

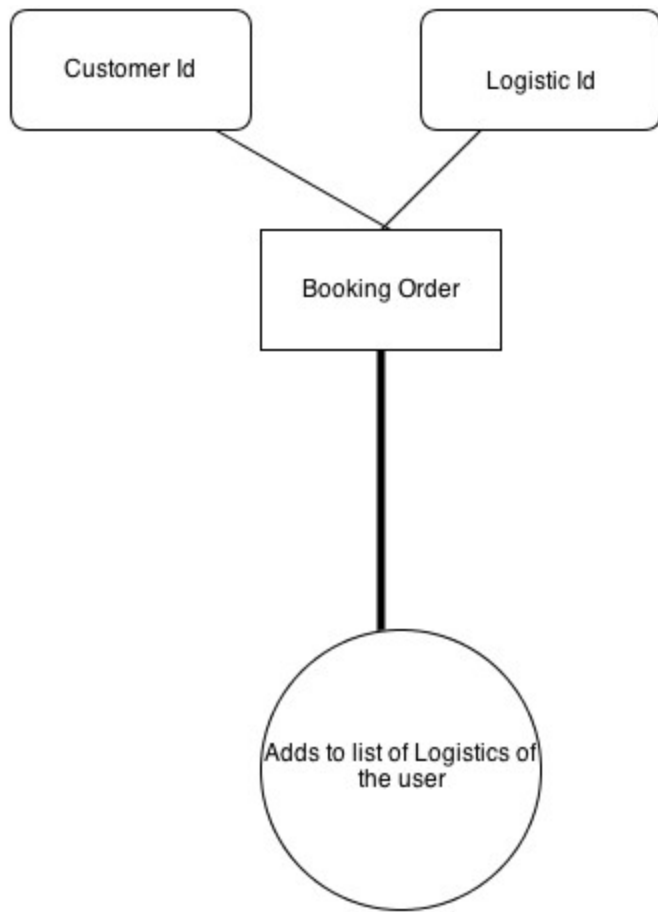
Product Design

A comprehensive logistics management application using Cloud Platform

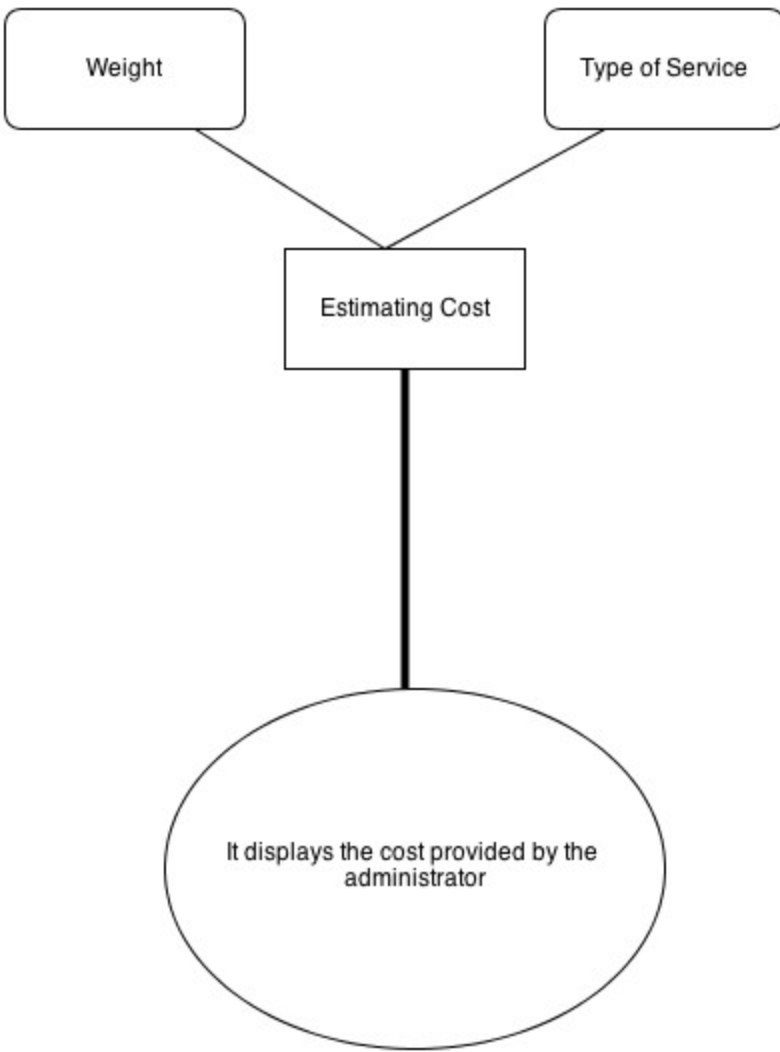
Team 29 Aabhas Majumdar , Saurabh Kathpalia and Aayush Saxena

