

Installation, Backorder and Shipment

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Sep 22, 2015

Hallmark

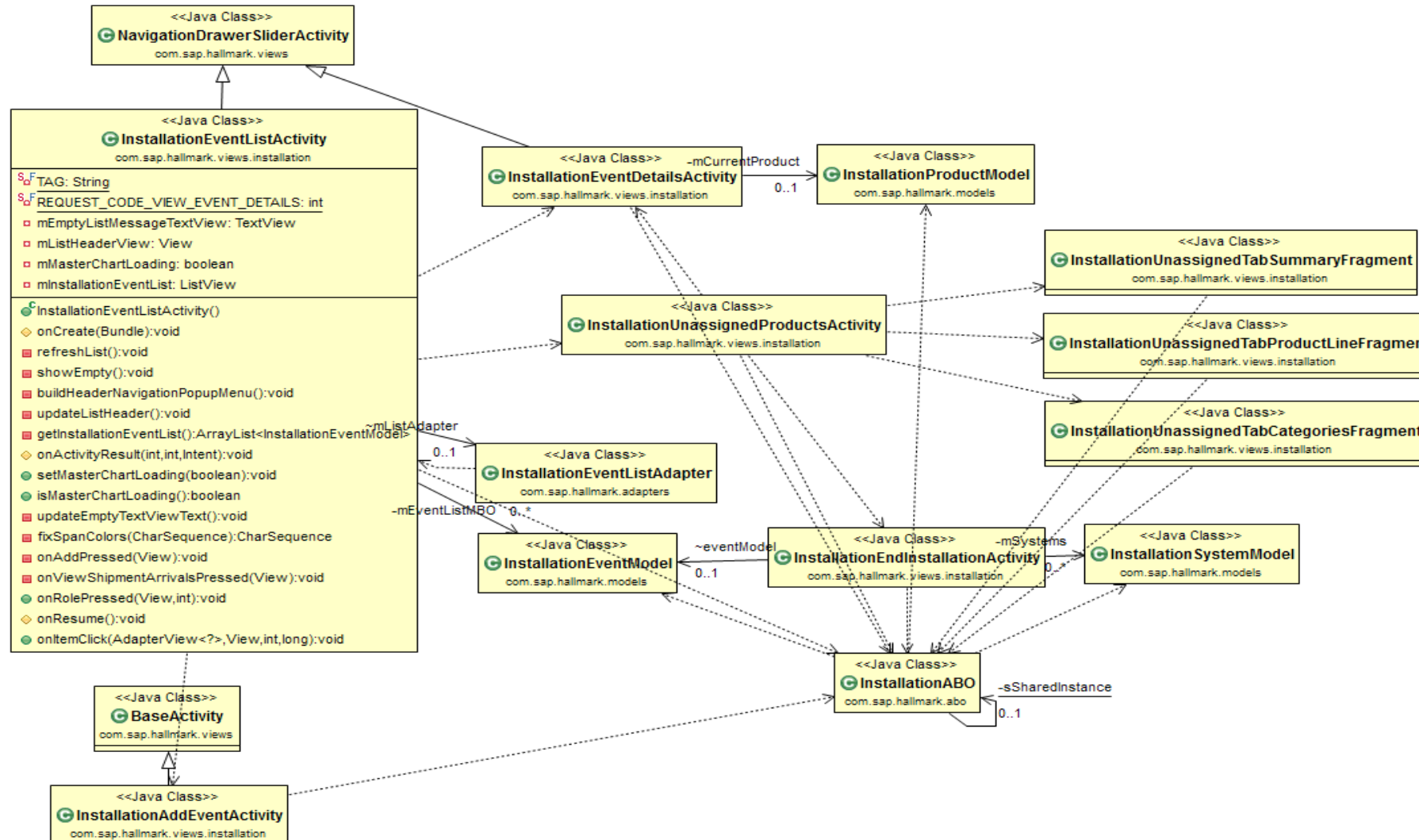


Agenda

- **General Program Structure**
- **Dependencies**
- **Packages**
- **Interfaces and Classes**
- **Store Installation**
- **Installation Event Detail**
- **Installation Unassigned Product**
- **Backorder**
- **Shipment**
- **Shipment Status Mapping**
- **Shipment Details**

Installation

Store Installation General Program Structure



Installation Dependencies

The functionality has dependencies on the following activities:

- DataWedge
- Lookup

Packages related to Installation

The following packages are created to support this functionality:

- `com.sap.hallmark.views.installation`
- `com.sap.hallmark.adapters`
- `com.sap.hallmark.presenter`
- `com.sap.hallmark.abo`

