

A woman with dark hair, wearing a blue button-down shirt, is looking upwards and to the right with a slight smile. She is positioned on the right side of the frame. Overlaid on the left side is a large, stylized cloud shape filled with numerous small, circular icons representing various business and technology concepts like a car, camera, handshake, globe, and smartphone. In the top left corner, the text 'Everyday Credit & Tally' is displayed in a white sans-serif font. Below it, 'Priyanka S N' and 'SEP 24, 2015' are listed. The SAP logo is in the bottom left corner. The background is a blurred city street with yellow Chinese characters on a building.

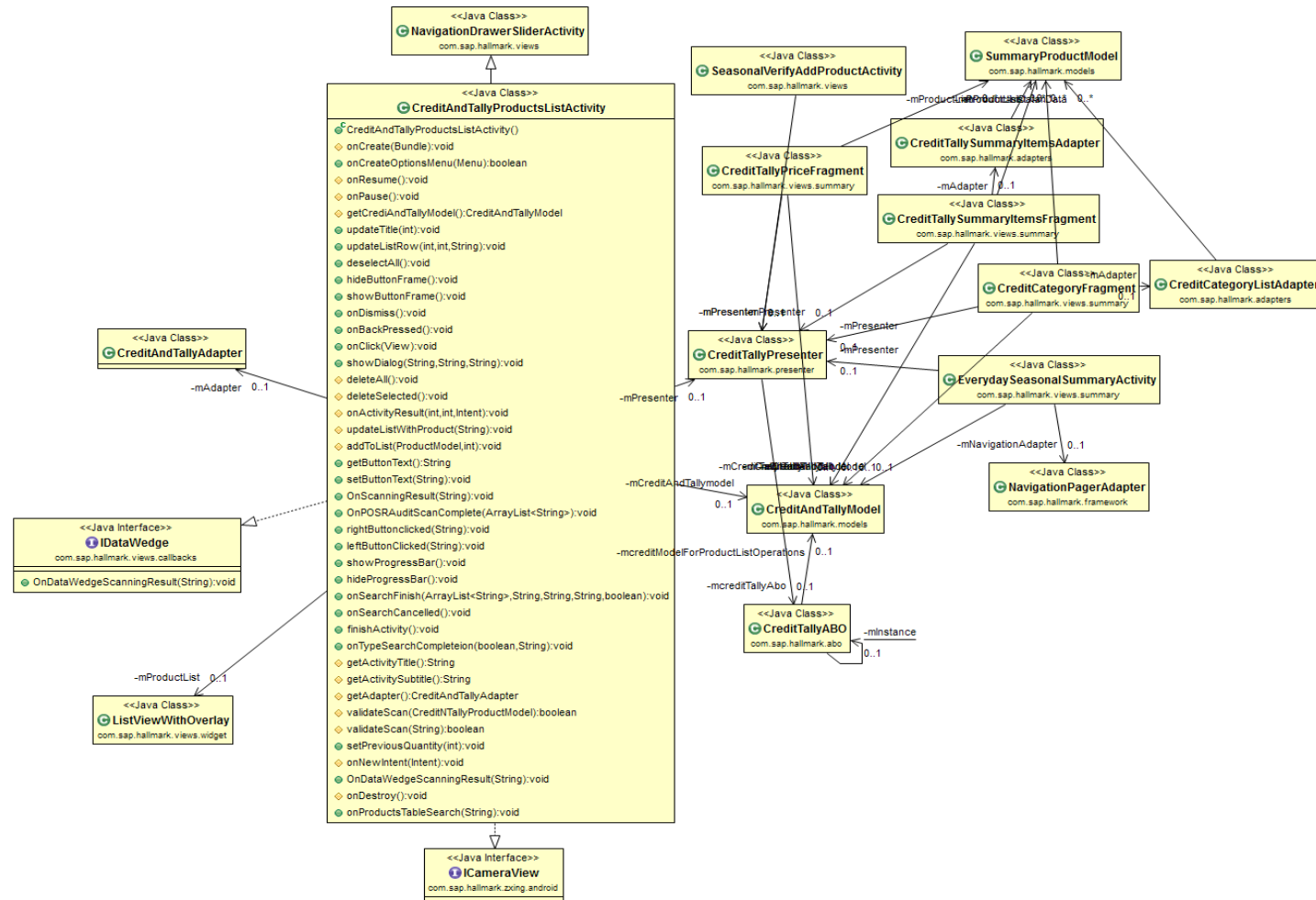
Priyanka S N
SEP 24, 2015



Agenda

- General Program Structure
- Packages
- Interfaces, Classes
- Everyday Credit & Tally

General Program Structure



Packages

The following packages are created to support this functionality:

- `com.sap.hallmark.views`
- `com.sap.hallmark.views.callbacks`
- `com.sap.hallmark.views.presenters`
- `com.sap.hallmark.adapters`

