Product Design

A comprehensive logistics management application using Cloud Platform

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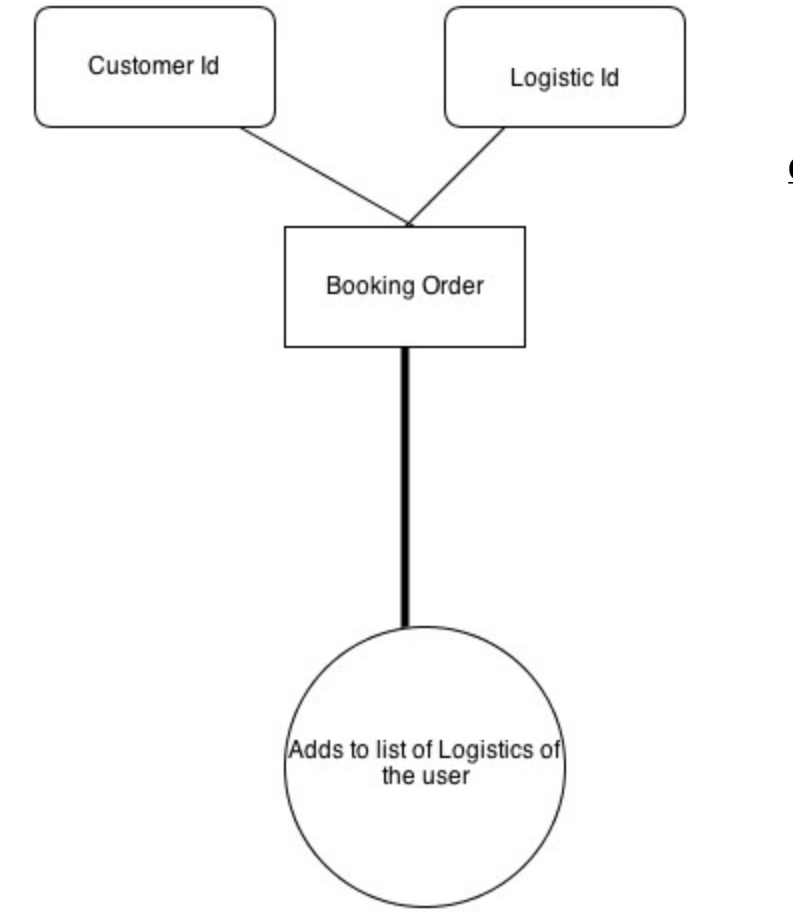
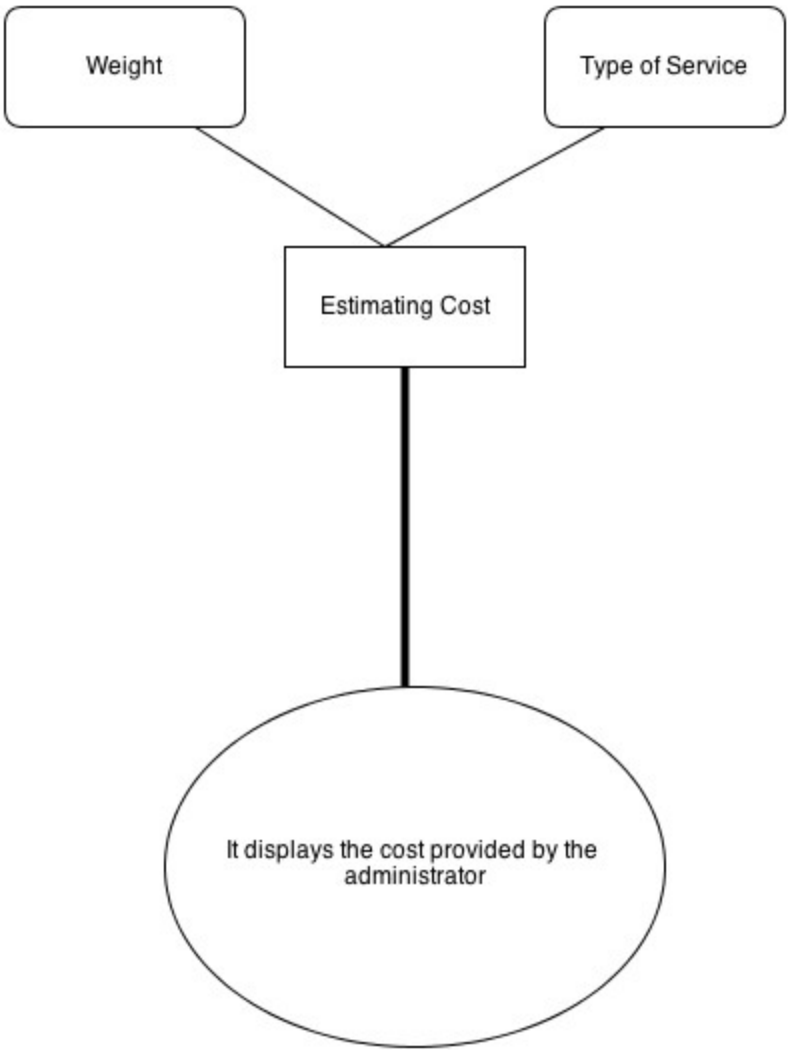
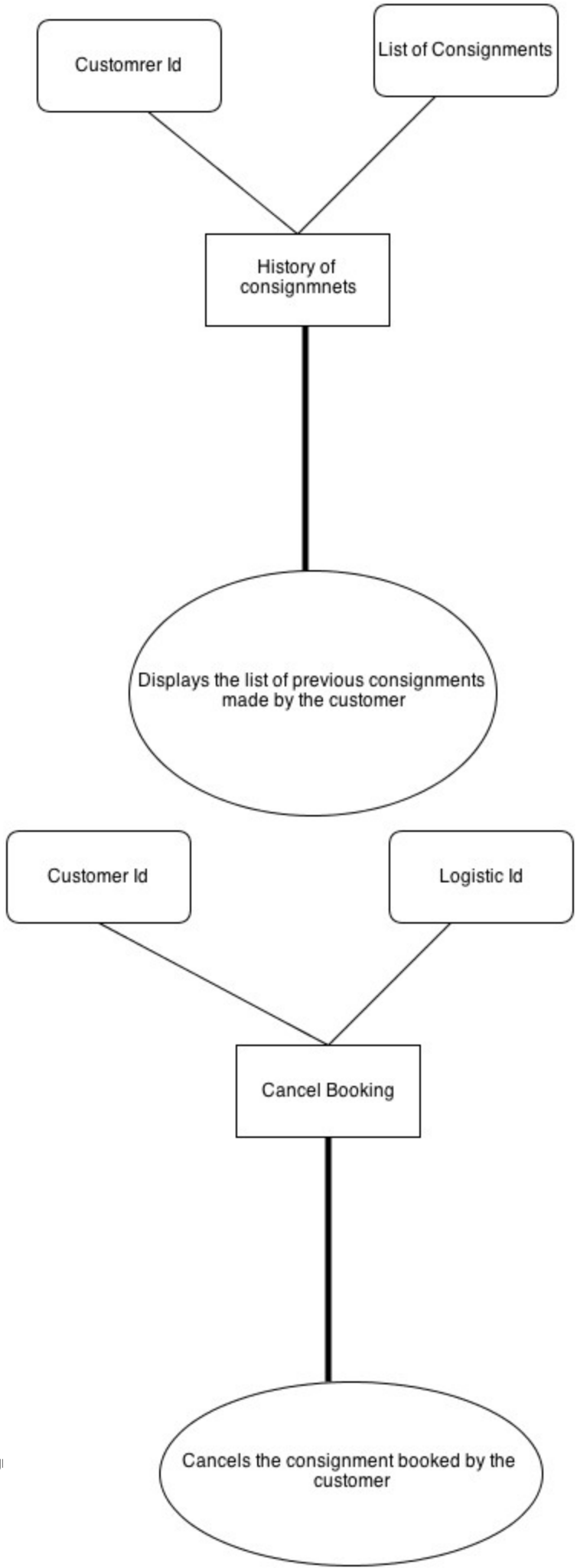
Architectural Model