Interfaces and Classes (Installation)

Object Type	Object	Short Text/Comment
Class	InstallationAddEventActivity	Creates the installation event
Class	InstallationEventDetailsActivity	Shows the details of an installation event
Class	InstallationEventListActivity	Shows the installation event list in the Installation feature set
Class	InstallationThirdPartyInfoActivity	Presents the user interface to select the third-party activity and for ending an installation
Class	InstallationEndInstallationActivity	Presents the user interface for ending an installation
Class	InstallationUnassignedProductsActivity	Summary activity for Installations
Fragment	InstallationUnassignedTabSummaryFragment	Summary fragment that displays a brief information about the unassigned product
Fragment	InstallationUnassignedTabCategoriesFragment	Summary fragment that displays unassigned products based on categories
Fragment	InstallationUnassignedTabPricePointsFragment	Summary fragment that displays unassigned products based on the price point
Fragment	InstallationUnassignedTabProductLineFragment	Summary fragment that displays unassigned products based on the product line

Installation Steps

1) Look first in Revision (Reserved) Master Charts to provide location: show this location

else

2) Look in Current Master Charts for item marked `TAR_FOR_RVSN_IND = 'N'`, if found show location and “Not part of Revision”:

else

3) If `TARGETED_FOR_RVSN_IND = 'Y'`, this is considered not in `CURRENT_INVENTORY_POCKET` for revision purposes: continue to next step as if item not found in `CURRENT_INVENTORY_POCKET`

4) Look in Revision_Backup MBO for BU_Partner, Product: if found: show as FRONT item

else

5) Look in Product Table: if item is `Revision_Obsolescence_Ind = 'B'` or `'H'`, it is Obsolete: discontinued

else

6) Otherwise, Product is NO HOME.

Primary Inventory Pocket

```
private InventoryPocketModel getPrimaryInventoryPocket(String storeId,
String prodID, GenericList<InventoryPocket> revisionPocketList,
GenericList<InventoryPocket> currentPocketList) {

    // GenericList<InventoryPocket> tempList = new
    // GenericList<InventoryPocket>();

    if (revisionPocketList != null && revisionPocketList.size() > 0) {

        // If there are any revision pockets
        // we can return them immediately
        InventoryPocketModel invModel = convertMBOtoModel(revisionPocketList
            .get(0));
        Log.d(InstallationABO.TAG, "Revision Pocket picked : "
            + getPocketData(invModel));
        return invModel;
    }
}
```

Primary Inventory Pocket

```
} else if (currentPocketList != null && currentPocketList.size() > 0) {  
  
    // If there is any current pocket  
    // with targeted for revision indicator 'N'  
    // and not cancelled  
    // we can pick it  
    for (InventoryPocket currentPocket : currentPocketList) {  
        if (currentPocket.getTargeted_For_Revision_Ind().equals(  
            InstallationABO.INDICATOR_FALSE)  
            && !currentPocket.getMC_Item_Sts_Cd().equals(  
                InstallationABO.INDICATOR_CANCELLED)) {  
            InventoryPocketModel invModel = convertMBOtoModel(currentPocket);  
            Log.d(InstallationABO.TAG,  
                "Current Pocket picked (RevsnIndicator - False : Cancelled - False ) : "  
                + getPocketData(invModel));  
            return invModel;  
        }  
    }  
    // If no such pockets found  
    // search for pockets with targeted for revision 'N'  
    // and cancelled products  
    // and return it  
    for (InventoryPocket currentPocket : currentPocketList) {  
        if (currentPocket.getTargeted_For_Revision_Ind().equals(  
            InstallationABO.INDICATOR_FALSE)  
            && currentPocket.getMC_Item_Sts_Cd().equals(  
                InstallationABO.INDICATOR_CANCELLED)) {  
            InventoryPocketModel invModel = convertMBOtoModel(currentPocket);  
            Log.d(InstallationABO.TAG,  
                "Current Pocket picked (RevsnIndicator - False : Cancelled - True ) : "  
                + getPocketData(invModel));  
            return invModel;  
        }  
    }  
}
```