Interfaces,Classes

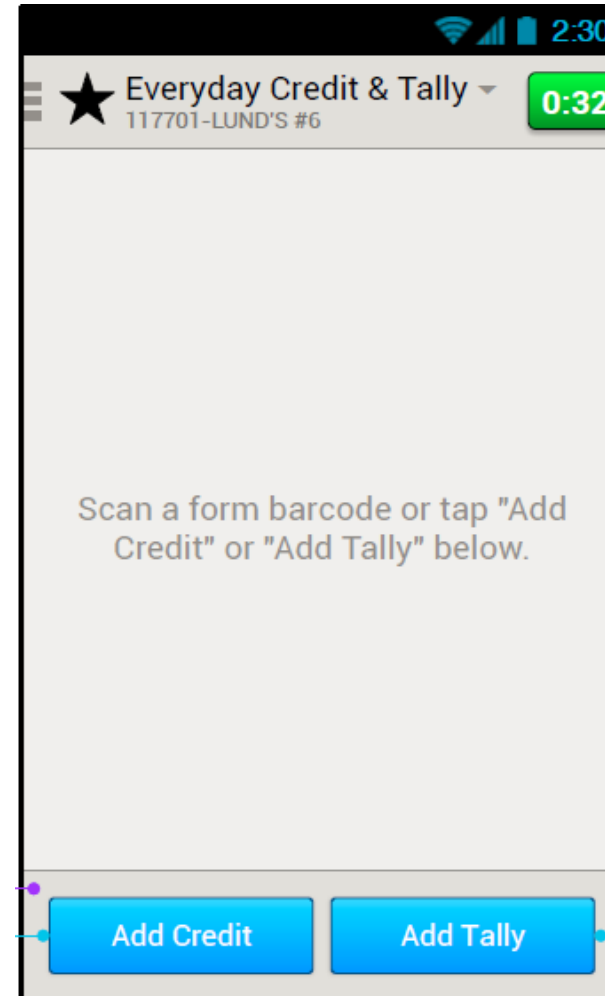
| Object Type | Object | Short Text/Comment |
|-------------|------------------------------------|--|
| Class | CreditTallyActivity | Common Activity for Everyday and Seasonal Credit and Tallies; it displays the list of credit and tally entries, and expects EXTRA_IS_SEASONAL |
| Class | CreditTallyListAdapter | Adapter for the forms list |
| Class | CreditTallyTestABO | Credit Tally ABO class that integrates with the MBOs; the data can be saved locally in the device |
| Class | CreditAndTallyProductsListActivity | Common Activity for Everyday and Season credit, tally, and SBT Discard. It shows the list of products; and expects EXTRA_LIST_TYPE. Defaults to TYPE Everyday_CREDIT. EXTRA_IS_EDITABLE can be passes to set editable or non editable modes. |
| Class | CreditAndTallyAdapter | Adapter to display product list, it receives the list of products to display. On selecting the quantity text, it displays a list dialog box to edit the quantity. |
| Class | CreditTallyPresenter | Presenter class to connect the ABO layer to the Credit/tally UI |
| Class | ListViewWithOverlay | Listview with an overlay at the implemented position in {@link #dispatchDraw(Canvas)} |
| Class | AddCreditActivity | Activity to add credit and convert tally to credit |
| Class | CreditCategoryFragment | Category Fragment in the Credit/Tally summary screen |
| Class | CreditTallySummaryItemsFragment | Summary Fragment for the Everyday/Seasonal Credit/Tally Summary screen |
| Class | CreditTallySummaryItemsAdapter | Adapter for items summary list |
| Class | SeasonalVerifyAddProductActivity | Activity to add unknown product details |
| Class | CreditNTallyProductModel | Credit tally product model |

Interfaces,Classes

| Object Type | Object | Short Text/Comment |
|-------------|---------------------------------|--|
| Class | EverydaySeasonalSummaryActivity | Activity to display the Credit and Tally Summary; it is commonly used for Per Visit Summary and Store Visit Summary. It expects EXTRA_IS_SEASONAL, EXTRA_CREDIT_TALLY_MODEL, EXTRA_MODE, and IS_PER_STORE. |
| Class | EverydaySeasonalSummaryActivity | Activity to display the Credit and Tally Summary; it is commonly used for Per Visit Summary and Store Visit Summary. It expects EXTRA_IS_SEASONAL, EXTRA_CREDIT_TALLY_MODEL, EXTRA_MODE, and IS_PER_STORE. |
| Class | CreditTallySummaryFragment | Summary Fragment in the Everyday Credit and Tally Summary screen |
| Class | CreditCategoryFragment | Category Fragment in the Credit/Tally summary screen |
| Class | CreditTallyPriceFragment | Price Fragment in the CreditTally summary screen. |
| Class | CreditTallySummaryItemsFragment | Summary Fragment for the Everyday/Seasonal Credit/Tally Summary screen. |
| Class | CreditCategoryListAdapter | List adapter for the Category tab page on the CreditTally summary screen |
| Class | CreditTallySummaryItemsAdapter | Adapter for the items list on the Summary screen |
| Class | CreditTallySummaryPriceAdapter | Price Points tab page on the Summary screen |
| Class | CreditTallyPresenter | Presenter class to connect the ABO layer to the Credit/tally UI |
| Class | CreditTallyABO | Credit Tally ABO class that integrates with the MBOs. The data can be saved locally in the device. |

Everyday Credit & Tally

Scanning a form barcode will automatically bring up the Add Credit screen with the form number already entered.



Everyday Credit & Tally

Forms are separated out in a container each, with varying treatments depending on their status.

Tallies or credits display their status:

- Active: Editable, open credit/tally.
- Completed: Completed and ready to send.
- Transmitted: Sent to the back-end.
- Confirmation #: Received confirmation number from the back-end.

