

# Development of Android App

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## 1. Summary of User Requirements

We need an Android App to be installed in users' Android phone to update the job status and proof of delivery.

- a. Bar code scanning
- b. Verifying record with the server using MS.Net Web Service provided
- c. Update record to the server using MS.Net Web Service provided
- d. Other Requirements:
  - i. The development must be done in MS Visual Studio 2017 using Xamarin.
  - ii. Need to hand over the source code

## 2. Detailed User Requirements

Screen 1

Logo + Company or System Name<sup>1</sup>

User Name<sup>2</sup>: \_\_\_\_\_

Password<sup>3</sup>: \_\_\_\_\_

[Login<sup>4</sup>]

Screen 2

Logo + Company or System Name<sup>1</sup>

[Home<sup>8</sup>][Logout<sup>9</sup>]

Sign In Jobs<sup>5</sup>Retrieve Job<sup>6</sup>

Today Jobs<sup>7a</sup>

Order NoStatusAction

EW123456789012345678 NN [Accept<sup>7.b.i</sup>]

EW123456789012345678 PN [Update<sup>7.b.ii</sup>]

Screen 3

Logo + Company or System Name<sup>1</sup>

[Home<sup>8</sup>][Logout<sup>9</sup>]

Sign In Job

Bar Code Scan<sup>5b</sup>Job Order No<sup>5c</sup>: \_\_\_\_\_

Job Order Nos Scanned or Entered<sup>5d</sup>

1. EW123456789012345678 [Remove]<sup>5e</sup>

2. EW123456789012345679 [Remove]

3. EC123456789012345678 [Remove]

4. EC123456789012345679 [Remove]

...

[Submit<sup>5f</sup>]

Screen 4

Logo + Company or System Name<sup>1</sup>

[Home<sup>8</sup>][Logout<sup>9</sup>]

Retrieve Job To Update

Barcode Scan<sup>6b</sup>Job Order No<sup>6c</sup>: \_\_\_\_\_

Call<sup>6d</sup>SMS<sup>6e</sup>

Completed Job Status<sup>6f</sup>

Take Photo<sup>6.f.i</sup>Signature<sup>6.f.ii</sup>

[Submit<sup>6.f.iii</sup>]

Unsuccessful Job Status<sup>6g</sup>

[Update Failed Status<sup>6.g.i</sup>]

Mobile Phone

New Job Alert<sup>10</sup>

Apps Icon2

Notes:

1. Logo + Company or System Name (25 Chars): To be provided later and changeable easily
2. User Name (20 Chars)
3. Password (20 chars)
4. Login Button:
  - a. Need validate the user name and password by doing a XML call to MS IIS Web Service (spec to be provided later)
  - b. The web service will return the error message if fail or “TRUE” if valid user name and password
  - c. If Valid, move to Screen 2
5. Sign In Jobs Button:
  - a. This is for the users to accept the jobs given by scanning multiple bar codes which are the Order Nos before in the office. Order No format is 20 char.
  - b. Allow the user to barcode scan the job order no or
  - c. Allow users to manually input the job order no
  - d. Allow to local apps to store multiple job order no before submitting to the server
  - e. Allow to delete one of the job order nos
  - f. Submit Button: Submit the order nos to update the server that the jobs are being accepted by the user. This will need to be done by doing a XML call to MS IIS Web Service (spec to be provided later).
    - i. The web service will validate the order nos. If one of the orders no is not valid, all order nos will be rejected and an error message will be returned. The apps should prompt the user the error message. After the user reads the message and click OK, the screen should still show the order nos and let the user to take further action.
    - ii. If all are valid jobs, “TRUE” will be returned. Prompt the user that “Job Accepted”. After clicking ok, go back to Screen 2
6. Retrieve Job Button
  - a. This is for the users to retrieve a single order no to update the status and proof of delivery
  - b. Allow the barcode scan the job order no or
  - c. Allow the user to manually input the job order no text box. **Take note the order no can be automatically filled if from Screen 2’s [Update] button described in 7.b.ii.** Need to do XML call to MS IIS Web Service (spec to be provided later) to verify and get the following information:
    - i. Client Name
    - ii. Client Mobile No
  - d. Use local mobile device to activate a call with the client’s mobile number auto displayed
  - e. Use local mobile device to activate a SMS with the client’s mobile number auto displayed.
    - i. Please give an option for the administrator to pre-define a few common messages (e.g. On my way and 10 mins there or Call but you are not available) for the user to select one. The selected message will be part of the SMS message and the user can edit/send.
  - f. Completed Job Status: This section is for the user to execute a few tasks if the job is completed successfully
    - i. Take Photo: Activate the phone’s camera to take a picture
    - ii. Sign: Allow the user to sign on the phone
    - iii. Submit: Need to do XML call to MS IIS Web Service (spec to be provided later) to update the following info:
      1. Photo if any
      2. Signature if any
      3. Timestamp
      4. Prompt the user once the update is completed
  - g. Unsuccessful Job Status: This section is for the user to update the reason why the job is not completed.
    - i. Update Failed Status: Once selected, the user can select one of the following reasons:
      1. Recipient not around, Premises closed, Call/SMS no Answer, Wrong/incomplete address, Wrong contract number, Change delivery date/time, Recipient reject, Goods damaged, Cancel/did not order, Restricted area (no clearance)
      2. After selecting the reason, need to do XML call to MS IIS Web Service (spec to be provided later) to update the following info
      3. Prompt the user once the update is completed
7. Today Jobs
  - a. When this screen is refreshed, need to fetch the list of today jobs assigned to the user with the following fields:
    - i. Order No
    - ii. Order Detail like Recipient Name, Mobile No, Address. We will finalize this later
    - iii. Status: NN (new booking) or PN (pending job)
  - b. Action Button:
    - i. If status is NN, the Action Button will be “Accept”. This is for the user to accept/acknowledge the new job assigned. Refresh the screen after the action.
    - ii. If status is PN, the Action Button will be “Update”. This is for the user to update the status of the job. Once click, go to Screen 4.
8. Home Button: When selected, always go to Screen 2
9. Logout Button: When selected, logout the user
10. New Job Alert: After the user logins and “temporarily” out the apps, the apps should intermittently contact the server to get the # of New Jobs assigned by doing XML call to MS IIS Web Service (spec to be provided later)