Primary Inventory Pocket

```
// If no such pockets found
// search for pockets with targeted for revision 'N'
// and cancelled products
// and return it
for (InventoryPocket currentPocket : currentPocketList) {
    if (currentPocket.getTargeted_For_Revision_Ind().equals(
        InstallationABO.INDICATOR_FALSE)
        && currentPocket.getMC_Item_Sts_Cd().equals(
            InstallationABO.INDICATOR_CANCELLED)) {
        InventoryPocketModel invModel = convertMBOtoModel(currentPocket);
        Log.d(InstallationABO.TAG,
            "Current Pocket picked (RevsIndicator - False : Cancelled - True ) : "
            + getPocketData(invModel));
        return invModel;
    }
}
// Installation change
// If there are no current pockets with targeted for revision
// indicator 'N'
// then pick the current pocket which has revision backup pocket
// value
for (InventoryPocket currentPocket : currentPocketList) {
    // Insert RevisionBackupMBO logic
    InventoryPocketModel invModel = getEntryFromRevisionBkupFilePkt(
        storeId, prodID);
    if (invModel != null) {
        Log.d(InstallationABO.TAG,
            "Current Pocket picked (RevsIndicator - True : RevisionBkupPkt) : "
            + getPocketData(invModel));
        return invModel;
    }
    /*
    * if(!getRevisionBackupPocket(currentPocket).equals(IAppConstants
    * .EMPTY_STRING)) { return currentPocket; }
    */
}
// Installation change ends
}
```

Primary Inventory Pocket

```
else {  
  
    InventoryPocketModel invModel = getEntryFromRevisionBkupFilePkt(  
        storeId, prodID);  
  
    if (invModel != null) {  
        Log.d(InstallationABO.TAG,  
            "Current Pocket picked (RevsnIndicator - True : RevisionBkupPkt) : "  
                + getPocketData(invModel));  
        return invModel;  
    }  
  
}  
  
return null;
```

Installation

- Planned: Added for a store account, no action has been taken.
- In Progress: Has been partially installed or is still being installed.
- Completed: Has been installed but not yet tagged as activated by Hallmark.
- Confirmed (visible for 30 days afterwards):
- Completed installation.

The screenshot shows a mobile app interface for a Walmart store. At the top, the status is 'Installation' with a dropdown arrow, a plus icon, and a timer '00:20'. Below this, there are three event cards. The first card shows '15 Shipment Arrivals' with a 'View' button. The second card shows 'Event 28541' with a date '09 / 22 / 15' and a status 'IN PROGRESS'. The third card shows 'Event 3126671' with a date '03 / 30 / 15' and a status 'COMPLETE'. The fourth card shows 'Event 3168744' with a date '07 / 15 / 15' and a status 'COMPLETE'. Each event card also shows a role 'Crew Member' and a list of systems.

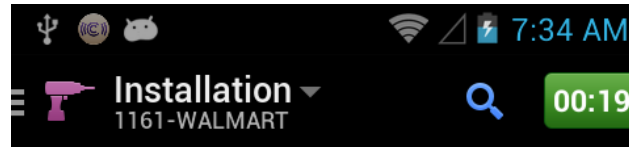
Event ID	Date	Status	Role	Systems
15 Shipment Arrivals				
28541	09 / 22 / 15	IN PROGRESS	Crew Member	No systems
3126671	03 / 30 / 15	COMPLETE	Crew Member	CFH CLASSIC COUNTER, WMT GIFT WRAP, CFH VALUE
3168744	07 / 15 / 15	COMPLETE	Crew Member	WALMART STATIONARY, CFH KIDS ZONE

Installation: Add Event

- Adds the event to the Installation event list.
- The user can enter an event ID if they have one. If no event ID is entered, a dummy one is created.
- Tap Installation Role: Reveal options for installation role, including Event Leader.

The screenshot shows a mobile application interface for adding an event. At the top, there is a status bar with icons for USB, Wi-Fi, and battery, and the time 7:34 AM. Below the status bar is a dark header with the text 'Add Event' and two buttons: 'Cancel' and 'Add'. The main content area has a light gray background. It starts with the label 'EVENT ID' followed by a text input field with the placeholder text 'Enter Event ID'. Below this is a section titled 'Installation Role' which contains a blue button with the text 'Crew Member' and a downward arrow, indicating a dropdown menu. At the bottom of the screen is a numeric keypad with buttons for digits 1 through 9, 0, a 'Delete' button, a 'Space' button, and an 'Add' button.

Installation: Begin



Begin your installation for
Event 28541

When ready, please scan
products for installation.

