**Android Delivery Tracking System Preliminary Specification –**

**Action Bar** **(at top of all screens)** –

***Custom Logo***

Sign In  
 (or “Stops”)

1. Custom Logo – System will accept an image resource of a preset size that is used as the company logo. This resource can be added before the app is packaged and distributed based on the client.
2. “one button” - shows as “Sign In” if user has not signed in or shows as “Stops” (to return to Stops list – Screen 2)

Username:



Password:



Sign In

**Screen 1: HOME (Sign In)**

1. Show a Sign In screen if user has not signed in
   1. automatically sign out after optional amount of time of inactivity – returning to the Sign In screen (NOTE: this idea can be set aside based on Chirag’s comments – not essential. The intention is to secure the app if it is lost or stolen.)
2. After Sign In – username and password will be used to automatically retrieve and display latest Stops list (See screen 2. ) [NOTE: more user input may be required to retrieve the appropriate route information – we will verify once data samples are available.]

**SCREEN 2: Stops**

**Stops** **for Route A27** Feb 11, 2013

|  |  |  |  |
| --- | --- | --- | --- |
| |  |  | | --- | --- | | **Stop ID: W15 – Store 1** Address1 City, State ZIP 555-111-1234 | ✔ | | |
| |  |  | | --- | --- | | **Stop ID: T97 - Store 2** Address2 City2, ST ZIP 555-222-9876 | Uploading… | | |
| **Stop ID : B278 - Delivery 3** Address for Delivery 3 City3, ST ZIP 555-333-6589 | |
| **Stop ID: A15 - Quick Stop**  42 W Main Ave  Chicago, IL | ✔ |

1. multi-line scrollable ListView
2. Clickable “Stop” rows open Screen 3
3. Stops will be displayed in the same order as received from the server. Stops will generally be completed in order, but may not.
4. Stops change color and show checkmark when stop completed (Completed status based on whether all info collected for a stop AND has been verified as received by the server)
5. Stops that have been “Marked Completed” (See screen 3B.4) and waiting for verification from the server will show as “Uploading…”

**Screen 3A: Stop Details**

**Stop ID: T97 - Store 2**

**Address2**

**City2, State ZIP**

**Phone#: 555-222-9876**

|  |  |  |  |
| --- | --- | --- | --- |
| * Purchase Order # 1   + Item 1 (16)   + Item 2 (120) * Purchase Order # 2   + Item 1 (18)   + Item 2 (2)   + Item 3 (4)   + Item 4 (6) | | | |
| **Start Delivery** | | Scan Codes | Confirm | Mark Complete | |

1. Displays all data about the specific delivery
   1. Stop ID and Name
   2. Street Address
   3. City, State ZIP
   4. Phone number
2. Display purchase orders as an expandable, scrollable list
   1. List each purchase order number
   2. Expanded child list will represent products being delivered
   3. Each child item will display the quantity to be delivered
3. Start Delivery Button -
   1. OnClick event will record a Begin Delivery timestamp (possibly display to user?) and activate the “Scan Codes” button if option available to user (see Screen 3C) ***OR*** show the “Delivered” textbox for each item (see Screen 3B).
4. When displaying a previously completed delivery, all buttons will be inactive and collected data will be displayed.

**Screen 3B: “Delivery In Progress” with NO extra features**

**Stop ID: T97 - Store 2**

**Address2**

**City2, State ZIP**

**Phone#: 555-222-9876**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| * Purchase Order 1   + Item 1 (16)  |  |  | | --- | --- | | Delivered: | 16 |  * + Item 2 (120)  |  |  | | --- | --- | | Delivered: | 110 |  * Purchase Order2   + Item 1 (18)  |  |  | | --- | --- | | Delivered: | 16 |  * + Item 2 (2)  |  |  | | --- | --- | | Delivered: | 2 |  * + Item 3 (4)  |  |  | | --- | --- | | Delivered: | 4 |  * + Item 4 (6)  |  |  | | --- | --- | | Delivered: | 6 | | | |
|  | | |
| Start Delivery | **Confirm** | Mark Complete |

