**User Guide for Food-Chain Scanner**

This program is meant to be used locally (WIFI) at every location of the food supply chain (e.g. manufacturer, distributor, market etc) to send location data to Blockchain.

**Requirements:**

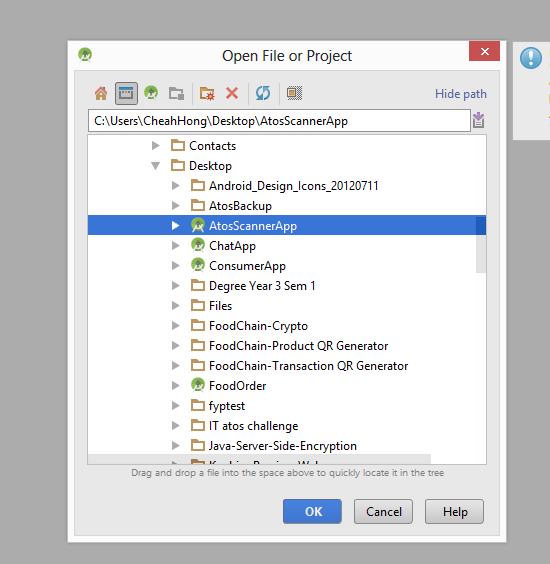
* Product QR code and Transaction QR code must present (refer to generate & generate2 user guides)
* WIFI connection must be stable(3-4 bar in strength)
* WIFI connection must allow access to <http://174.140.168.136:6876/> (Nxt peer)

**Extra notes:**

* One Transaction QR is available for around 3-4 transactions because of limited test coins

**How to build the app:**

1. Install/Update latest Android Studio IDE
2. Open Android Project (AtosScannerApp)



1. Run the project

**Devices tested on:**

* Samsung Galaxy S4 (Android Version 5.0.1)
* Samsung Galaxy A5 2016 (Android Version 6.0.1)

**External API:**

* NXT API

**Open source library:**

* Volley(Asynchronous HTTP request)
* Zxing (QR scanner)

**Use Cases:**

1. A worker has sixty apples ready to be packaged as batch
2. The sixty apples are divided into packages of 10
3. The worker generates Product QRs using ***generate*** web application
4. The worker generates Transaction QR using ***generate2*** web application
5. The worker sticks Product QRs onto the 10 packages of apples
6. For each of the packages, the worker first scans the Product QR, then scans the Transaction QR and lastly send the information to Blockchain
7. The worker puts the 10 scanned packages into a box (batch)
8. The worker sticks the Product QR onto the box
9. The worker then repeat step 6 for the box QR