

**Software Requirement
Specification
for
Trucking Company Management System**

CS 425 Software Engineering

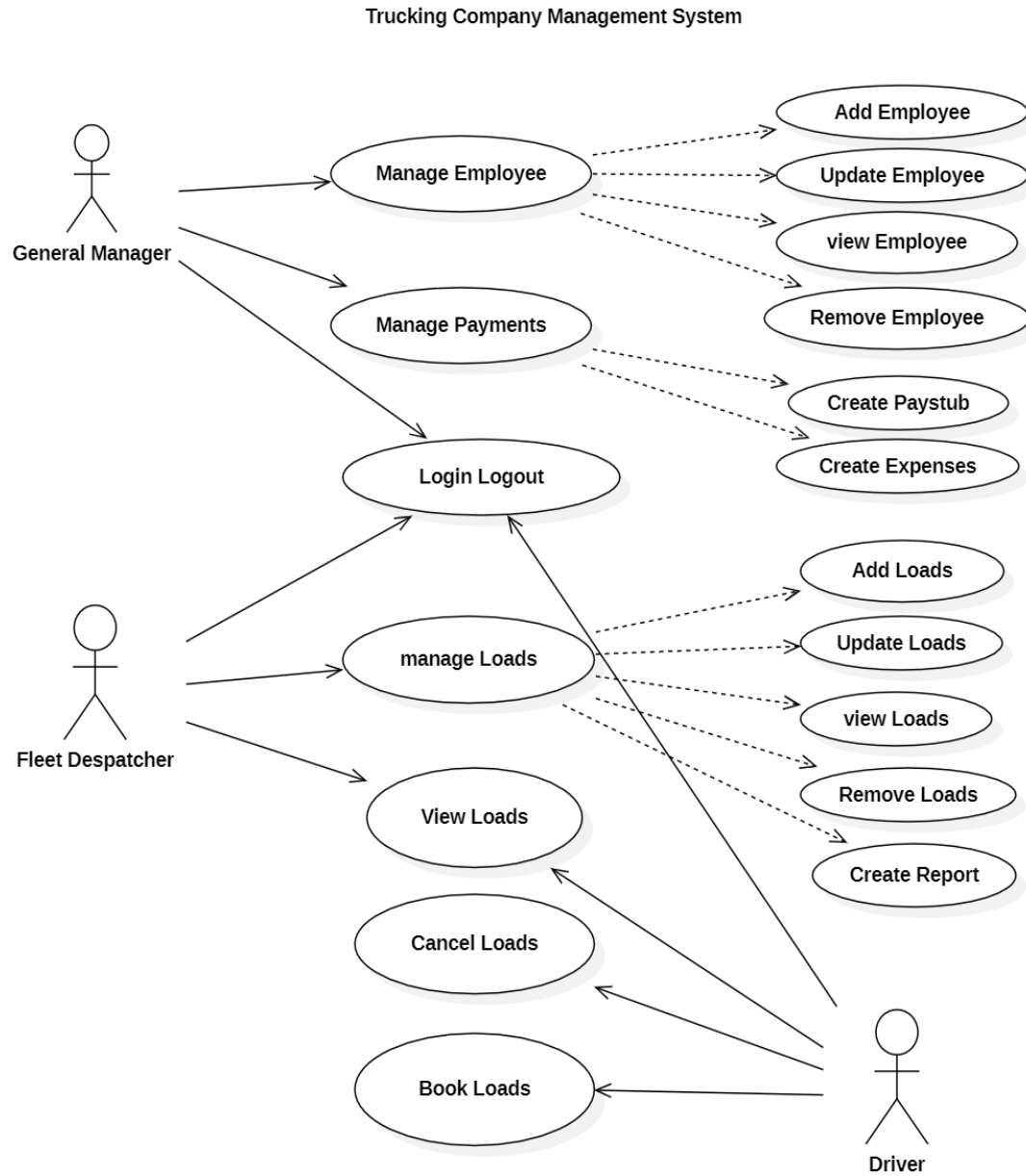
July 2020

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Use Case Model

➤ Use Case Diagram



➤ Use Case Description

Use Case Number: 1		
Name	Manage Employees	
Brief description	This use case allows the General Manager to create, Read/View and Update profile for employees	
Actors	General Manager	
Preconditions		
The General Manager must log in to the system		
Flows of Events		
1. Basic Flows		
1.1.0 Create Employee Profile		
Step	User Actions	System Actions
1	The General Manager calls the create employee profile command	The system displays the create employee profile form with the fields for First Name, Last Name, Id card number, email, password.
2	The General Manager fills out the form and requests the system to save the details	The system verifies that there's no other profile in the database with the same email address and saves the employee and returns the success message on success or a fail message in case of failure. In case another profile exists with the email address, the system returns the message indicating a duplicate entry exists.
Postconditions		
The employee profile is persisted in the system		
Business Rules		
No duplicate employee profiles. A unique profile is identified by email address.		
1.1.1 Read/view Employee Profile		
Step	User Actions	System Actions
1	The General Manager selects to view a list of employee profiles	The system returns a list of all employee profiles.
2	The General Manager selects to view a profile of one of the employees from the list of profiles	The system returns the profile of the employee as a string with the names (FirstName and LastName), ID card number, and email.
1.1.2 Update/Edit Employee Profile		

Step	User Actions	System Actions
1	The General Manager selects to view a list of employee profiles	The system returns a list of all employee profiles.
2	The General Manager selects the profile of the employee they want to update	The system displays an editable employee profile from pre-populated with the employee profile details
3	The General Manager updates the fields they want to update and requests system to save the new details	The system updates the record and returns the success message or a fail message on exception.
