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| Capstone Project Document |

**Carrier Trading Center**

Report #1 – Project Introduction

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**- Hanoi, 01/2017-**

# SIGNATURE PAGE

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# INTRODUCTION

## Purpose

This document is created as the introduction for project Carrier Trading Center – our Capstone Project at FPT University. In this document, we will descript the overview of some existing systems, the initial idea for our project, a brief description about our expected system and some potential risks, critical assumptions, constrains. Moreover, this document also shows opportunities what it offers for users.

## Acronyms and Definitions

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| **Acronym & Abbreviation** | **Definition** |
| CTC | Carrier Trading Center |
| FPTU | FPT University |
| Q&A | Question and Answer |

**Table 1-1:** Definitions and Acronyms

# ABSTRACT

In fact, there is a high rate of empty trucks on return; it leads to low economic efficiency. Therefore, we create this software to resolve the problem. Our software which supports driver participates in an auction to transport cargo. Someone who interested in carriage will be served with the cheapest price as possible and drivers will not return on the empty trucks. Our software is a transport trading floor on internet. The owner of goods can post their cargo, ceiling price,.…on the trading floor and the drivers or transportation company can joint in the bidding. This is beneficial for both sides. We hope our software not only improve the economic efficiency but also the social life.

# LITERATURE REVIEW

There are some applications or websites have worked about this subject. You can post an article to looking for transport service or searching someone who have demand on carriage. For example: <http://sanvanchuyen.vn/>

“Sanvanchuyen.vn” is a social networking website which connects the owner of goods and shipper.

* Advantages:
* Quickly post
* Finding partner easily
* Free
* Price pinning
* Auction
* Disadvantages:
* There is no reliable verified information
* It is difficult to auction
* **Sanvanchuyen.vn**

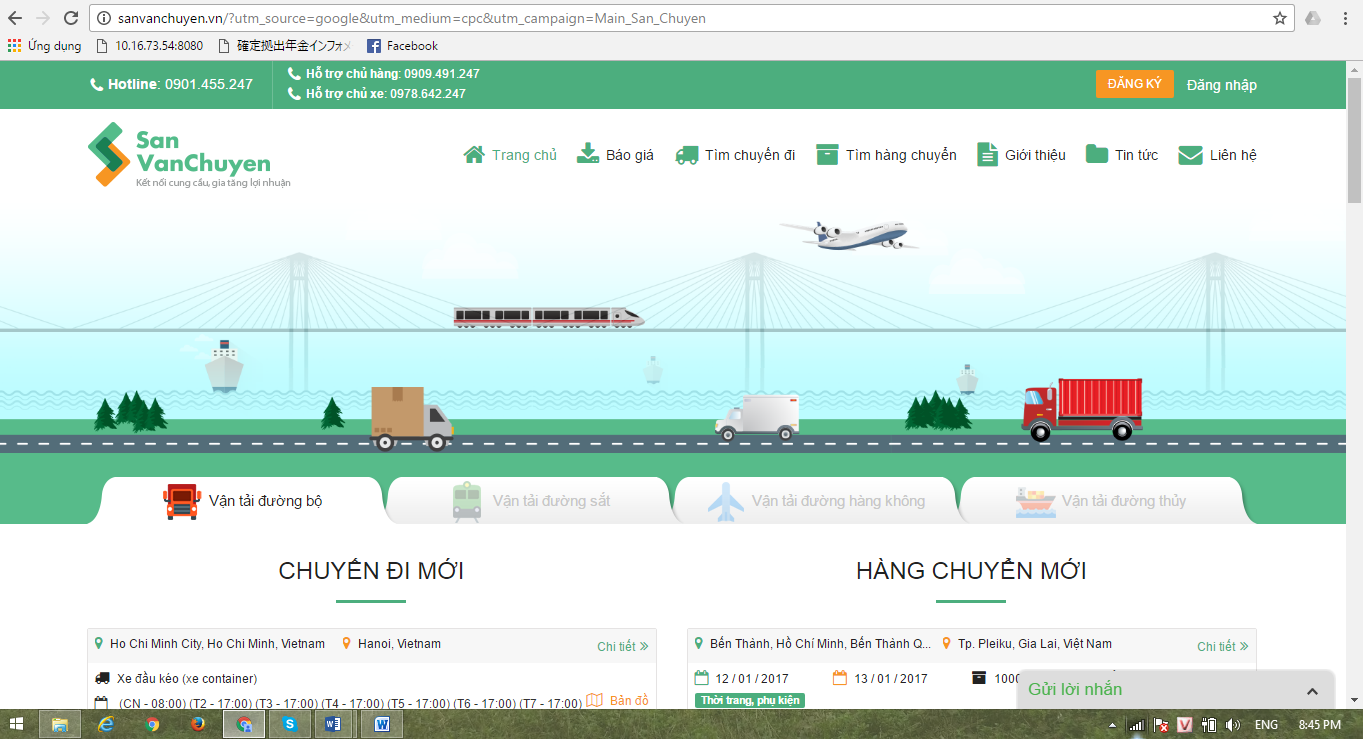
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Figure 1: Website sanvanchuyen

# PROPOSAL

## The idea

Today there are many who need freight but are not know how to transport as well as being subject to a relatively high fee for it. that is parallel to the transport vehicle after the first leg, the second leg of their ratios were very high without this makes productivity and profitability becomes lower. Our projects - Carrier Trading Center born to addressing these issues. Help people get higher economic profit.

## Objectives

This project is the Capstone Project in FPT University studying program.