The screenshot shows the 'Everyday Credit & Tally' mobile application interface. At the top, the app title 'Everyday Credit & Tally' is displayed next to a star icon and a dropdown arrow. Below the title, the user ID '117701-LUND'S #6' is shown. A green timer in the top right corner displays '0:32'. The main content area lists two items:

- Tally: 05 / 21 / 13**
Credit for shoebox POP.
A blue square icon is to the left of the amount '\$18.00'. The status is 'Active'. An 'Edit' button is to the right of the date. Below this, a table shows 'Wholesale Total' and 'Status'.
- Credit: 05 / 19 / 13**
Lorem ipsum dolar sit amet.
The amount is '\$14.68' and the confirmation number is '1234567890'. Below this, a table shows 'Wholesale Total' and 'Confirmation #'.

At the bottom of the screen, there is a prompt: 'Scan a form barcode to automatically add it to your list.' Below this prompt are two blue buttons: 'Add Credit' and 'Add Tally'.

Everyday Credit & Tally

If a credit/tally is active for a long period of time, it is tagged as such.

Everyday Credit & Tally 117701-LUND'S #6 0:32

Credit: 05 / 21 / 13 Edit
Credit for shoebox POP.

| | |
|-----------------|--------|
| \$18.00 | Active |
| Wholesale Total | Status |

Active for 3 days.

Credit: 05 / 19 / 13
Lorem ipsum dolar sit amet.

| | |
|-----------------|----------------|
| \$14.68 | 1234567890 |
| Wholesale Total | Confirmation # |

Scan a form barcode to automatically add it to your list.

Add Credit Add Tally

Everyday Credit & Tally

Unlike the Lookup function, the user must enter a complete valid pocket ID or stock number to return a single result. They cannot perform searches for partial information.

The screenshot shows a mobile application interface for 'Add Product' under the 'Everyday Credit' section. At the top, there are 'Cancel' and 'Add' buttons. Below them are two tabs: 'STOCK #' and 'UPC'. Under the 'STOCK #' tab, there are three input fields labeled 'Prefix', 'Alpha', and 'Basic'. The 'Prefix' field contains '0011', the 'Alpha' field contains 'AAA', and the 'Basic' field contains 'XXXX'. Below the input fields is a numeric keypad with digits 1-0, a QWERTY keyboard, and a bottom row with 'Sym', a microphone icon, a slash icon, 'EN(US)', a period icon, '.com', and a 'Go' button. The status bar at the top right shows a Wi-Fi signal, cellular signal, battery level, and the time 2:30.

Everyday Credit & Tally

Users are able to select forms to delete.

1 Selected Cancel

| | |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | Credit: 05 / 21 / 13 Credit for shoebox POP. |
| \$18.00 | Active |
| Wholesale Total | Status |

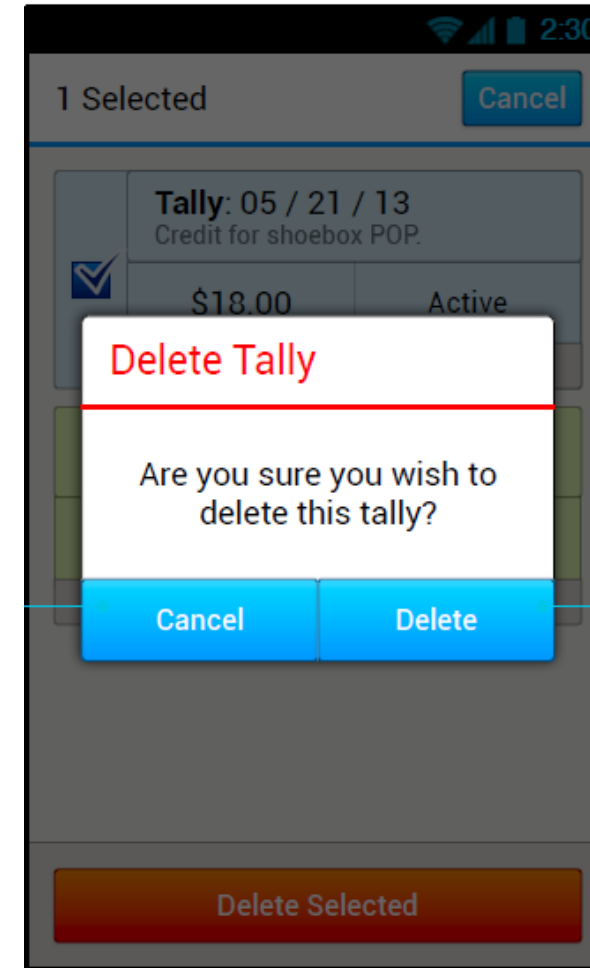
| | |
|--|----------------|
| Credit: 05 / 19 / 13 Lorem ipsum dolar sit amet. | |
| \$14.68 | 1234567890 |
| Wholesale Total | Confirmation # |

Delete Selected

Everyday Credit & Tally

When the user opts to delete a form, we ask them to Confirm.

Terminology differs between whether a tally or credit form is selected.



Everyday Credit & Tally

Select the form, for numeric entry. If the user does not need to review the form details, the field could be automatically selected as the default state.

The user is able to scan a form and have this automatically entered. This also applies to Season Credit & Tally.