Activate Scanner

Installation: Add Product by Pocket ID

USB

Bluetooth

Android

Wi-Fi

Signal

Battery

7:36 AM

Add Product

Installations

Cancel

Add

POCKET ID

STOCK #

UPC

Manual Lookup

Enter Pocket ID

Activate Scanner

Installation: Add Product by Stock

USB

Android

7:36 AM

Add Product

Installations

Cancel

Add

POCKET ID

STOCK #

UPC

Prefix

Alpha

Basic

PPPP

AAA

XXXX

1

2

3

4

5

6

7

8

9

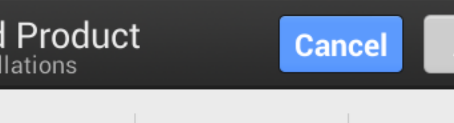
0

Delete

Space

Add

Installation: Add Product by UPC



7:36 AM

Add Product

Installations

Cancel Add

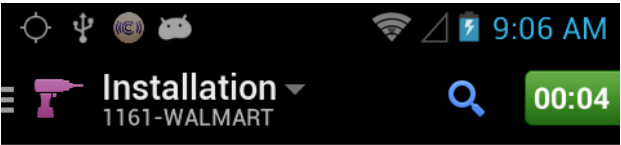
POCKET ID STOCK # UPC

UPC Supplemental UPC

XXXXXXXXXXXXXXXX XXXXXX

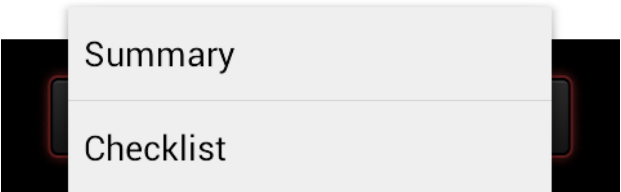
1	2	3
4	5	6
7	8	9
	0	
Delete	Space	Add

Installation: Menu Options

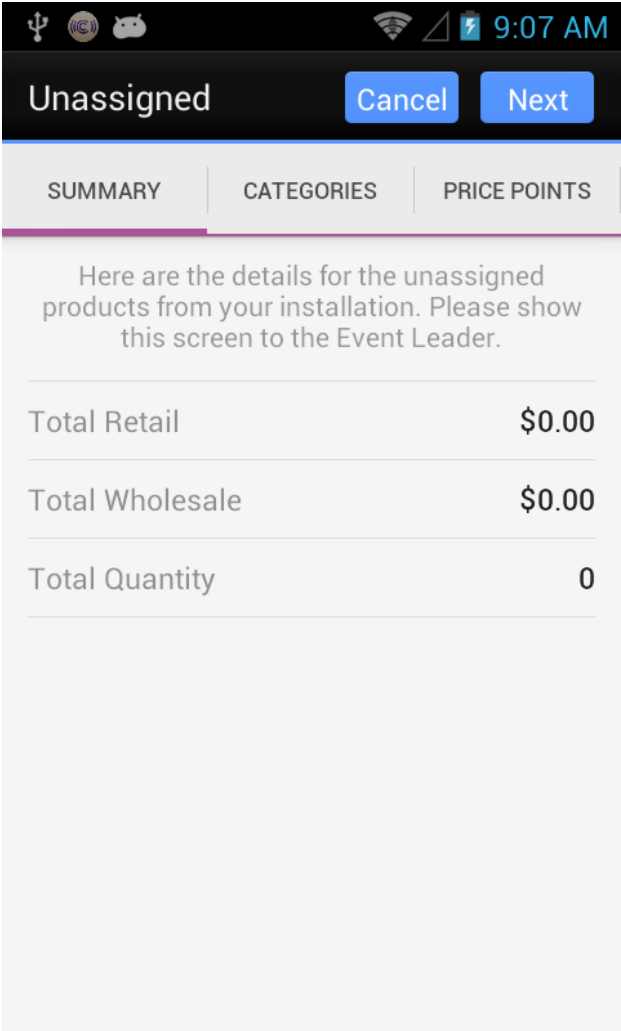


Begin your installation for
Event 28541

When ready, please scan
products for installation.