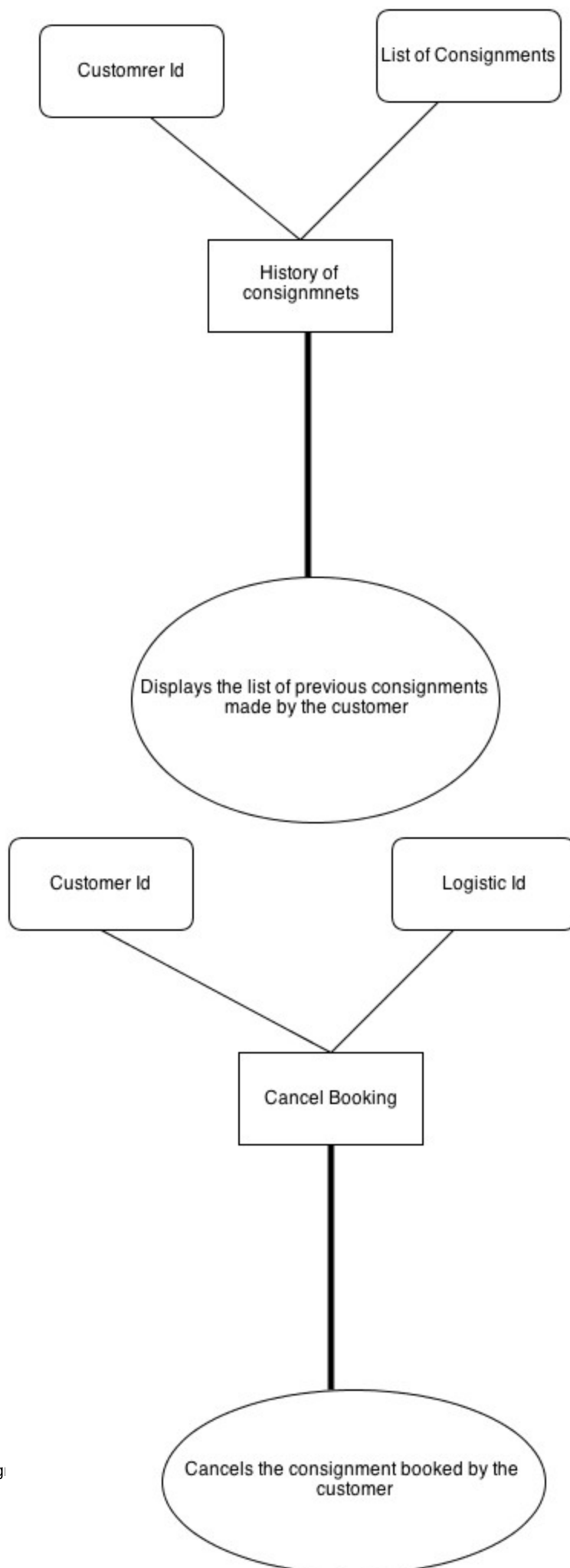
Architectural Model

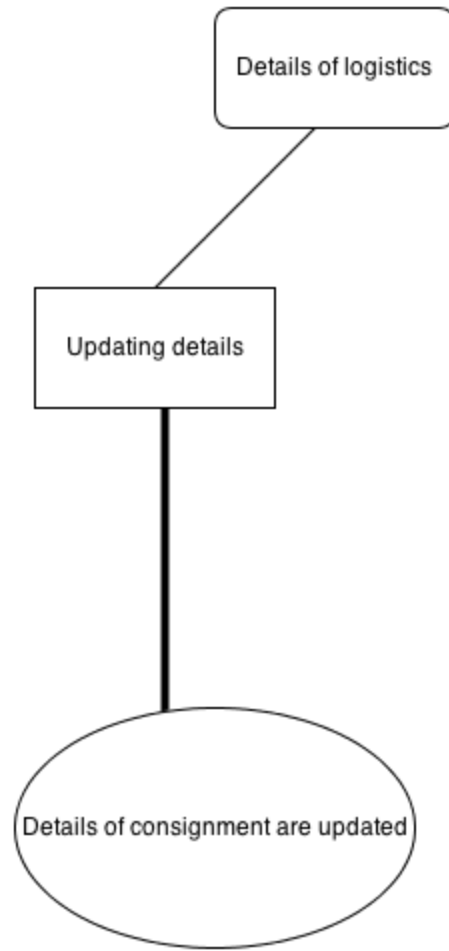
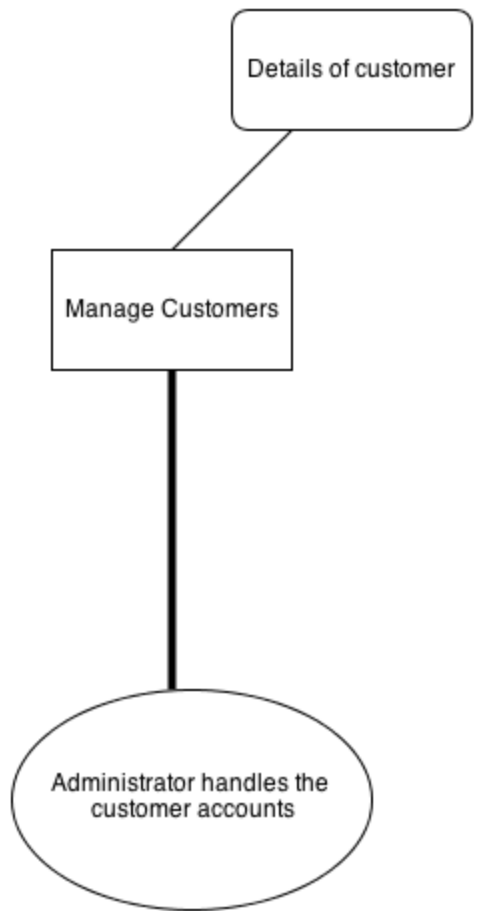
Booking order	<p>Component state</p> <ul style="list-style-type: none">• Maintains customer id and logistics id. <p>Component behavior</p> <ul style="list-style-type: none">• It adds the logistics to the list of consignments of the customer.
Estimating Cost	<p>Component state</p> <ul style="list-style-type: none">• Maintains weight, type of service for the logistics. <p>Component behavior</p> <ul style="list-style-type: none">• Provides ability to the administrator to estimate the cost based on above parameters.
Customer login	<p>Component state</p> <ul style="list-style-type: none">• It has the user name and password values. <p>Component behavior</p> <ul style="list-style-type: none">• It validates the entry made by the customer and allows him to be logged in if the details are correct.