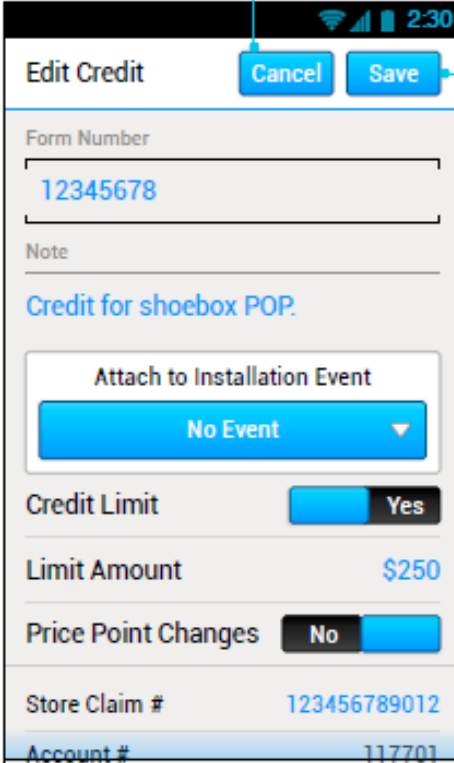
Toggling the credit limit on reveals the Limit Amount row, which the user can use to enter the dollar amount.

The user is able to track a credit against an installation event. This list is populated with event IDs the user has for the scanned in store. If the user has an installation they have begun, the default choice would be that installation's event ID

The screenshot shows a mobile application interface for 'Add Credit'. At the top, there's a status bar with signal, battery, and time (2:30). Below it, the title 'Add Credit' is on the left, and 'Cancel' and 'Add' buttons are on the right. The form fields include: 'Form Number' with a text input field containing 'Enter Form Number'; 'Note' with a text area containing 'Credit for shoebox POP.'; 'Attach to Installation Event' with a dropdown menu showing 'No Event'; 'Credit Limit' with a toggle switch set to 'Yes'; 'Limit Amount' with a text input field containing '\$250'; 'Price Point Changes' with a toggle switch set to 'No'; 'Store Claim #' with a text input field containing '123456789012'; and 'Account #' with a text input field containing '117701'. Blue arrows point to various UI elements: the 'Add' button, the 'Form Number' input, the 'Note' text area, the 'Attach to Installation Event' dropdown, the 'Credit Limit' toggle, the 'Limit Amount' input, the 'Price Point Changes' toggle, the 'Store Claim #' input, and the 'Account #' input.

Everyday Credit & Tally

This screen works the same as the Add credit screen, except is editing a form's details.



The screenshot shows a mobile application interface for editing credit details. At the top, there is a status bar with signal strength, battery level, and the time 2:30. Below this is a header bar with the title 'Edit Credit' and two buttons: 'Cancel' and 'Save'. The main form area contains several fields: 'Form Number' with the value '12345678', 'Note' with the text 'Credit for shoebox POP.', 'Attach to Installation Event' with a dropdown menu showing 'No Event', 'Credit Limit' with a toggle switch set to 'Yes', 'Limit Amount' with the value '\$250', 'Price Point Changes' with a toggle switch set to 'No', 'Store Claim #' with the value '123456789012', and 'Account #' with the value '117701'.

Everyday Credit & Tally

Add Tally functionally works the same as Add Credit.

The screenshot shows a mobile application interface for 'Add Tally'. At the top, there is a status bar with a Wi-Fi icon, signal strength bars, a battery icon, and the time '2:30'. Below the status bar is a header bar with the title 'Add Tally' and two buttons: 'Cancel' and 'Add'. The main content area is divided into several sections. The first section is labeled 'Note' and contains the text 'Tally for shoebox POP.'. The second section is labeled 'Credit Limit' and has a toggle switch set to 'Yes'. The third section is labeled 'Limit Amount' and shows the value '\$250'. The fourth section is labeled 'Price Point Changes' and has a toggle switch set to 'No'. The bottom section contains a list of fields: 'Account #' with the value '117701', 'Account Name' with the value 'LUND'S #6', 'Customer #' with the value '123456789012', and 'Date' with the value '05 / 21 / 13'.

| Add Tally | |
|---------------------|---|
| Note | Tally for shoebox POP. |
| Credit Limit | <input checked="" type="checkbox"/> Yes |
| Limit Amount | \$250 |
| Price Point Changes | <input checked="" type="checkbox"/> No |
| Account # | 117701 |
| Account Name | LUND'S #6 |
| Customer # | 123456789012 |
| Date | 05 / 21 / 13 |

Everyday Credit & Tally

Scanning multiple items will increase the quantity for that product. The user can also tap on the quantity number to manually change it.

The subtitle is the user's entered note for this form. If the user has entered no form, the form number is shown instead. If there is no note or form number, the form's creation date is shown

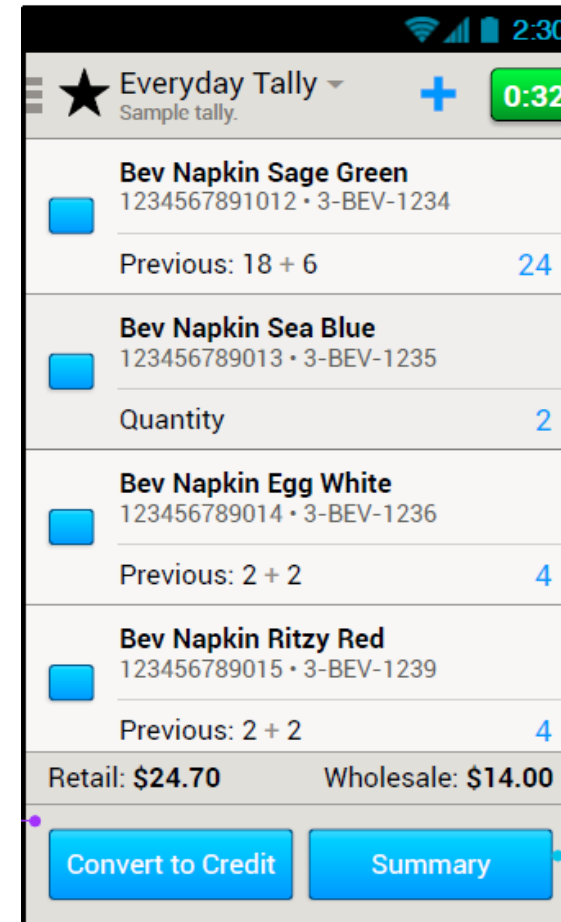
The screenshot displays the 'Everyday Credit' mobile application interface. At the top, there is a header bar with a star icon, the title 'Everyday Credit', a subtitle 'Lorem ipsum dolar sit amet.', a plus icon, and a green timer showing '0:32'. Below the header, there is a list of items, each with a blue square icon, a title, a subtitle, and a quantity field. The items are:

- Bev Napkin Sage Green**
1234567891012 • 3-BEV-1234
Previous: 18 + 6 24
- Bev Napkin Sea Blue**
123456789013 • 3-BEV-1235
Quantity 2
- Bev Napkin Egg White**
123456789014 • 3-BEV-1236
Previous: 2 + 2 4
- Bev Napkin Ritzy Red**
123456789015 • 3-BEV-1239
Previous: 2 + 2 4

At the bottom of the list, there is a summary section with two columns: 'Retail: \$24.70' and 'Wholesale: \$14.00'. Below this, there are two blue buttons: 'Convert to Tally' and 'Summary'.

Everyday Credit & Tally

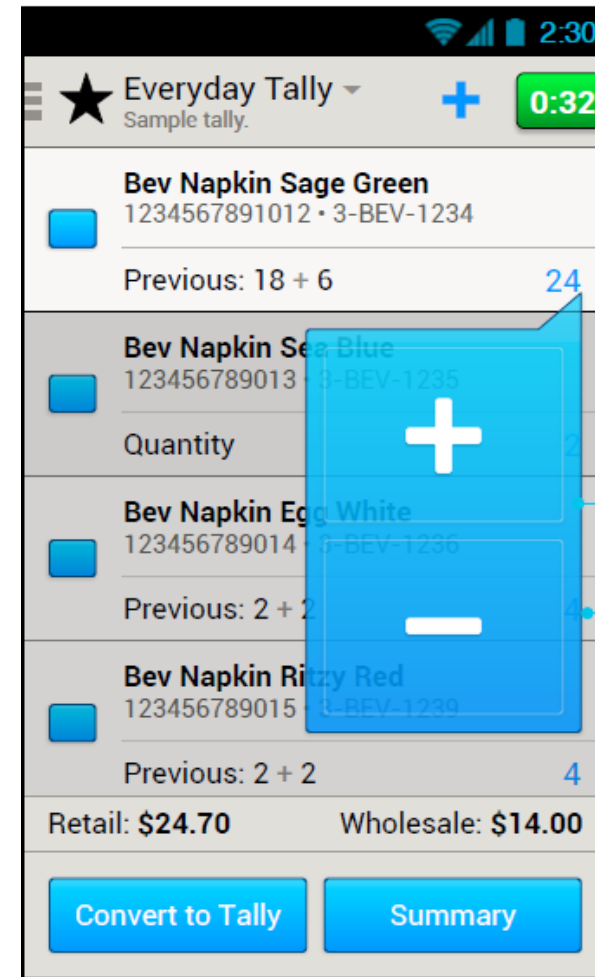
When the user creates a tally, they are sent directly to this screen to begin scanning. If the user wishes to then make it a credit, assign a form number and so On, they are able to Convert to Credit and then enter those details.



Everyday Credit & Tally

When the user scans a product, an overlay appears allowing them to increase/decrease the quantity amount quickly.

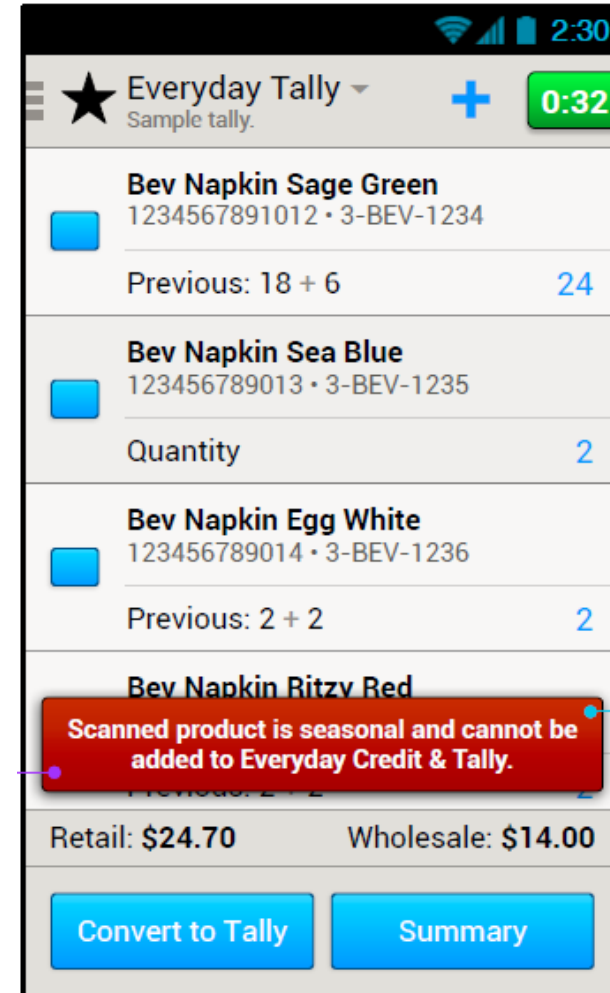
This overlay appears in the same place, as it is anchored to the most recently scanned product, which is at the top.



