Project Proposal

Industrial transport management system: An efficient transport renting service for business organization

Course: SE-505 Software Project Lab - II

Submitted by

Mahir Mahbub	*BSSE0807*	*2015-16*
Sefat-E-Mahdi	*BSSE0839*	*2015-16*

Document Version: 1.0

Submitted to

SPL II Coordinators

Institute of Information Technology

University of Dhaka

[24-01-2018]

Proposal Submission Letter

Supervisor's approval sign is required

Date: 24.01.2018

The coordinator, SPL-2
Institute of Information Technology, University of Dhaka

Subject: Application for approval of project proposal.

Dear Sir,
By referring to the above matter, I would like to present the Project Proposal document. The main purpose for this proposal is explained below.

I hope that you can go through this document. Please notice for any modification.

Sincerely, `

Supervisor

Dr. Mohammed Shafiul Alam Khan

Mahir Mahbub *BSSE0807* *Phn: 01517179498*	*Sefat-E-Mahdi* *BSSE0839* *Phn:01774384799*

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Introduction

A Transportation Management System is a software that is aimed at helping business and organizations to effectively manage its logistics supply chain, it helps organizing and tracking the movements of the vehicles, products and materials. A Transportation Management System also helps in managing transport scheduling, shipping and transporting units, transportation mode selection, payment and processing of loss and damage claims etc.

Objective

Some of the basic functions and advantages of a transportation management system are transport load planning and transport routing optimization, routing guide, execution management and carrier communication, vehicle tracking, business intelligence and reporting, claims management, returns management etc. The transport load planning and routing optimization helps the transporter to plan the loading and then find a suitable and optimized route as per their requirements. This helps to save a lot of money and time and as a result makes it easy for the transporter to manage.

Rationale

In existing system all work is done manually. In this system it is very difficult to find old records. Since all work is done manually, it takes time to give report to management regarding their query. To book an order user have to come transportation office. User can also not able to check his goods delivery status. All work is done on paper so it is error prone system. Sometime it is very difficult to manage all transport delivery. Although there exist some automated systems but these are not helpful enough and does not provide necessary supports to get tasks done easily without headache. So a fully functional automated system which covers all area of industrial transportation is required to computerize all these activity efficiently.

Project Description

Proposed system will automate works done manually in existing transport system. Using this system, one can book transports for carrying and supplying goods, know online check rates of transportation and routes to the destination. End-User can also check how long it takes to reach the delivery point. This system provides the basic components of a shared information system to support the collaboration, rates, routes and information exchanged to facilitate the booking, execution, Route optimization, comparing, tracking and settlement of any type of transportation movement. The routing guide is another feature of a TMS which helps the end user to get an idea about the inbound routing guides for better cost management. The transport optimizer and execution management help the shippers to find the right carriers along with shipping cost calculation. Overall the system will provide total transport management for business and industrial organization.

Deliverables of this project are-

- SRS documentation: Requirement and analysis of the software.
- Web application

Required technology to develop this application are-

- HTML
- CSS
- JavaScript
- jQuery
- Python
- Django Framework
- MySQL

Scope of the development

Transport Management System is to centralize and manage the transportation system for large scale industrial companies. This system will be developed for both web-based application. People can register through the online form. Auto generated suggestion for user will provided. An efficient admin panel and online registration for borrower and lender (General Customer) will be added as individual apps.

- The system will work only for web browser other than IE 8 or older.
- The template of auto generated PDFs will be fixed.

Stakeholders Description

Stakeholders of the systems are business owners, drivers, vehicle owners and individual who interested in the system.

References

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