

Software Requirements Specification (SRS) Document

Team Number: 14

Team Members

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Note: This is a living document, hence its content is bound to change regularly catching up with the growing updates in the project.

Problem Statement

Hire Truck: This Project aims to create an interface for goods transportation services enhancing the lives of both the customers and the transportation services as well. The main goal is to ensure the maximal utilization of transportation vehicles, especially during their return journey.

Users Profile

The users of the project are:-

1). Customers: These are the ones who request transportation of goods. It is assumed that they are versed enough to use this application.

2). Freight Owners: These are the ones who take in the request for the transportation of goods. Socially, it is assumed that they have minimal experience with computers.

3). Port Owners (Primary Users): These are the primary users of this, as they aim to minimise their expenses during the transportation of goods. Minimization of cost is done as the vehicles are not going to go empty in their return trip, hence the expense is calculated one way. It is assumed that this group has someone in their team who is well-versed with the software system.

Project Modules

1. UI/UX Interface Creation:

This module of the project involves creating a user-friendly interface for the clients which involves certain set of features. This module specially deals with the front-end part of interface and the features primarily involved in it.

Note: The Entirety of this module involves creation of frontend only, during further modules, this frontend shall be connected to backend using MongoDB, Nodejs and Express js.

Sub-Modules

- a. Login: This feature allows the user to login to his account
- b. User Type: This feature allows the user to choose to be one of the two types, either the customer, or freight. Based on this, the interface changes for the users.
- c. User Type - Freight Owner: The landing page will provide a search functionality for specifying the origin and destination of the shipment.
It will also display the current schedule of the booked trucks.
- d. User Type - Customer: The landing page will offer a feature to locate return trucks.
By clicking on the option, the customer will be directed to another page where they can enter pickup and drop-off locations, loa type, wet or dry classification, quantity and pick up date. Upon clicking the search button, the available trucks will be displayed.

2. Research:

This module involves researching into various features to enhance our algorithm, as well as provide in more custom built features for the customers, thus evolving for peaceful transportation of goods

Sub-Modules

- a. Vehicle Selection: This part involves extensive research on the kinds of transportation of vehicles in order to ensure safe and sound transport of goods. For Example: A Tipper lorry would be more suitable for carrying coal, whilst a regular one is not suitable for carrying liquids such as petroleum. Hence the customer needs to be given a choice to choose among these based on the kind of goods they want to be transported
- b. Weight and Dimension bias: This part is another extension towards the previous one. Goods might have different dimensions and weights. Based on it's characteristics, one needs to design an algorithm that allocated the required vehicle per se, regular ones, or multi-axle vehicles.