Everyday Credit & Tally

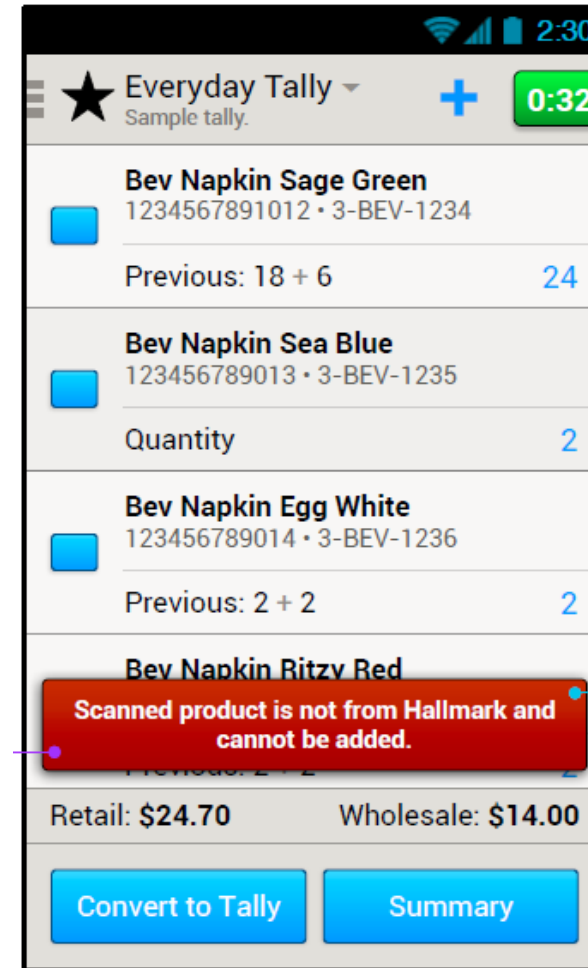
If the user scans a seasonal product, an audible tone is played and a short term notification appears telling the user it is unable to add that type of product.

This notification is automatically dismissed after a short duration (~5 seconds).



Everyday Credit & Tally

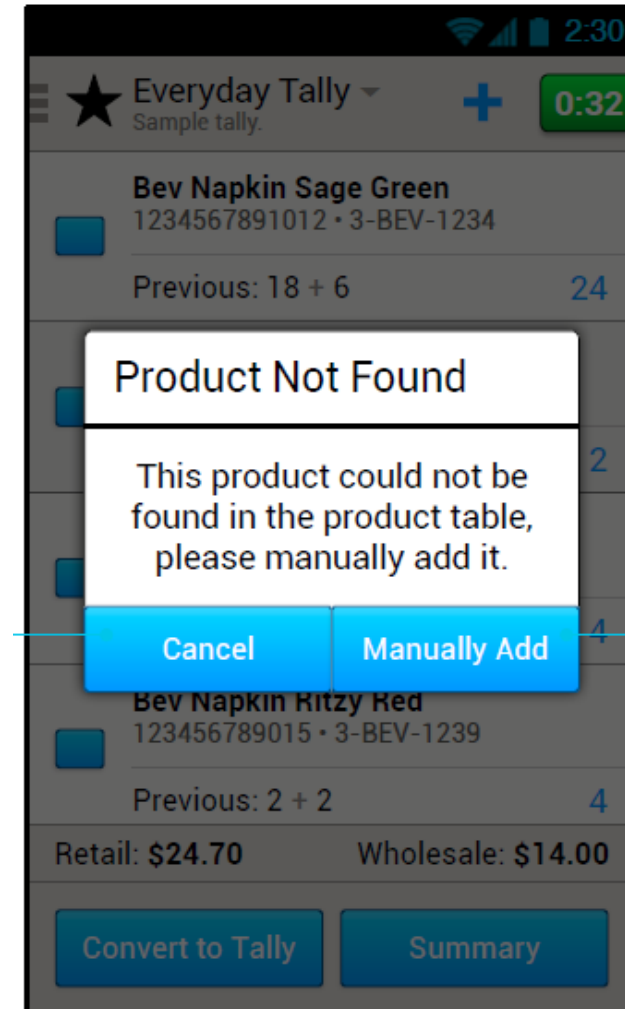
If the user scans a product that is not from Hallmark, an audible tone is played and a short term notification appears telling the user it is unable to add that type of product.