Viewing_Previous Consignments	<p>Component state</p> <ul style="list-style-type: none">• It has the record of previous consignments. <p>Component behavior</p> <ul style="list-style-type: none">• It displays the list of consignments made by the customer.
Updating Details	<p>Component state</p> <ul style="list-style-type: none">• It has the details of the logistics <p>Component behavior</p> <ul style="list-style-type: none">• The administrator wishes to update the details of a consignment.
Manage Users	<p>Component state</p> <ul style="list-style-type: none">• It has the details of the customer whose account has to be managed. <p>Component behavior</p> <ul style="list-style-type: none">• The administrator can handle the user accounts.



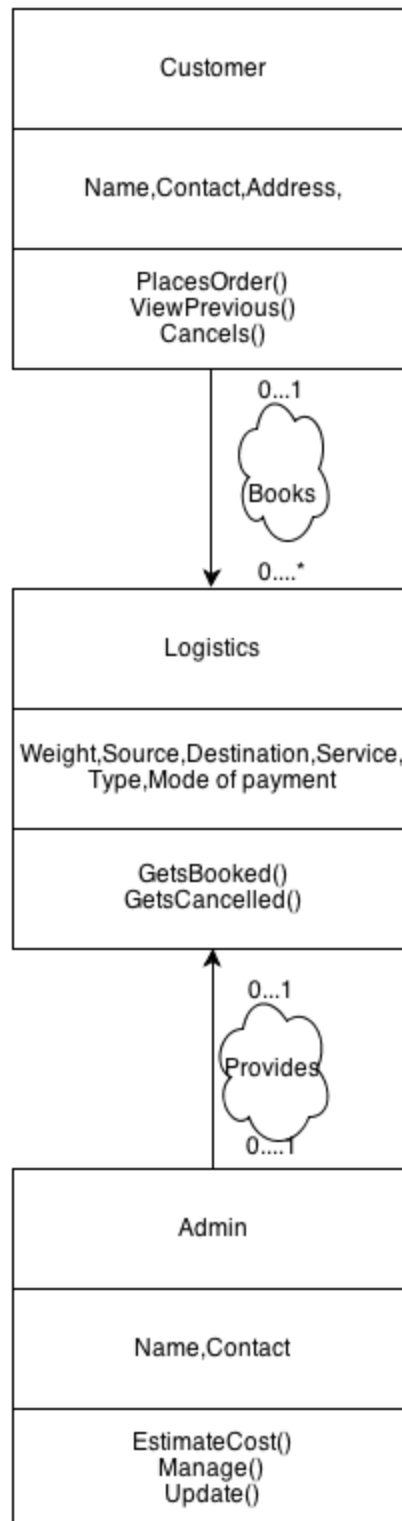
Component Diagram:



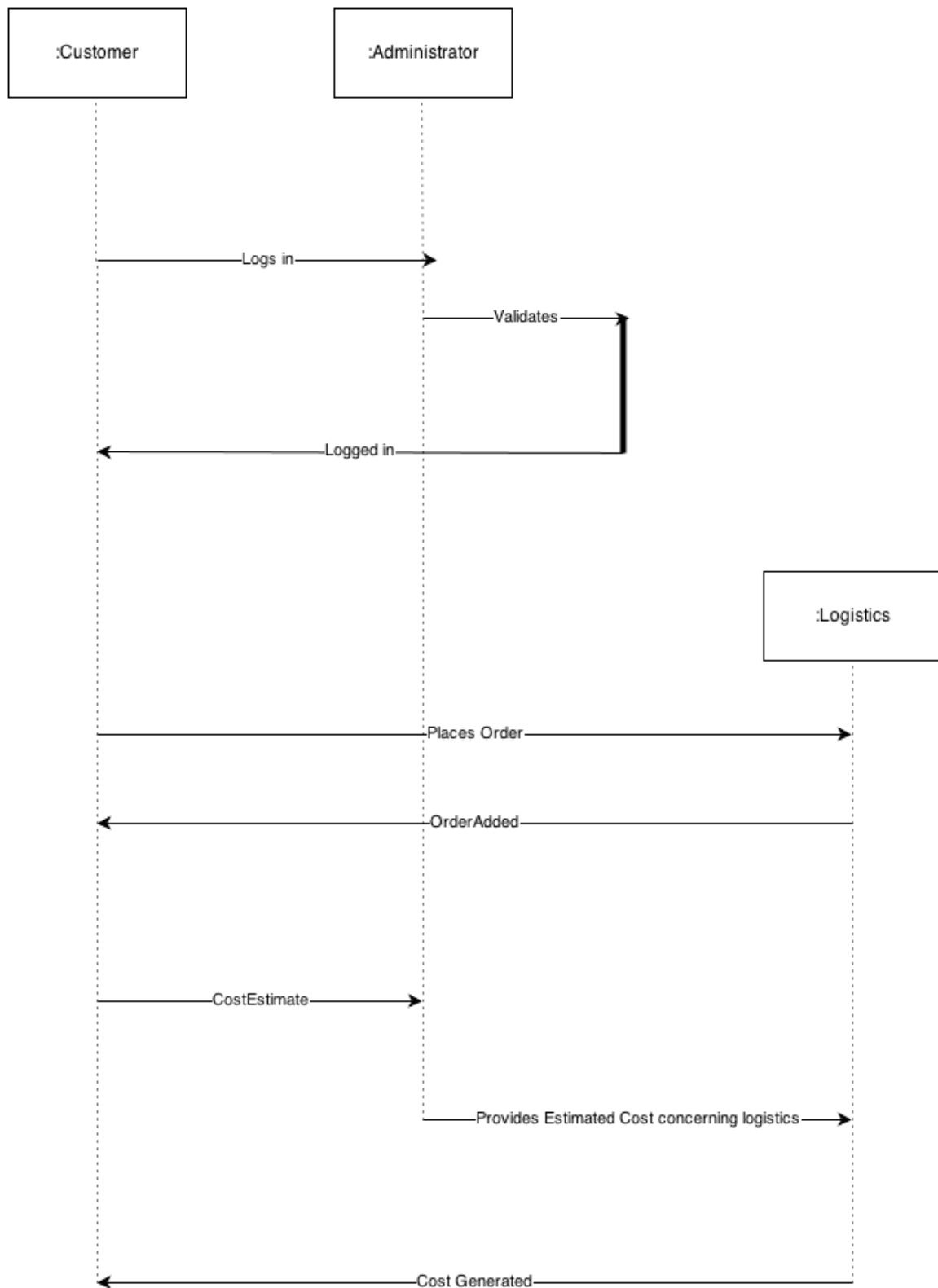


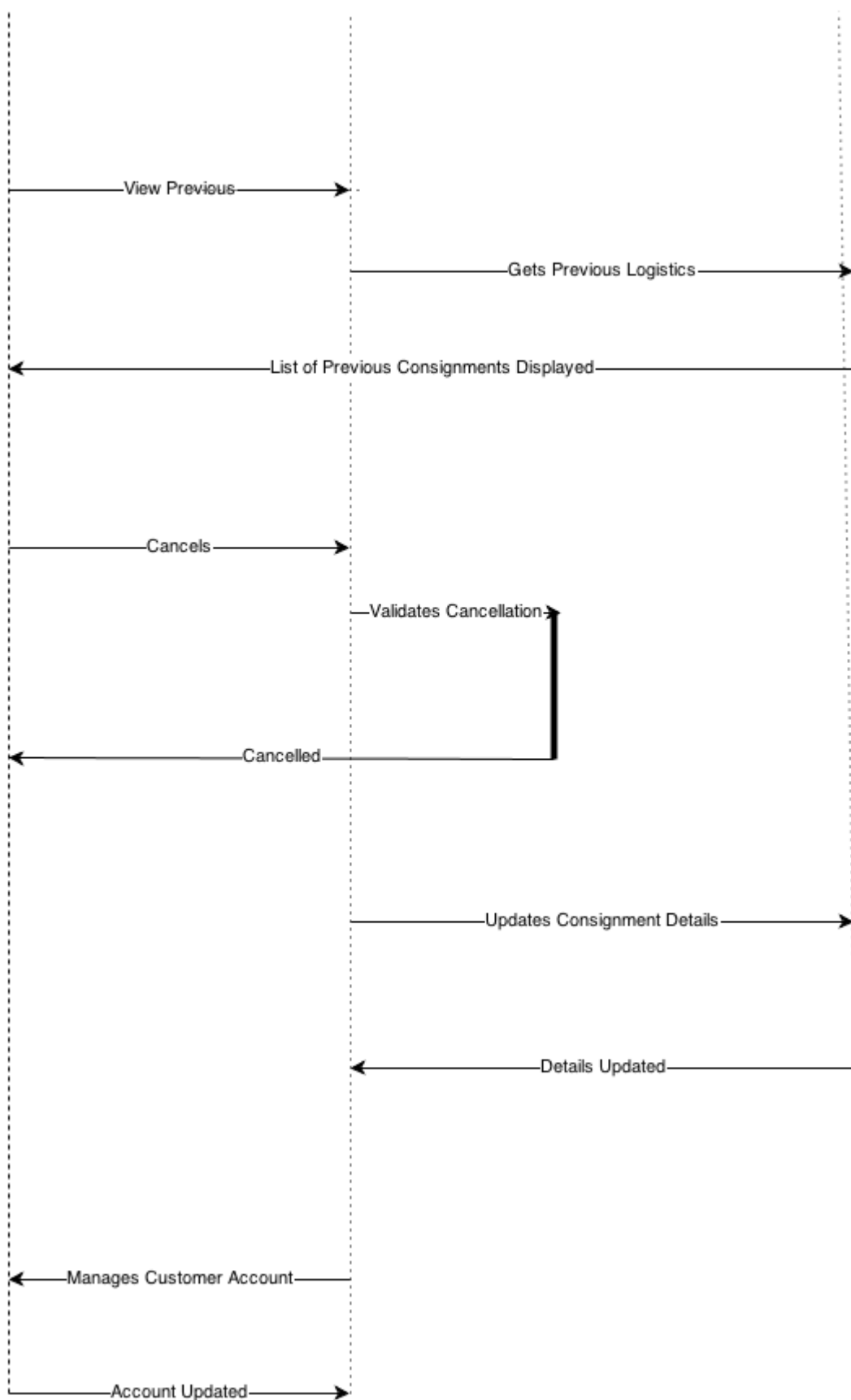


Class Diagram



Sequence Diagram(s)





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 have provided the administrator with an interesting feature of 'estimating cost' so that customer can get a rough idea of the expenses.
3. Many times, it is observed that a customer doesn't realize till the end that there was no such need of a particular consignment.
So, there is additional feature of canceling the consignment.
4. Current location of a consignment keeps changing.
Therefore, administrator has the option of 'updating details of consignment'.
5. 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.