

## Software Requirements Specification Document

# **A comprehensive logistics management application using Cloud Platform**

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### **Brief problem statement**

We are going to implement this project using Progress Rollbase which is a platform as a service software . In this project , we are supposed to design, develop and deploy a comprehensive logistics solution .The project aims at helping the customers to manage their logistics information, load tracking system,search for nearby dealers and place their order.

### **System requirements**

We are going to use Rollbase technology which is Platform as a Service Software. It is a Cloud Platform which provides in-built tools like point & click,drag &drop in a web-browser for the rapid development of standards-based business applications.we may also be using JavaScript,HTML and CSS. Here is the brief description :-

Progress Rollbase: Application Development Platform (Which deploys the developed application into Amazon Elastic Compute Cloud)

Amazon RDS: Database

HTML/JavaScript: Languages

AJAX/REST/SOAP APIs

### **Users profile**

There will be 3 sets of users which will be :

1. Customers:

Needs familiarity on how to use Internet, how to register for a portal, how to login to the portal and track for services etc.They can create their account and book a consignment

sponsored by a dealer.They can also see their previous consignments and track the current ones.Basically, this project will provide them a gateway to order a desired consignment and get the best out of it.

## 2. Dealers:

They will be able to place their consignments along with the option of estimated cost .

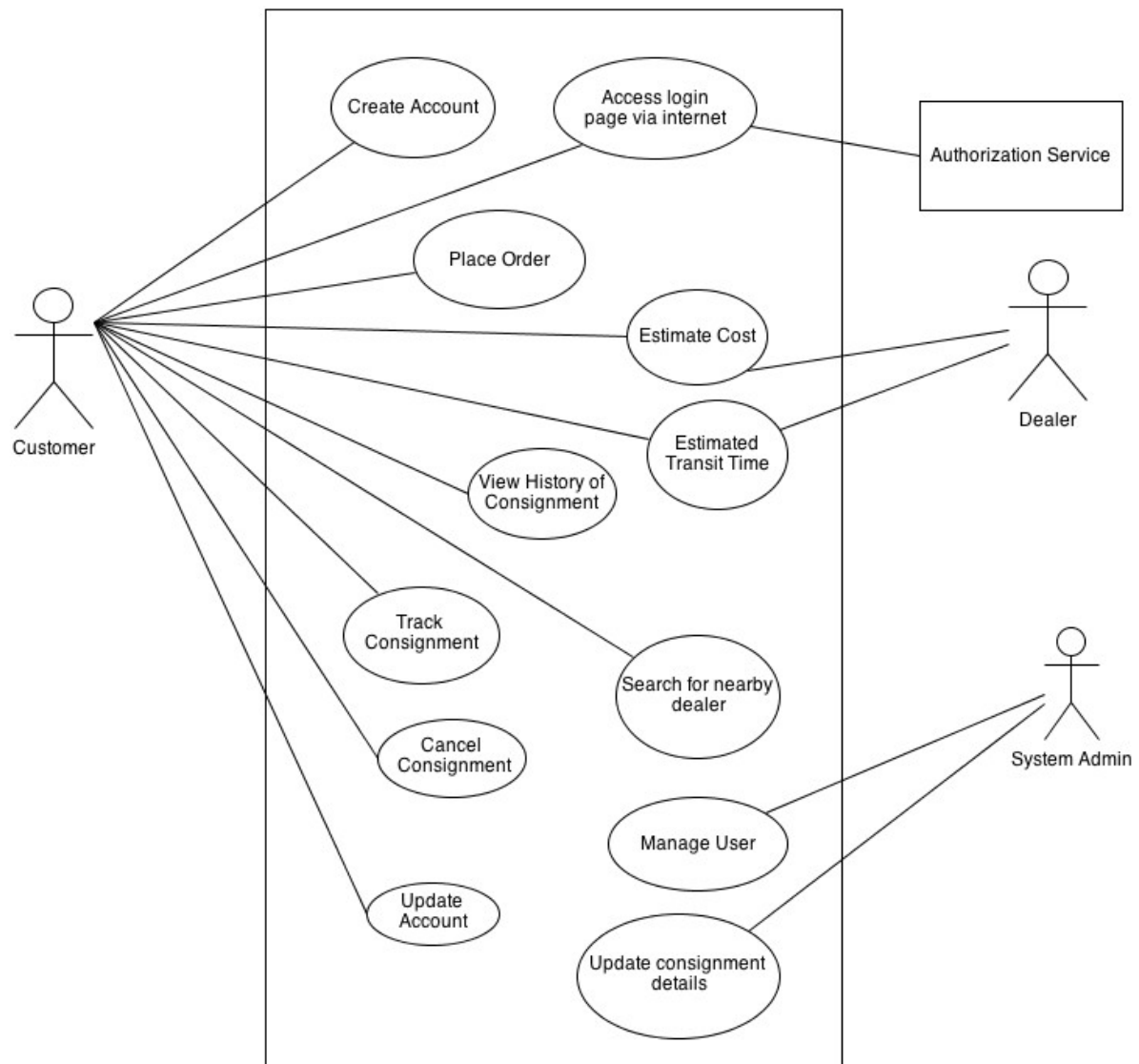
## 3. System Administrator:

Knowledge on comprehensive management of web application. e.g. Adding new location, updating price information. He should know how a logistics system works online.He can grant access to new people to create their account and order a consignment.He also has the ability to edit any account or logistic post.

## Feature requirements (described using use cases)

No.	User Case Name	Description	Release
1.	User Login	Verifying the user name and the corresponding password	1
2.	Place order	User is able to place order for the delivery of his consignment	1
3.	Estimate the cost	User is able to estimate the cost by entering the source and destination, weight and the service of consignment	2
4.	View Previous Consignment	User is able to check his log e.g. his previously ordered consignments	1
5.	Track Consignment	User is able to track the current location of his consignment	1
6.	Search for nearby Dealer	User is able to locate the nearby dealers and hence get the contact information of the dealers	2
7.	Cancel Booking	Customer should be able to cancel the booking	2
8.	Manage users	System Administrator can delete/edit user accounts	2
9.	Update Consignment Details	System Administrator can update the details of the consignment.	2
10.	Update User Account	Users can update their account	1
11.	Create User Account	New people can create their account.	1

## Use case diagram



## Use case description

<b>Use Case Number:</b>	UC-1
<b>Use Case Name:</b>	User Login
<b>Overview:</b>	User should be able to log into the site with correct password and user name.
<b>Actors:</b>	Customer and Dealer.
<b>Pre condition:</b>	System should have information regarding correct password and user name.
<b>Flow:</b>	<p>Main (success) Flow: Steps should be numbered.</p> <ol style="list-style-type: none"><li>1. User selects login option.</li><li>2. Fills details(name,password).</li><li>3. Clicks on submit.</li><li>4. If correct details are provided, he is redirected to his homepage.</li></ol>
	<p>Alternate Flows: Include the post condition for each alternate flow if different from the main flow.</p> <ol style="list-style-type: none"><li>1. If he enters wrong details, error message is displayed.</li></ol> <p>Post condition- He is not logged in.</p>
<b>Post Condition:</b>	User should be directed to its home page if he enters right combination else a error message should be given to the user.

<b>Use Case Number:</b>	UC-2
<b>Use Case Name:</b>	Place Order
<b>Overview:</b>	User should be able to place their order of consignment.
<b>Actors:</b>	Customer
<b>Pre condition:</b>	User should be logged in and there should be a dealer present with the desired source and destination location
<b>Flow:</b>	<p>Main (success) Flow: Steps should be numbered.</p> <ol style="list-style-type: none"> <li>1. User selects Place Order option.</li> <li>2. He selects category under which he wants to place his order.</li> <li>3. Fills in details (company's name, dealer, source, destination).</li> <li>4. Clicks on submit.</li> <li>5. If all details are correct, then his order is confirmed.</li> </ol>
	<p>Alternate Flows: Include the post condition for each alternate flow if different from the main flow.</p> <ol style="list-style-type: none"> <li>1. If errors are present- error message is displayed. Post condition- He is asked to fill the details again.</li> <li>2. If he cancels the order- he is redirected to his homepage. Post condition- The order is not placed.</li> </ol>
<b>Post Condition:</b>	If order has been placed message should be given to user regarding it else an error message should be given.

