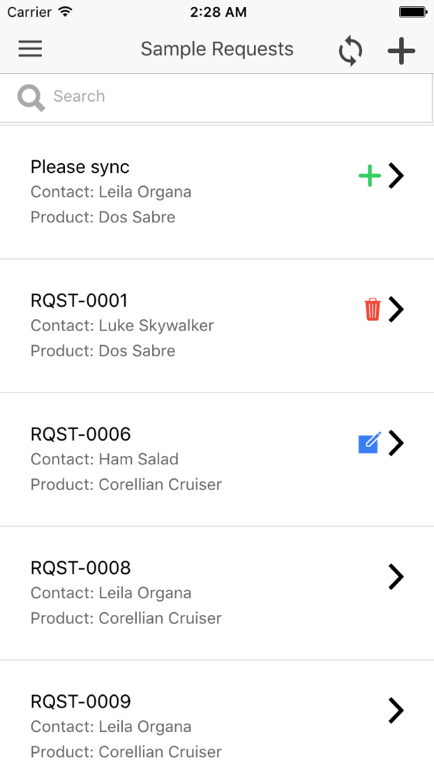


If application goes offline it will ask for pin code.

The pages of contact, product and sample request are very similar which all include 4 type pages: list view, detail view, create and edit page.



After the record created, deleted or updated, it will sync all data automatically. If the device is offline, it will show some icons in list page to indicate the state of records.



Click sync icon will sync the all data with server. Please note that products and sample request supports syncing data bi-directional. The contact just sync data download from server, the sample request first sync modified data upload to server, then sync data download from server.

The merge mode of sync is “LEAVE\_IF\_CHANGED”, so it will not overwrite the updated data.

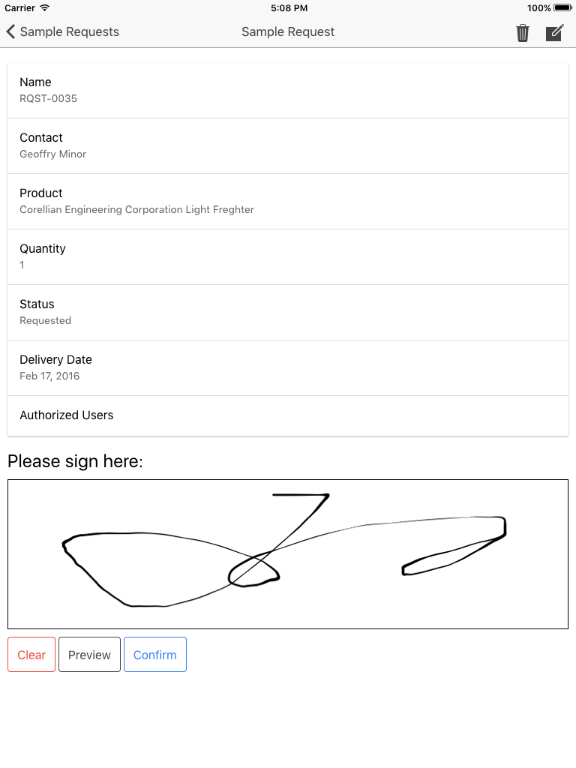
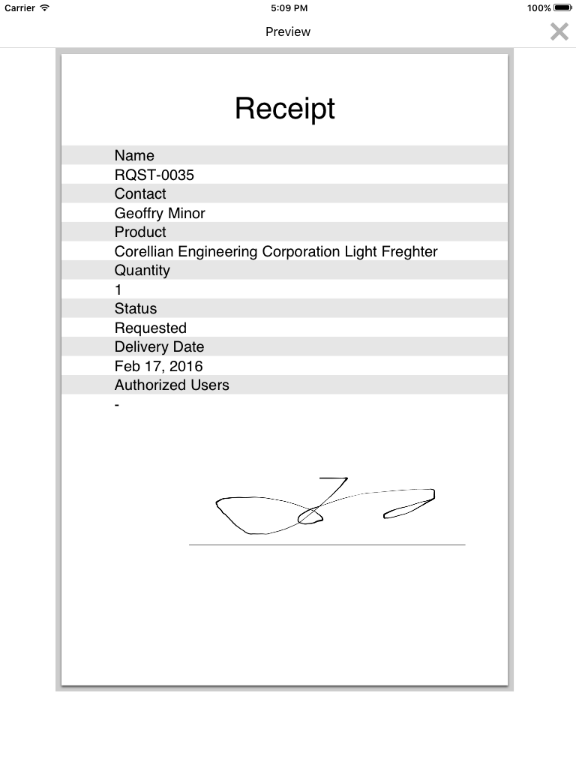
**Signature flow**

In the sample request view page you will find the signature canvas. User can use the finger to create a new signature.

Right now no Status or Delivery Date filter is being applied (can be easily added in the future).

Actions available are:

1. Clear: clear signature canvas
2. Preview: Preview: Open a preview page of the receipt
3. Confirm: Save the receipt locally and if online syncs to salesforce Org. If offline nothing happens at this moment. When device is back online, all receipts not synchronized are sync'ed up to salesforce Org.

File are saved with the name ‘Receipt.pdf’.



**Extra**

a) When creating or editing a sample request an error was shown that the Products could not be found in local cache.

Steps to reproduce (original application):

- Open app for the first time

- Go to sample request in left menu

To avoid such error the products must be selected in left menu before sample requests.

Fix: All soups are created and synchronized during app startup (sync only happens if online). Sync button always synchronizes all soups.

b) Receipt Preview