First, this project is responsibility for all team members. So we must complete all requirements from teacher and FU. During the time doing project, we can learn how to develop a project, how to manage project, how to communicate better between team member, how to control time, how to perform teamwork effectively. Moreover, we also have experience in Java technology, website designing, software testing Therefore, we think this project is very necessary for us to improve skills, knowledge which we studied in FU. This project also makes our CV more beautiful after graduating from FU. This is also an opportunity for us to prove capacity with recruiters.

We want to help people around me, they want to improve the conditions of life as well as Vietnam makes no traffic overload. Especially our website displayed entirely in Vietnamese. Vietnamese can use this website easier

## Brief description about system

This software is a major platform for crowdfunding with friendly and attractive interface, users can easily find out interesting project to back or create a new project with their idea. User also can send opinion to admin if they need help.

CTC uses familiar technologies as: JFS, spring framework, Hibernate… And we are planning to develop a mobile version for easily connecting.

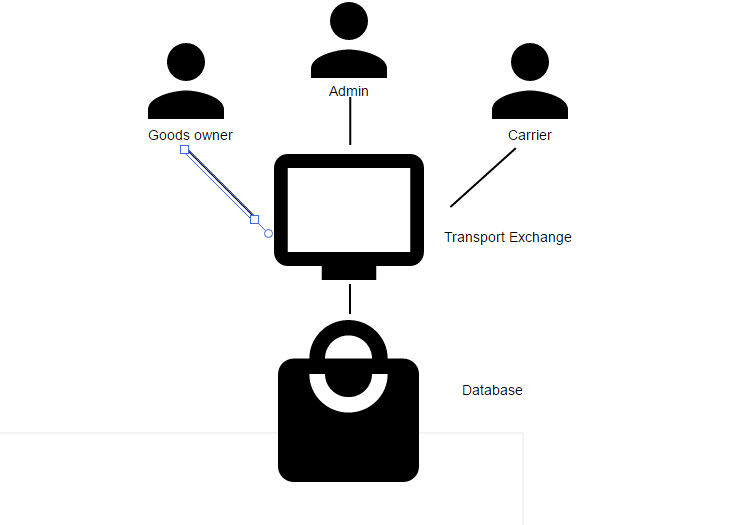


Figure 2: Brief descriptions diagram of CTC system

## System features

About the features of CTC, we focus to provide for users main features as searching, filter project, create new project, back project, etc. Admin can manage members, manage projects, manage database, manage contribute database and manage Q&A.

In here, we focus on features which can help users can understand the best way what user want to have with features of CTC. There are the detailed features of CTC:

### Client features

* **Register**: goods owner and carrier can register an account and login to use some features of CTC.
* **Login/Logout:** goods owner and carrier login/logout an account to use or exit system CTC.
* **Create a new auction**: goods owner can create a new auction.
* **Auction** : carrier can auction some goods to transport.
* **Search**: goods owner and carrier can search auction with types of goods, where to go, destination, receiving time, arrival time, transaction status. System will display all of project relate to keywords.
* **Cancel** : carrier and goods owner can cancel auction.
* **Profile**:
  + Change password: User can change password to keep security.
  + Update profile: User can change or update information.
* **Send report**: Carrier and goods owner can send report to admin.

### Admin features

* **Login/Logout**: Admin login/logout an account to use or exit system CTC.
* **Manage goods owner and carrier:**
  + **Search goods owner and carrier**: Admin can search goods owner and carrier with account name, name of goods owner and carrier, phone number, email address. System will display all of project relate to keywords.
  + **Inactive/active goods owner and carrier**: admin can set goods owner and carrier account to inactive or active.
  + **Delete goods owner and carrier** : admin can delete a goods owner and carrier.
* **Manage exchange**:
  + **Search auction**: Admin can search auction with types of goods, where to go, destination, receiving time, arrival time, transaction status. System will display all of project relate to keywords.
* **Send report:** Admin can send report to goods owner and carrier.

# BENEFIT FROM PROJECT

## For our group

After developing and implementing this project, our group will get some benefits:

* Have more experiences of software project management how to manage plan, time, member and risk.
* Have more knowledge and skill about JSF, spring framework, Hibernate.
* Know how to communicate with team members and how to teamwork more effective.

## For Community

Just need to have a device that connect to the internet and any web browser and personal information user can:

• Easy create a new transaction

• Easy join to Carrier Trading Center

• Easy search for interesting transaction information

• Easy to auction new transaction

# CRITICAL ASSUMPTION AND CONSTRAINTS

* Critical assumption:
  + Training: all team members have a good base knowledge about java. Although new technologies have not yet mastered but inquisitive spirit and ability to work well. All team members can study technology very quickly to complete projects.
  + Human resources: Assume that all members in team have a good healthy to do their tasks.
* Constraints:
  + Time and deadline: We must complete task on time. We work on 14 weeks, each member works 5 hours/day and 5 days/week. We do not have more time for us to complete developing and deliver application to teachers. Besides, we have to submit report documents before deadline to teacher can review.
  + Quality: The products must be run well when users perform main functions in Google Chrome 40 and Firefox 30 or higher.
  + Process: We have to follow the software processing of FPT Software
  + Human resources: There are 6 member in our team, each member have to study 3 subjects at school.

# POTENTIAL RISKS

After studying about this project, we find out some problem that we may be encountered:

* Under-estimate scope and time or miss deadline because lack of experience in group working, managing and controlling work.
* Loss data, source code before uploading data to server because of careless.
* Equipment got broken because of careless or accident.
* Human resources: Team member cannot complete their works because of health reasons, key member leave team or un-cooperating on team.
* Change requirements: Requirement changed when some functions cannot be completed or some technologies is not suitable.
* Some issues related to legislation

# REFERENCES

* **Sanvanchuyen: “San Van Chuyen”. Updated 19/02/2017.** <http://sanvanchuyen.vn/>