<b>Use Case Number:</b>	UC-3
<b>Use Case Name:</b>	Estimated cost
<b>Overview:</b>	User Should be able to see the estimated cost based on source,destination,weight, service etc.
<b>Actors:</b>	Customer
<b>Pre condition:</b>	The dealer should provide an estimation of the cost based on source , destination,weight, service etc.
<b>Flow:</b>	<p>Main (success) Flow: Steps should be numbered.</p> <ol style="list-style-type: none"> <li>1. User selects “Estimated Cost” option from homepage.</li> <li>2. He fills in the details of the consignment (name, service type, weight, source, destination) whose estimated cost he wants to see.</li> <li>3. Clicks on submit. If correct details are given, he is able to see the estimated cost of the concerned consignment.</li> </ol>
	<p>Alternate Flows: Include the post condition for each alternate flow if different from the main flow.</p> <ol style="list-style-type: none"> <li>1. If incomplete details are given – he is given an error message. Post Condition- He is asked to fill again.</li> <li>2. If he selects “Back” option -estimated cost option is canceled. Post Condition- He is redirected to his homepage.</li> </ol>
<b>Post Condition:</b>	Estimated cost of his consignment will be displayed.

<b>Use Case Number:</b>	UC-4
<b>Use Case Name:</b>	History of Consignment.
<b>Overview:</b>	User should be able to view his previous consignments.
<b>Actors:</b>	Customer
<b>Pre condition:</b>	System should have information regarding correct password and user name.
<b>Flow:</b>	<p>Main (success) Flow: Steps should be numbered.</p> <ol style="list-style-type: none"> <li>1. User selects "History" option from homepage.</li> <li>2. All the consignments with full details(name, dealer, source, destination) will be displayed.</li> </ol>
	<p>Alternate Flows: Include the post condition for each alternate flow if different from the main flow.</p> <ol style="list-style-type: none"> <li>1. If he is a new user(no previous consignments): Post Condition-He will see a message regarding no history.</li> </ol>
<b>Post Condition:</b>	All details regarding his previous consignment should be visible.



<b>Use Case Number:</b>	UC-5
<b>Use Case Name:</b>	Track Consignment
<b>Overview:</b>	Customer is able to track and get the location of the consignments booked by him
<b>Actors:</b>	Customer
<b>Pre condition:</b>	Customer is logged in and is able to see his booked consignments and have a track option along with them
<b>Flow:</b>	<p>Main (success) Flow: Steps should be numbered.</p> <ol style="list-style-type: none"> <li>1. Consignment details are visible on the homepage of the user.</li> <li>2. There is a “track” option besides every consignment.</li> <li>3. User selects “track” option.</li> <li>4. User sees the current location of his consignment.</li> </ol>
	Alternate Flows: Include the post condition for each alternate flow if different from the main flow.
<b>Post Condition:</b>	Once customer presses the locate button he gets the location of the selected consignment

<b>Use Case Number:</b>	UC-6
<b>Use Case Name:</b>	Search for nearby Dealers
<b>Overview:</b>	Customer is able to locate the nearby dealers and get the contact information.
<b>Actors:</b>	Customer
<b>Pre condition:</b>	Customer enters his location and has a search button
<b>Flow:</b>	<p>Main (success) Flow: Steps should be numbered.</p> <ol style="list-style-type: none"> <li>1. User selects "Search Dealers" option from homepage.</li> <li>2. Enters his current location.</li> <li>3. Gets details of the nearby dealers(name, company, contact).</li> </ol>
	<p>Alternate Flows: Include the post condition for each alternate flow if different from the main flow.</p> <ol style="list-style-type: none"> <li>1. If he cancels the option- he is redirected to his homepage.</li> </ol> <p>Post Condition- He would not be able to see his nearby dealers.</p>
<b>Post Condition:</b>	Customer get the address and the contact information of the nearby dealers.

<b>Use Case Number:</b>	UC-7
<b>Use Case Name:</b>	Cancel Booking
<b>Overview:</b>	Customer should be able to cancel booking before it has reached the destination
<b>Actors:</b>	Customer
<b>Pre condition:</b>	<ol style="list-style-type: none"> <li>1. User must be logged in.</li> <li>2. He must have some active consignment which is under the process of delivery.</li> </ol>
<b>Flow:</b>	<p>Main (success) Flow: Steps should be numbered.</p> <ol style="list-style-type: none"> <li>1. User selects "Cancel Booking" option from homepage.</li> <li>2. Gives the details of the consignment which he wants to cancel.</li> <li>3. If correct details are given-the consignment is canceled.</li> </ol>
	<p>Alternate Flows: Include the post condition for each alternate flow if different from the main flow.</p> <ol style="list-style-type: none"> <li>1. If he cancels the option-he is redirected to his homepage. Post Condition- The consignment is not canceled.</li> <li>2. If the consignment has already reached its destination- corresponding message will be displayed. Post Condition- He is unable to cancel his consignment.</li> </ol>
<b>Post Condition:</b>	<ol style="list-style-type: none"> <li>1. Its delivery should get canceled after deducting some percentage of the cost.</li> <li>2. The remaining money should be given back to the customer.</li> </ol>