Everyday Credit & Tally

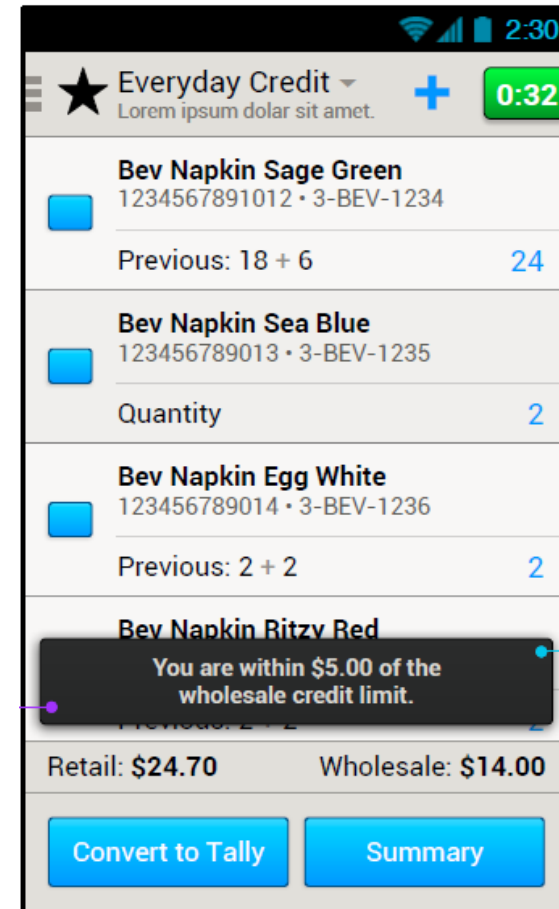
This prompt is displayed when the user has scanned a product that is out of date and no longer listed, or not from Hallmark.

Out of date products are given the description "Unknown Product" and have a \$0 wholesale credit amount.



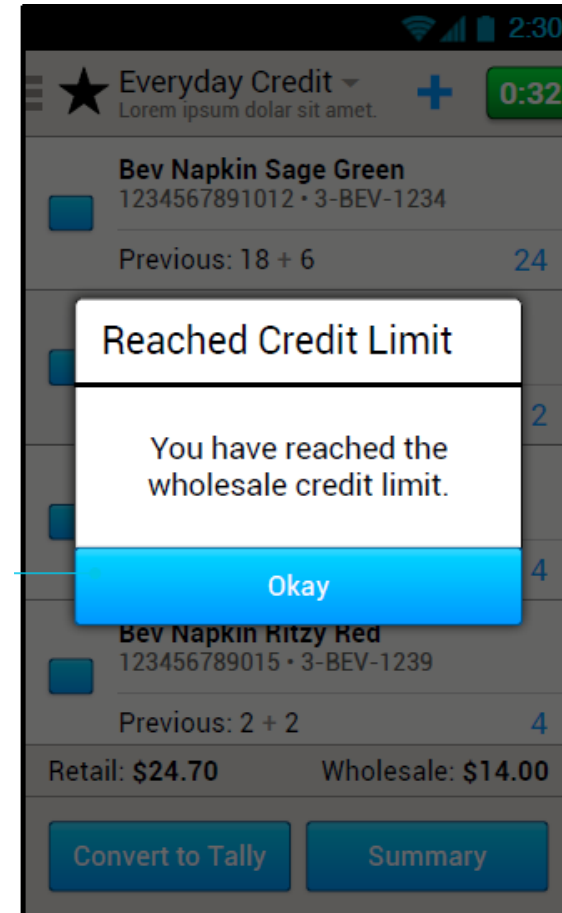
Everyday Credit & Tally

When the user scans a product that brings them within a certain dollar range of their store credit (\$5 for example), the device plays an audible tone and displays a short term notification.



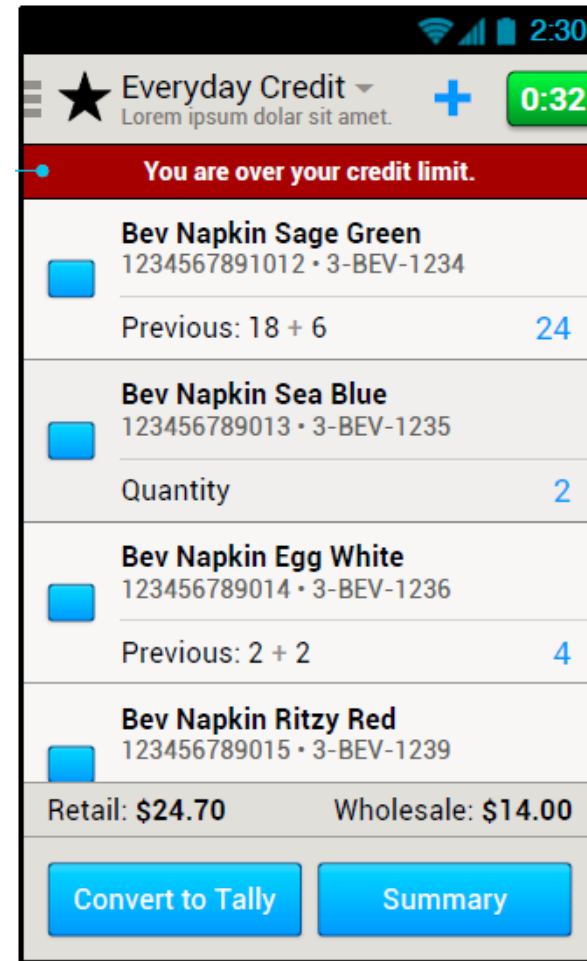
Everyday Credit & Tally

If the user reaches the credit limit with an addition, they are given a prompt. The system accepts the addition that put the user on or over the limit but won't accept further additions.



Everyday Credit & Tally

After a user continues, a persistent notice is shown that they are over their credit limit set. This does not stop them from adding additional products.



Everyday Credit & Tally

Summary screen shows the form details, including retail and wholesale totals, for review.

Summary is broken down into multiple tabs for easier reading.