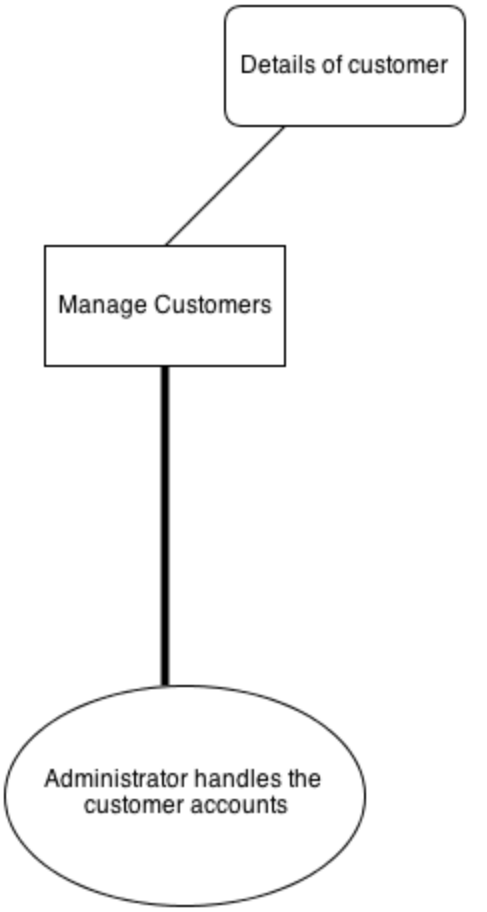
Booking order	Component state • Maintains customer id and logistics id. Component behavior • It adds the logistics to the list of consignments of the customer.
Estimating Cost	Component state • Maintains weight, type of service for the logistics. Component behavior • Provides ability to the administrator to estimate the cost based on above parameters.
Customer login	Component state • It has the user name and password values. Component behavior • It validates the entry made by the customer and allows him to be logged in if the details are correct.
Viewing_Previous Consignments	Component state • It has the record of previous consignments. Component behavior • It displays the list of consignments made by the customer.
Updating Details	Component state • It has the details of the logistics Component behavior • The administrator wishes to update the details of a consignment.
Manage Users	Component state • It has the details of the customer whose account has to be managed. Component behavior • The administrator can handle the user accounts.

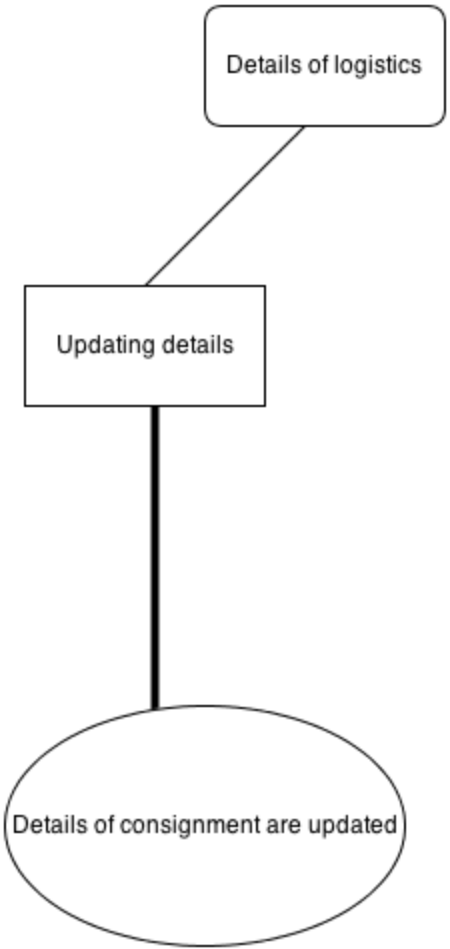
Component Diagram:



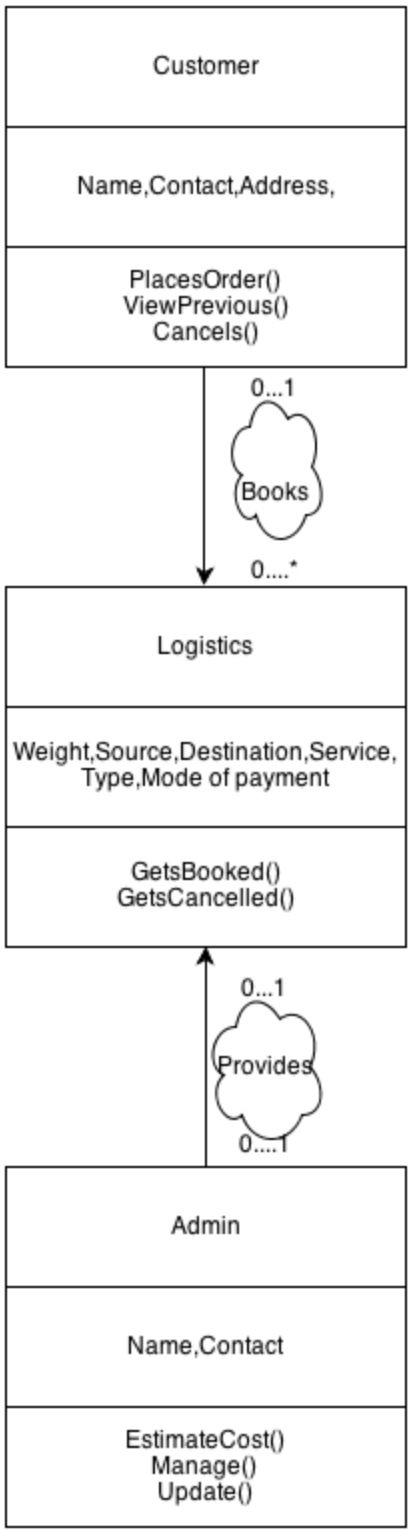



Customrer Id
List of Consignments
History of consignmnets
Displays the list of previous consignments made by the customer
Customer Id
Logistic Id
Cancel Booking
Cancels the consignment booked by the customer

