VA Kidney Native iPhone App Build Screen Functionality Challenge #2 - Deployment Guide

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**Revision History**

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| **Author** | **Revision Number** | **Date** |
| TCCODER | 1.0 | Dec 25, 2017 |
| TCCODER | 1.1 | Feb 04, 2018 |
| TCCODER | 1.2 | Mar 04, 2018 |
| TCCODER | 1.3 | Apr 01, 2018 |

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# Deployment Instructions

## 1. Deployment Dependencies

Before performing a deployment, it is assumed that the following have been set up:

* Xcode 9.2+
* OS X 10.12.6 or above
* iOS SDK 11 or above
* iPhone device or simulator with iOS 10+

## 2. Organization of Submission

* *src* – this directory contains the source code
* *src/VAKidneyNutrition.xcworkspace* – Xcode workspace to open.
* *docs* – this directory contains the documents for this application, including this deployment guide

## 3. 3rd party Libraries

**SwiftyJSON** - <https://github.com/SwiftyJSON/SwiftyJSON>

SwiftyJSON makes it easy to deal with JSON data in Swift. Version: 4.0.0

**Charts** - <https://github.com/danielgindi/Charts>

Version: 3.0.5

All libraries are configured in *src/Podfile*

## 4. Configuration

### 4.1. VAKidneyNutrition/Supporting Files/configuration.plist

You can access *configuration.plist* in Xcode in *VAKidneyNutrition.xcodeproj* project - *Supporing Files/configuration.plist*

**configuration.plist** file provides the following options:

* **ndbApiBaseUrl** - NDB base URL for API (see [USDA nutrient database](https://ndb.nal.usda.gov/ndb/doc/apilist/API-FOOD-REPORTV2.md))
* **ndbApiKey** - NDB API key (see [USDA nutrient database](https://ndb.nal.usda.gov/ndb/doc/apilist/API-FOOD-REPORTV2.md))
* **fdaApiBaseUrl** - FDA base URL for API (see [FDA Drug Interaction and Product Labeling Database](https://open.fda.gov/drug/))
* **fdaApiKey** - FDA API key (see [FDA Drug Interaction and Product Labeling Database](https://open.fda.gov/drug/))

### 4.2. Sample data

Sample data (used to fill the prototype with data) are stored in JSON files in *VAKidneyNutrition/Supporting Files/Sample Data/* group.

allGoals.json and labValues.json files added and define dependency of the generated goals and shown major lab values in Charts screen.

## 5. Deployment Instructions

### 5.2. Build and run the app in a simulator or on a real device

Pods directory should be pulled using the following command runned from src directory:

$ pod install

To build and run the app in a simulator or on a real device you will need to do the following:

1. Open *src/VAKidneyNutrition.xcworkspace* in Xcode
2. Select *VAKidneyNutrition* scheme from the top left drop down list.
3. Select a real iPhone (when connected) or a simulator from the top left dropdown list.
4. Click menu Product -> Run (Cmd+R)
5. Follow the verification steps in [7. Verification](#_qgt61gy10rbr)

## 6. Verification

Follow the [challenge description](https://www.topcoder.com/challenges/30064052/?type=develop) and [forum messages](https://apps.topcoder.com/forums/?module=Category&categoryID=42153) to verify the app. See some notes below. Also you can follow the video (how to launch the server and verify the screens) - <https://youtu.be/CMIuq7SDJ0o> .

**Notes**

* You must remove previously installed app on your device/simulator because Core Data model changed and requires fresh install.
* See details about fixed issues in README.rtf

## 7. Resource Contact List

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| **Name** | **Resource Email** |
| TCCODER | Through TopCoder Member Contact |