<b>Use Case Number:</b>	UC-8
<b>Use Case Name:</b>	Manage Users
<b>Overview:</b>	System Administrator can delete/edit account of any user
<b>Actors:</b>	System Administrator
<b>Pre condition:</b>	<ol style="list-style-type: none"> <li>1. User whose account needs to be edited/deleted should be there.</li> <li>2. There should be some unacceptable entity in the user's account.</li> </ol>
<b>Flow:</b>	<p>Main (success) Flow: Steps should be numbered.</p> <ol style="list-style-type: none"> <li>1. Administrator selects the user account which he wants to edit or delete.</li> <li>2. He selects edit/delete option.</li> <li>3. If edit is selected- administrator changes the details/permissions of the user or block him from ordering a specific consignment.</li> <li>4. If delete is selected- user account is deleted.</li> </ol>
	<p>Alternate Flows: Include the post condition for each alternate flow if different from the main flow.</p> <ol style="list-style-type: none"> <li>1. If there is no such objectionable entity based on which the administrator can edit/delete the user's account, then error message will be displayed.</li> </ol> <p>Post Condition- User's account is not deleted/edited.</p>
<b>Post Condition:</b>	<ol style="list-style-type: none"> <li>1. User's account gets deleted.</li> <li>2. His all active consignments get canceled.</li> </ol>

<b>Use Case Number:</b>	UC-9
<b>Use Case Name:</b>	Update Consignment Details
<b>Overview:</b>	System Administrator can update the details of the consignment.
<b>Actors:</b>	System Administrator
<b>Pre condition</b>	1.The concerned consignment whose details are to be updated should be present.
<b>Flow:</b>	<p>Main (success) Flow: Steps should be numbered.</p> <ol style="list-style-type: none"> <li>1. Administrator selects update details option.</li> <li>2. He selects the concerned consignment.</li> <li>3. He updates the details of the consignment.</li> <li>4. If submit is selected- details get updated.</li> </ol>
	<p>Alternate Flows: Include the post condition for each alternate flow if different from the main flow.</p> <ol style="list-style-type: none"> <li>1. If he cancels the update option:- Post Condition- The consignment details are not updated.</li> </ol>
<b>Post Condition:</b>	1. The details of the consignment are updated.

<b>Use Case Number:</b>	UC-10
<b>Use Case Name:</b>	Update user account
<b>Overview:</b>	Users can update their account.
<b>Actors:</b>	Users
<b>Pre condition:</b>	1. User should be logged in. .
<b>Flow:</b>	<p>Main (success)Flow: should be numbered.</p> <ol style="list-style-type: none"> <li>1. User selects Update Account option.</li> <li>2. He fills in the updated details.</li> <li>3. He submits the values.</li> </ol>
	<p>Alternate Flows: Include the post condition for each alternate flow if different from the main flow.</p> <ol style="list-style-type: none"> <li>1. If he cancels the option he is redirected to his homepage.</li> </ol> <p>Post Condition- User's account is not updated.</p>
<b>Post Condition:</b>	1. User's account gets updated.

<b>Use Case Number:</b>	UC-11
<b>Use Case Name:</b>	Create User Account
<b>Overview:</b>	New people can create their account.
<b>Actors:</b>	User
<b>Pre condition:</b>	1. There should not be an existing user.
<b>Flow:</b>	<p>Main (success) Flow: Steps should be numbered.</p> <ol style="list-style-type: none"> <li>1. User selects create account option.</li> <li>2. He fills in the details.</li> <li>3. If he clicks submit, message regarding new account is displayed.</li> </ol>
	<p>Alternate Flows: Include the post condition for each alternate flow if different from the main flow.</p> <ol style="list-style-type: none"> <li>1. If the user name is already present, error is displayed. Post condition-User account is not created.</li> <li>2. If he selects cancel option: Post Condition-His account is not created.</li> </ol>
<b>Post Condition:</b>	1 User account is created..