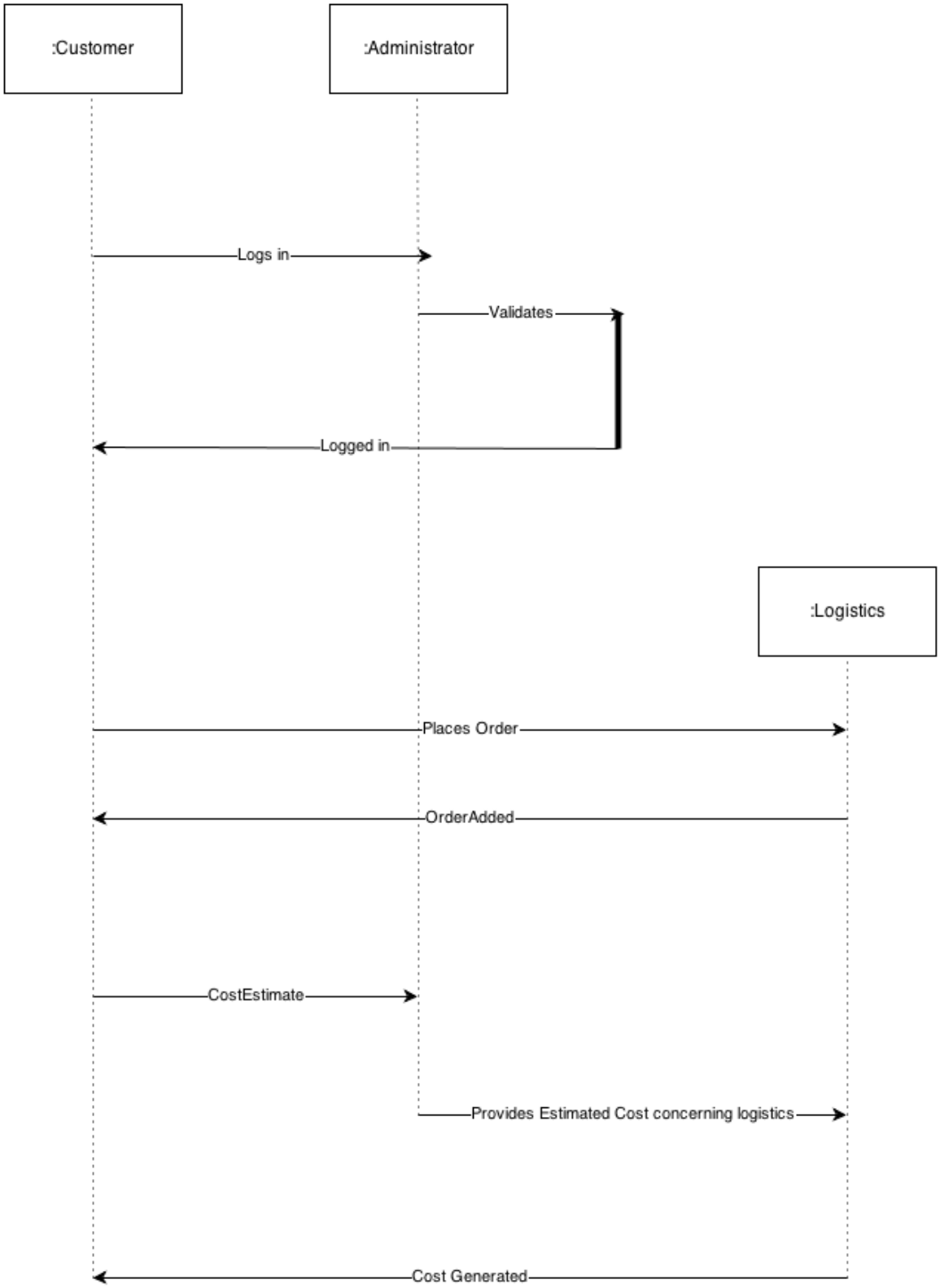

Details of customer
Manage Customers
Administrator handles the customer accounts

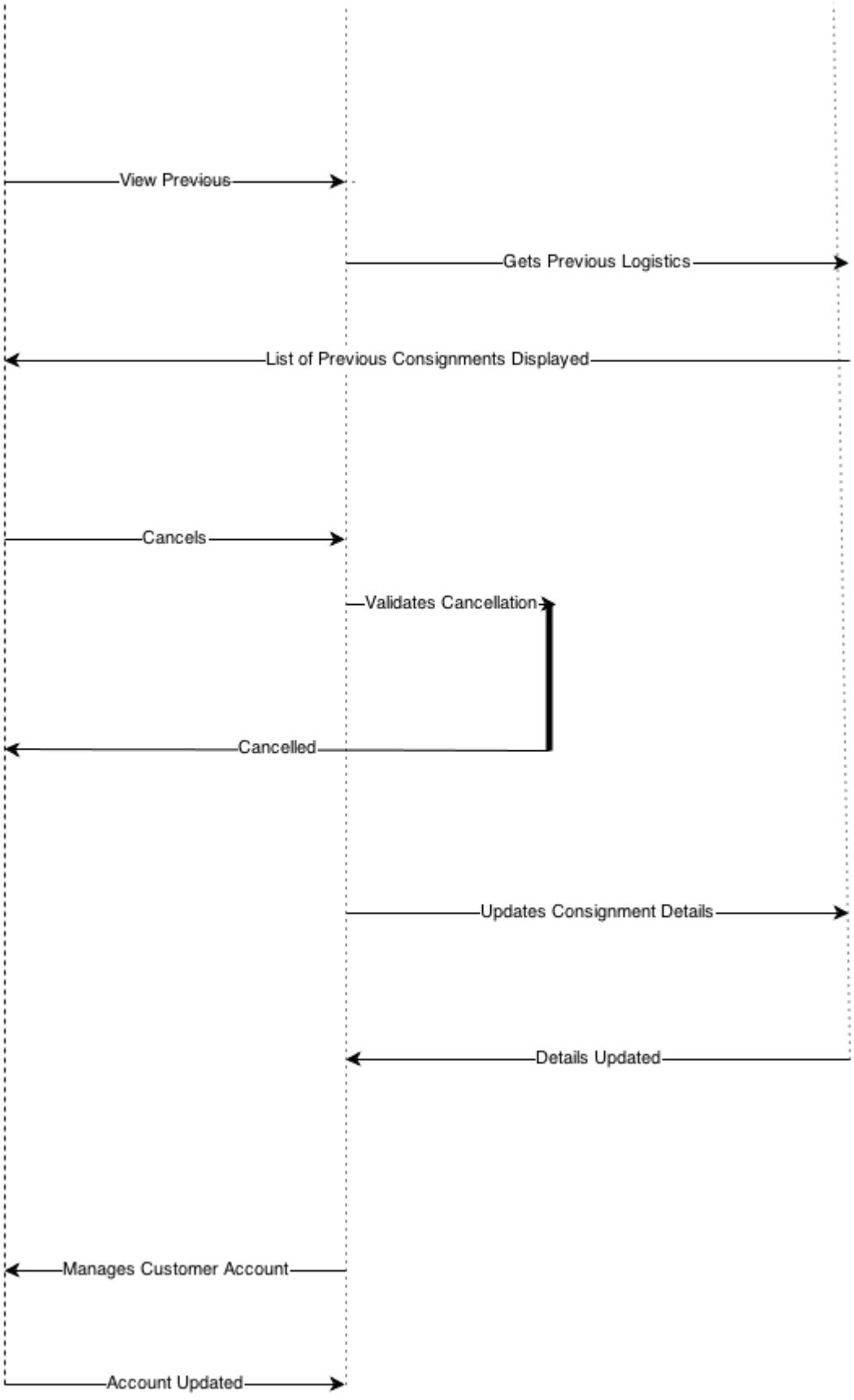

Details of logistics
Updating details
Details of consignment are updated

Class Diagram



Sequence Diagram(s)




View Previous
Gets Previous Logistics
List of Previous Consignments Displayed
Cancels
Validates Cancellation
Cancelled
Updates Consignment Details
Details Updated
Manages Customer Account
Account Updated

Design Rationale

1. Firstly, we thought of having two different accounts for administrator and the dealer.

   But, then we finalized our decision of having a single type of account for these two as it would be easy to maintain the details of the consignment and manage the account simultaneously.

2. We initially had the plan of a drop down list for logistic source and destination.

   But, now we have a lookup field for logistic source and destination.

3. We have provided the administrator with an interesting feature of 'estimating cost' so that customer can get a rough idea of the expenses.

4. Many times, it is observed that a customer doesn't realise till the end that there was no such need of a particular consignment.

   So, there is additional feature of canceling the consignment.

5. Current location of a consignment keeps changing.

   Therefore, administrator has the option of 'updating details of consignment'.

6. Customers always want to have a look on their previous consignments to remember what all they have ordered.

   So, option of 'view previous consignments' is a good option for them.