Postconditions		
The employee profile will be updated		
Business Rules		
The email field should be unwritable.		
1.1.3 Delete Employee Profile		
Step	User Actions	System Actions
1	The General Manager selects to view a list of employee profiles	The system returns a list of all employee profiles.
2	The General Manager selects to delete an employee profile from a list of employee profiles	The system displays a confirmation dialogue window
3	The General Manager selects OK on the confirmation dialog window to confirm deleting the profile	The system deletes the profile. The system returns message a success message on success or failure message.
Postconditions		
The employee profile will be deleted		
Business Rules		

Use Case Number: 2	
Name	Manage Payment
Brief description	This use case allows the Administrator to manage each payments and expenses
Actors	General Manager
Preconditions	
The General Manager must log in to the system	
Flows of Events	
1. Basic Flows	

1.1.0 Create a Paystub		
Step	User Actions	System Actions
1	The Administrator selects the 'Create Paystub command	The system displays the Paystub form with the required fields.
2	The Administrator fills out the form and requests the system to save every detail.	The system verifies all fields are filled as required and saves the paystub and returns the success message on success or a fail message in case of failure.
Postconditions		
The paystub details are persisted in the system		
Business Rules		
No duplicate paystub details. A unique paystub is identified by its File Number.		
1.1.1 Create Expenses Form		
Step	User Actions	System Actions
1	The General Manager select the Create Expenses list command.	The system displays the Expenses form with the required fields.
2	The Administrator selects the delete command associated with the car to be deleted	The system verifies all fields are filled as required and saves the expenses and returns the success message on success or a fail message in case of failure.
Postconditions		
The expenses details are persisted in the system		

Use Case Number: 3		
Name	Manage Loads	
Brief description	This use case allows the Fleet Despatcher to manage loads to book a car	
Actors	Fleet Despatcher	
Preconditions		
The Fleet Despatcher to log on to the system		
Flows of Events		
3. Basic Flows		
3.1.0 Add loads		
Step	User Actions	System Actions