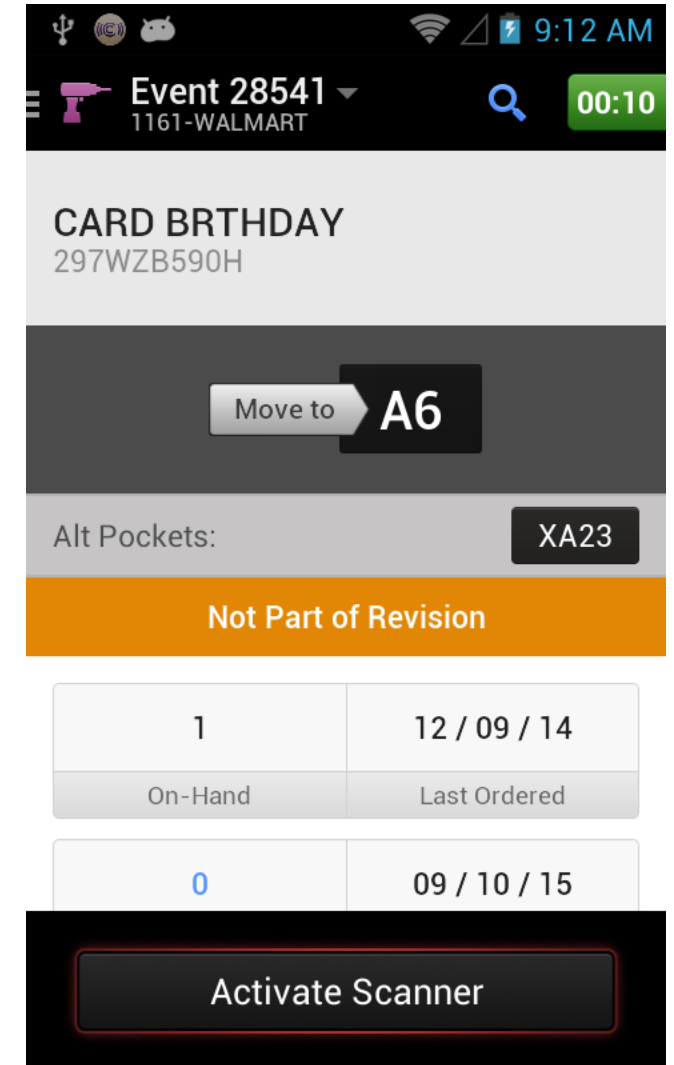


Installation: Unassigned



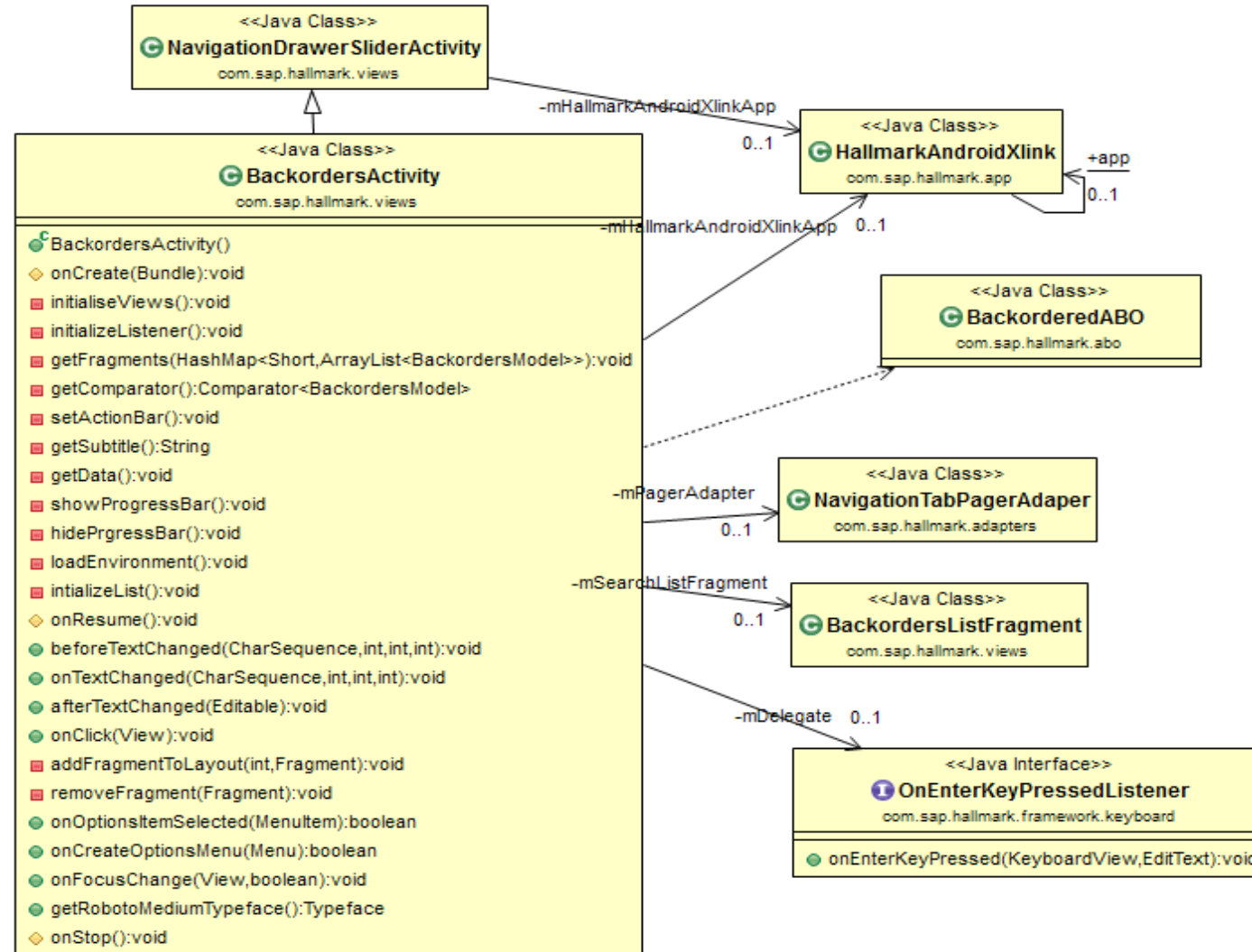
Installation: Unassigned

- If the scanned product is to be moved to a new pocket, it is listed.
- A brief summary of product details are shown.



Backorder

Backorder General Program Structure



Packages related to Backorder

The following packages are created to support this functionality:

- `com.sap.hallmark.views`

Interfaces and Classes (Backorder)

Object Type	Object	Short Text/Comment
Class	BackordersActivity	Common Activity for Backorders and Cancelled Products. It displays all of the Backordered and Cancelled orders. In addition, it splits all of the products into the following three categories: Cards, Gift Wraps, and Others.
Class	BackordersListFragment	Represents a list fragment that displays the list of Backorders and Cancelled orders