1. “Delivered” textbox for each item -
   1. Once a Begin Delivery timestamp has been recorded, display a textbox where the user will entered the actual quantity delivered.
2. Once a Delivered quantity has been entered for *all* items, the Confirm button will become activated
3. Confirm button – OnClick event will bring up a dialog where the POD (proof of delivery) signature can be captured (see Screen 4) The Signee’s last name text can be displayed on the completed Stops.
4. Mark Complete button –
   1. This button will become activated once all Delivered quantities have been entered AND a signature has been captured
   2. OnClick event will record an End Delivery timestamp and send the JSON data and signature jpg file for this stop back to the server.
   3. The Stop List will then be displayed with the newly “completed” stop appearing as “Uploading…” until the server returns a verification the data has been received.

**Screen 3C: Optional “Delivery In Progress” features**

1. Scan Codes Button -
   1. As an optional feature, the Scan Codes button will only be visible to clients that have implemented this feature.

**Stop ID: T97 - Store 2**

**Address2**

**City2, State ZIP**

**Phone#: 555-222-9876**

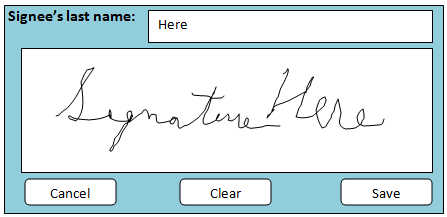
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| * Purchase Order 1   + Item 1 (16)   + Item 2 (120) [Delivered: 80]  |  |  |  | | --- | --- | --- | | 🗶 | Return code: | Wrong item | | Return Auth#: | 24AN | | Return Qty: | 30 |  |  |  |  |  | | --- | --- | --- | --- | | 🗶 | Over | Short | Damaged |  * Purchase Order2   + Item 1 (18) [Delivered: 13]  |  |  |  |  | | --- | --- | --- | --- | | 🗶 | Over | Short | Damaged |  * + Item 2 (2)   + Item 3 (4) [Delivered: 4]   + Item 4 (6) | | | |
| Start Delivery | **Scan Codes** | **Confirm** | Mark Complete |

(Context menu on each Item  
with quantity discrepancy)

* OS & D
* Returns
  1. OnClick event starts barcode scanner
  2. As barcodes are scanned, number of items delivered is incremented.
  3. When scanner is closed, Stop Details screen will display the totals currently scanned (shown as “[Delivered: XX]”)

1. Context menu on each item –
   1. Context menu options will only be visible to clients that have implemented this feature.
   2. After the user has scanned all the items delivered, any items with a discrepancy between the quantity to deliver and the delivered count will ***require*** further information.
   3. OS & D –
      1. Available in context menu when there is a discrepancy in quantities.
      2. OnClick will open a section to allow the user to select a radio button indicating which reason applies.
      3. “🗶” button – OnClick removes the OS & D data from the item.
   4. Returns –
      1. Available in context menu when there is a discrepancy in quantities.
      2. OnClick will open a section to allow the user to enter a Return Code, Return Authorization Number, and a Return Quantity.
      3. “🗶” button – OnClick removes the Return data from the item.
2. Confirm button – This button will become activated once all quantities scanned match quantities to be delivered, *or* OS & D and/orReturns information has been provided.
3. Mark Complete button –
   1. This button will become activated once all quantities scanned match quantities to be delivered,   
      *or* OS & D and/orReturns information has been provided, AND a signature has been captured.
   2. OnClick event will record an End Delivery timestamp and send the JSON data and signature jpg file for this stop back to the server.
   3. The Stop List will then be displayed with the newly “completed” stop appearing as “Uploading…” until the server returns a verification the data has been received.

**Screen 4: POD (Signature Capture)**

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**Development milestones in priority order:**

1. Stop List (Screen 2)
2. Stop Details with no extra features (Screen 3A & 3B)
3. POD (Screen 4)
4. Sign In (Screen 1)
5. Additional Stop Details Options (Screen 3C)

Testing and code review can begin as each milestone is completed.