1	The Fleet Despatcher calls the create employee profile command	The system displays the create load form with the fields for Load Id number, Destination From/to, Price
2	The Fleet Despatcher fills out the form and requests the system to save the details	The system verifies all fields are filled as required and saves the car and returns the success message on success or a fail message in case of failure.
Postconditions		
The load record is persisted in the system		
Business Rules		
No duplicate car details. A unique car is identified by its Load Id number.		
3.1.1 Read/view Loads		
Step	User Actions	System Actions
1	The Fleet Despatcher selects to view a list of loads	The system returns a list of all loads.
2	The Fleet Despatcher selects to view a load from the list	The system returns the summary of the load as a string with Load Id number, Destination From/to, Price
Postconditions		
3.1.2 Update/Edit Load Form		
Step	User Actions	System Actions
1	The Fleet Despatcher selects to view a list of loads	The system returns a list of all loads
2	The Fleet Despatcher selects to view a load from the list they want to update	The system displays an editable load form from pre-populated with the load details
3	The admin updates the fields they want to update and requests system to save the new details	The system updates the record and returns the success message or a fail message on exception.
Postconditions		
The load form will be updated		
3.1.3 Delete Loads		
Step	User Actions	System Actions
1	The Fleet Despatcher selects to view a list of loads	The system returns a list of all loads

2	The Fleet Despatcher selects to delete a load from a list of available loads	The system displays a confirmation dialogue window
3	The Fleet Despatcher selects OK on the confirmation dialog window to confirm deleting the load	The system deletes the load. The system returns message a success message on success or failure message.
Postconditions		
The selected load will be deleted		
Business Rules		
3.1.4 Create report		
Step	User Actions	System Actions
1	The Fleet Despatcher selects the 'Create Report command	The system displays the Report form with the required fields.
2	The Fleet Despatcher fills out the form and requests the system to save every detail.	The system verifies all fields are filled as required and saves the report and returns the success message on success or a fail message in case of failure.
Postconditions		
The Report details is persisted in the system		
Business Rules		

Use Case Number: 4		
Name	Book Loads	
Brief description	This use case allows the Driver to view and choose the available loads	
Actors	Driver	
Preconditions		
The Driver must log in to the system		
Flows of Events		
4. Basic Flows		
4.1.0 View Booking Detail		
Step	User Actions	System Actions
1	The Driver selects the ‘Search Load’ Command	The system displays list of available loads from database
2	The driver selects “Select” command	The system displays the load agreement form with the required fields.

3	The Driver fills out the form and selects "send" Command	The system verifies all fields are filled as required and saves the agreement form and returns the success message on success or a fail message in case of failure.
Postconditions		
The Driver receives a receipt of assigned load information		
Business Rules		
The list of Loads has to be order by Load Id number		

Use Case Number: 5		
Name	Cancel Loads	
Brief description	This use case allows the Driver to cancel assigned Load task booking	
Actors	Driver	
Preconditions		
The Driver must log in to the system		
Flows of Events		
5. Basic Flows		
5.1.0 Cancel Bookings		
Step	User Actions	System Actions
1	The Driver selects the ‘Search Loads’ Command	The system displays a search form for Loads with the field of Load Id number
2	The Employee fills out the search form for Loads and requests the system to search	The system verifies that there is a load record in the database with the same Load Id number and displays the booking information of that Load ID.
3	The Employee selects ‘Cancel Load’ command	The system deletes the Load information and returns the success message on success or a fail message in case of failure.
Postconditions		
A assigned load is canceled		

Use Case Number: 6	
Name	View Loads
Brief description	This use case allows the Fleet Despatcher and Driver to view the available loads

Actors	Fleet Despatcher and Driver	
Preconditions		
The Fleet Despatcher and Driver must log in to the system		
Flows of Events		
6. Basic Flows		
6.1.0 View Loads		
Step	User Actions	System Actions
1	The Fleet Despatcher and Driver selects to view a list of available loads	The system returns a list of all available loads on database
2	The Fleet Despatcher and Driver selects to view a load summary information from the list of loads	The system displays a load summary file
Postconditions		
The load list will be displayed on screen		

2. Glossary

Driver	People who Pick up goods and materials
Fleet Despatcher	A person who pre plan loads for drivers.
General manager	A person who manages Employees and Payments
Booking	Booking is a reservation detail of a loads
Loads	Heavy materials that has to be shipped and delivered