Class	BackorderedABO	Backorders ABO class that integrates with the MBOs. The data <u>can be</u> read from the MBO and is provided through an interface between the MBO layer and the view layer for Backorders and Cancelled orders.

Backorders : Cards

- Backorders are separated by three categories. The tab-bar only appears if there are more than one category of backorders to list.
- The status of an order, either "Backordered" or "Canceled".

</

Backorders : Gift Wrap

Backorders

1161-WALMART

00:39

CARDS

GIFT WRAP

OTHER

<div>CL15</div>	<div>Tissue 6s...</div> <div>3KFT113</div> <div>BACKORDERED</div>
1	09 / 16 / 15
Quantity	Order Date

<div>CL19</div>	<div>Tissue 6s...</div> <div>3KFT1009</div> <div>BACKORDERED</div>
1	09 / 09 / 15
Quantity	Order Date

<div>CL36</div>	<div>Bag Mg...</div> <div>3KFB56</div> <div>BACKORDERED</div>
1	09 / 16 / 15
Quantity	Order Date

Backorders : Others

Backorders

1161-WALMART

00:40

CARDS

GIFT WRAP

OTHER

Non-cards

KGD3

Plush S...

1MJB2846

BACKORDERED

1

06 / 22 / 15

Quantity

Order Date

Stationery

IX808

Note Ty...

799WTU...