Date Created refers to the date the form is created on the device.

If the user is returning to a credit that has already been confirmed, the action-bar will instead only have a "Close" button.

Summary
Everyday Credit

Edit Confirm

| SUMMARY | CATEGORIES | ITEMS | PRICE |
|-------------------------|------------|-------|--------------|
| Retail Total | | | \$29.70 |
| Wholesale Total | | | \$18.00 |
| Credit Pieces | | | 10 |
| Note | | | |
| Credit for shoebox POP. | | | |
| Form # | | | 1234AB |
| Store Claim # | | | 123456789012 |
| Account # | | | 117701 |
| Account Name | | | LUND'S #6 |
| Customer # | | | 123456789012 |
| Date Created | | | 05 / 21 / 13 |

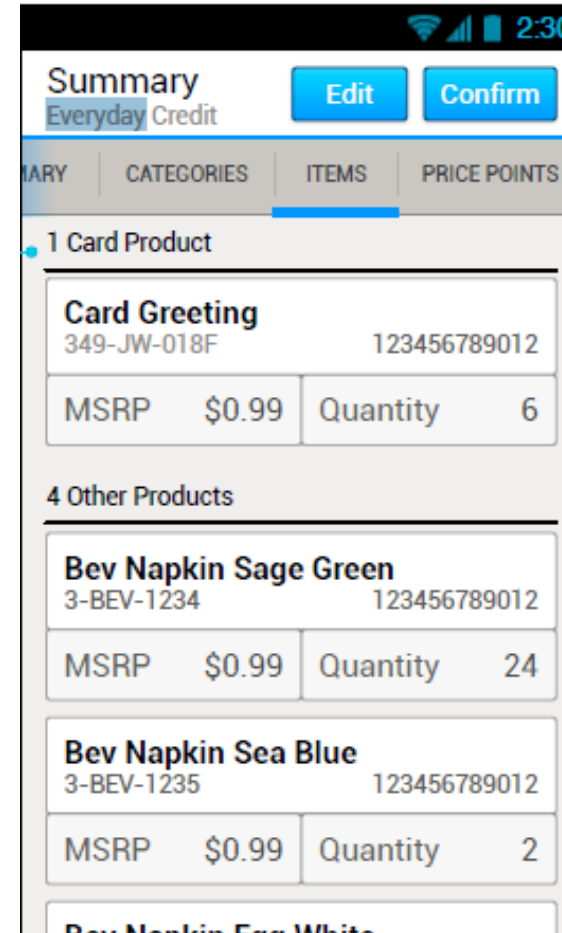
Everyday Credit & Tally

The categories Cards, Gift Wrap and Other are used, displaying the quantity of products in each along with retail and wholesale totals.

| Summary | | Edit | Confirm |
|-----------------|-------------|-------|--------------|
| Everyday Credit | | | |
| SUMMARY | CATEGORIES | ITEMS | PRICE POINTS |
| Cards | 24 Quantity | | |
| \$23.76 | \$16.56 | | |
| Retail | Wholesale | | |
| Gift Wrap | 6 Quantity | | |
| \$11.49 | \$7.74 | | |
| Retail | Wholesale | | |
| Other | 1 Quantity | | |
| \$4.99 | \$2.29 | | |
| Retail | Wholesale | | |

Everyday Credit & Tally

Products are shown in a compact summary and organised by category. Categories are then sorted by price point then individual stock number.



The screenshot shows a mobile application interface for 'Everyday Credit'. At the top, there's a status bar with signal, Wi-Fi, and battery icons, and the time 2:30. Below that, a header bar contains the title 'Summary' and 'Everyday Credit', along with 'Edit' and 'Confirm' buttons. A tabbed interface shows 'SUMMARY', 'CATEGORIES', 'ITEMS', and 'PRICE POINTS', with 'ITEMS' being the active tab. The main content area lists products. It starts with '1 Card Product' and then shows a list of items. Each item is displayed in a compact summary format, including the product name, a small identifier, a stock number, MSRP, and quantity.

| SUMMARY | CATEGORIES | ITEMS | PRICE POINTS |
|------------------------------|------------|--------------|--------------|
| 1 Card Product | | | |
| Card Greeting | | | |
| 349-JW-018F | | 123456789012 | |
| MSRP | \$0.99 | Quantity | 6 |
| 4 Other Products | | | |
| Bev Napkin Sage Green | | | |
| 3-BEV-1234 | | 123456789012 | |
| MSRP | \$0.99 | Quantity | 24 |
| Bev Napkin Sea Blue | | | |
| 3-BEV-1235 | | 123456789012 | |
| MSRP | \$0.99 | Quantity | 2 |
| Bev Napkin Egg White | | | |

Everyday Credit & Tally

Each price point is shown, with the quantity of products in each and totals.

| Summary | | Edit | Confirm |
|-------------------------|------------|-----------------|--------------|
| Everyday Credit | | | |
| Summary | CATEGORIES | ITEMS | PRICE POINTS |
| Innovation Products | | | |
| \$0.99 | ★ | 6 Quantity | |
| \$8.20 | | \$4.49 | |
| Retail Total | | Wholesale Total | |
| Non-Innovation Products | | | |
| \$0.99 | | 16 Quantity | |
| \$15.84 | | \$11.04 | |
| Retail Total | | Wholesale Total | |
| \$1.99 | | 4 Quantity | |
| \$7.96 | | \$5.16 | |
| Retail Total | | Wholesale Total | |

Thank You