My MN WIC App Technical Specifications

UPDATED JUNE 2023

Platform

- iOS
- Android

Operating Systems

- Android 6.0 and up
- iOS 16 or Later

Technologies

- Angular 9.0
- Bootstrap
- SQL Server
- Firebase
- Apache Cordova
- ASP.Net core Web API

Servers

- Web Server to host the API. The API must be exposed to the public facing URL.
- Database Server to host mobile data components.

API and Services

- Mobile Notification Service – A scheduled task.
- The service methods for the current API are documented using Swagger.

Third Party Software

- Firebase – Push Notifications
- Plugins
  - cordova-android-support-gradle-release 3.0.1 "cordova-android-support-gradle-release"
  - cordova-plugin-actionsheet 2.3.3 "ActionSheet"

- cordova-plugin-androidx-adapter 1.1.3 "cordova-plugin-androidx-adapter"
- cordova-plugin-app-version 0.1.9 "AppVersion"
- cordova-plugin-barcodescanner 0.7.4 "BarcodeScanner"
- cordova-plugin-camera 5.0.3 "Camera"
- cordova-plugin-compat 1.2.0 "Compat"
- cordova-plugin-device 2.0.1 "Device"
- cordova-plugin-dialogs 2.0.1 "Notification"
- cordova-plugin-firebasex 16.0.0 "Google Firebase Plugin"
- cordova-plugin-geolocation 4.0.1 "Geolocation"
- cordova-plugin-inappbrowser 2.0.2 "InAppBrowser"
- cordova-plugin-network-information 2.0.1 "Network Information"
- cordova-plugin-openfilenative 1.0.3 "Open File Native"
- cordova-plugin-splashscreen 5.0.2 "Splashscreen"
- cordova-plugin-statusbar 2.4.3 "StatusBar"
- cordova-plugin-whitelist 1.3.5 "Whitelist"
- cordova.plugins.diagnostic 6.1.1 "Diagnostic"
- uk.co.workingedge.phonegap.plugin.launchnavigator 5.0.6 "Launch Navigator"

Data Usage

- Data exchange format is JSON.
- Average usage per call for core features:
  - *Benefits Balance* - 3.52 kb
  - *Food Finder (UPC validation)* - less than 10 bytes
  - *Messages* - 1.46 KB
- Design of new features will place high priority on options that will minimize transfer of data.

Security

- All requests that involve accessing user information require a registered device id that is stored in the customers database. If the API is called without the authorization header that contains the registered device id, the request will be rejected with a 401-unauthorized user error.
- If the API is called by a device ID that exists in the database but does not match the registered account in the request, the request will be rejected with a 401-unauthorized user error. This prevents accessing user information for an account that is not the registered account making the request.

- All database calls are managed using a SQL Server user account that has restricted access to mobile tables.

- The API does not return any confidential information to the mobile client that could be traced to a specific user.

Notifications

- The push notification provider sends push notifications to Apple (APNS) and Android. The push notification provider service handles all aspects of queued messages and the delivery of those messages to the targeted mobile application which runs on the device.

- The Notification Services process is scheduled to run at a specified time each business day to obtain data from the MIS database. The extracted data is submitted to push notification provider and then pushed upon receipt to registered devices.

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