BACKORDERED

1

09 / 16 / 15

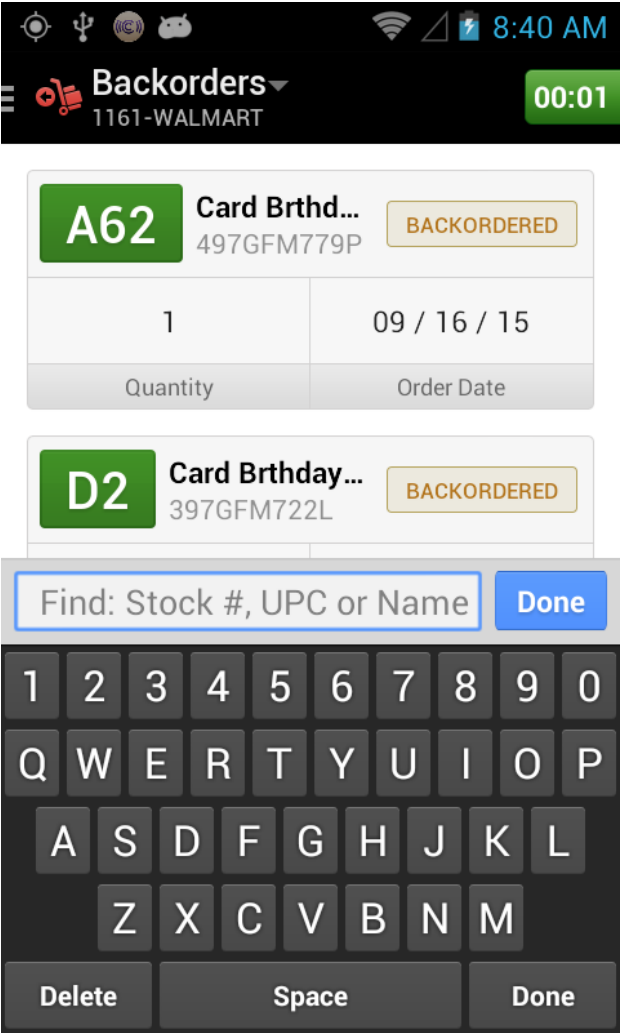
Quantity

Order Date

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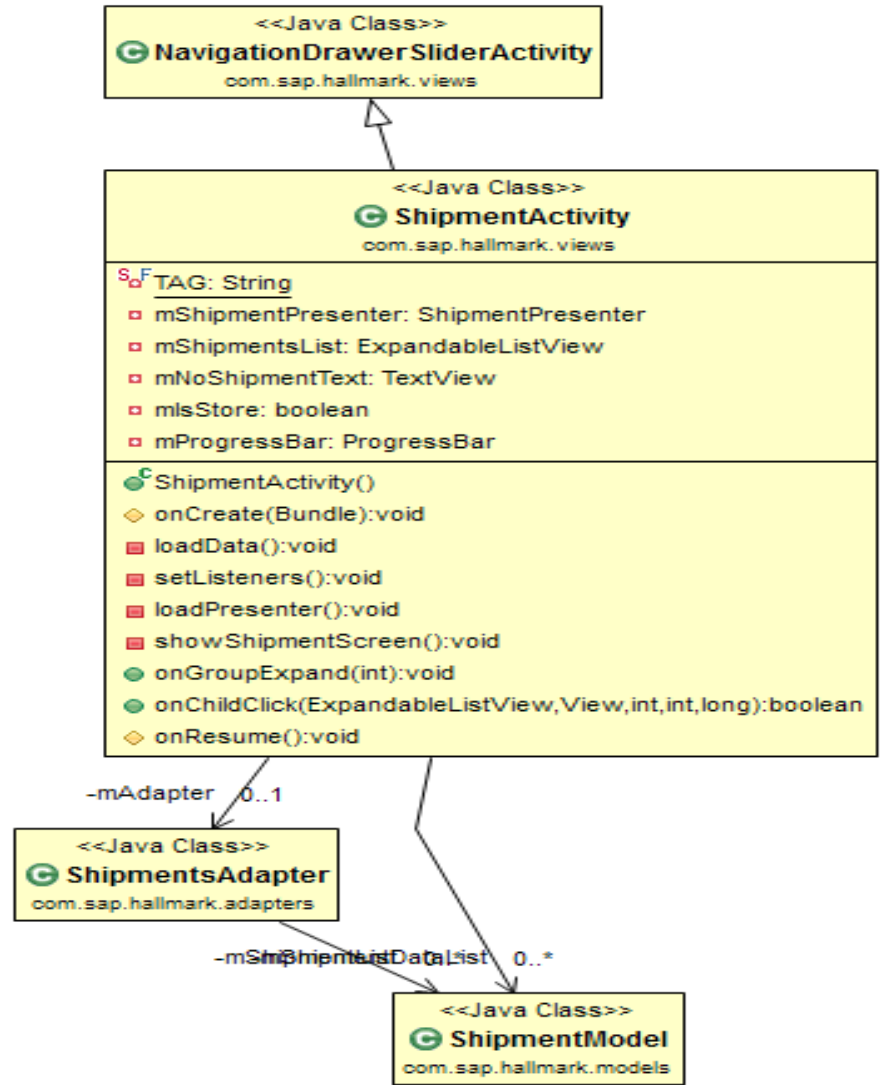
Customer 28

Backorders : Find



Shipment

Shipment General Program Structure



Installation Dependencies

The functionality has dependencies on the following activities:

- **LookupDetailsAcitivity**

Packages related to Shipment



The following packages are created to support this functionality:

- `com.sap.hallmark.views`
- `com.sap.hallmark.adapters`
- `com.sap.hallmark.models`
- `com.sap.hallmark.presenter`
- `com.sap.hallmark.abo`

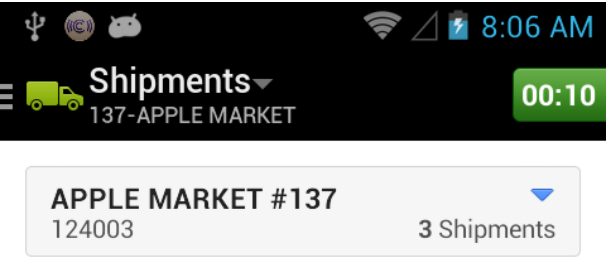
Interfaces and Classes (Shipment)

Object Type	Object	Short Text/Comment
class	ShipmentActivity	Activity to display shipment details for the checked-in store or for all of the stores
class	ShipmentArrivalActivity	Activity for shipment arrivals – to have instances of both shipment inside and outside the store running in parallel
class	ShipmentsAdapter	Adapter to display shipment information. The store detail is displayed in the expandable group view and the shipment for the store is displayed in the child view.
class	ShipmentDetailsActivity	Activity to display shipment details for a shipment ID
class	ShipmentModel	Model used for populating the details of shipment for a customer
class	ShipmentDetailModel	Model to hold the details of a shipment
class	ShipmentOrder	Model to hold Shipment carton and order information
class	ShipmentOrderAdapter	Adapter for Shipment Orders
class	ShipmentABO	ABO class that fetches the data from the shipment MBO and passes it to the presenter
class	ShipmentPresenter	Presenter class that fetches the data from the ABO and passes it to the UI layer

Shipment Status Mapping

SN	Arrival Status of cartons (database arrival status)	Checkin Status of cartons	Status Symbol
1	All cartons arrived	All cartons checked in	✓✓
2	All cartons arrived 	Some cartons checked in	✓✓
3	All cartons arrived	No checkins	✓
4	Some cartons arrived (i.e some cartons are IN transit)	All cartons checked in	✓✓
5	Some cartons arrived (i.e some cartons are IN transit)	Some cartons checked in	✓✓
6	Some cartons arrived (i.e some cartons are IN transit)	No checkins	✗
7	No cartons arrived (i.e all cartons are IN transit)	All cartons checked in	✓✓
8	No cartons arrived(i.e all cartons are IN transit)	Some cartons checked in	✓✓
9	No cartons arrived(i.e all cartons are IN transit)	No checkins	✗
10	NON-FEDEX –(All cartons arrived, Some cartons arrived, No cartons arrived)	NON-FEDEX- (All cartons checked in, Some cartons arrived, No cartons	

Shipment Listing



Shipment: Inside Store

8:06 AM

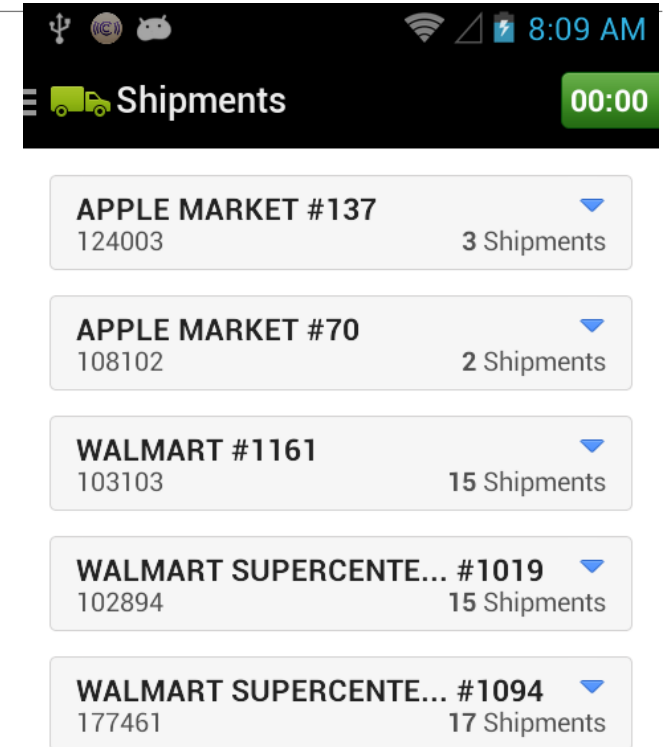
Shipments

137-APPLE MARKET

00:10

Shipment: Outside Store

- Each shipment arrival has its information collected together, with the date most prominent.
- Tap: Go to Shipment Details.
- The status of the confirmation is shown, with a green tick for Yes/Confirmed and a cross shown for No/Not confirmed.
- For couriers that don't support this, a greyed out truck is shown instead.



Shipment: Details

8:16 AM

Shipments

137-APPLE MARKET

00:07

524752006

Shipment BOL#

DETAILS

CARTONS

09 / 04 / 15	09 / 09 / 15
Shipped Date	Estimated Arrival

\$391.61	1
Value	Carton Quantity

Shipment: Details Cartons

- Status can be
 - In transit
 - Arrived
 - Check-in

8:17 AM

Shipments

137-APPLE MARKET

00:08

524752006

Shipment BOL#

DETAILS

CARTONS

Carton 197391001

CHECK'D IN

Type

Everyday

Check In Date

09 / 15 / 15

Tracking #

00000092003315063075

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Customer

40



Thank you

Contact information:

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Bangalore , India

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The Grid

Headline area

White space

Drawing area