**MINISTRY OF EDUCATION**

**AND TRAINING**

**FPT UNIVERSITY**

Capstone Project Document

Distribution Management System in pharmaceutical

Report #1 – Introduction

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| Distribution Management System in pharmaceutical | |
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- Ha Noi, 09/2015 –

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## Introduction

### Purpose

This part is the introduction for Distribution Management System in phamarceutical (DMS) Project – our Capstone Project in FPT University. It is included the overview of existing system, the initial idea of this project.

The propose system will eliminate all the existing system limitations with its new features:

* Drugstores can easily make orders on website with registed account or view drug brand information. That helps Drugstore no longer solely depended on salesmen.
* Staffs manage Drugstore, Drugstore’s order, Salesman, Deliverymen and drug brands. All management functions are in one system.
* Salesmans are able to create order for drugstore in their areas.
* Manager can view all report about Salesmans.
* Administrator manage all user belong to system.
* System create shortest path between Drugstore for Deliveryman.

The new system will help the supplier save money, protect ustomer and reduce unnessary work for Staff.

### Acronyms and definitions

|  |  |  |
| --- | --- | --- |
| **Acronym & Abbreviation** | **Definition** | **Note** |
| DMS | Distribution Management System in phamarceutical |  |

**Table 1-1 :Acronyms and definitions**

## Abstract

The existing pharmaceutical supplier website only provides drug brands information. If drugstore want to order, they have to contact with Distributor….

The managements of Drugstore’s orders, Salesmen and Deliverymen are done separately, so the effort for an order to reach the drugstore is multiple. Since, Salesmen have to inform the Staff, and Staff will use the program to create an order then prepare that order’s products. After the preparation is finished, the staff will have to calculate by themselves which orders go together for a more efficient route. This calculation can be incorrect and sometimes the Staff just skips it when it seems too difficult which causes the supplier to lose money.

## Literature review

Indico International Distribution (<http://www.indico.vn>) .

* + - **Advantages:**
      * User interface clearly and easy to use.
      * Quick response for user’s action.
      * There are more Drug’s information.
      * There are more different kind of Drugs.
      * Feedback function.
* **Disadvantages:**
  + - * There are no price with each product.
      * System does not support register new account.
      * Cannot search Drug with Textbox.
      * Paging limit minimum 75 elements, hard to view and scroll.

## Proposal

### Initial idea of the DMS

The initial idea is to make the management of a pharmaceutical supplier’s distribution system more efficient and easy. By providing an online system that has these features:

* Drugstores can easily make orders on website with a registered account or view drug brand information.
* Staffs can manage drugstores, drugstore’s orders, salesmen, deliverymen and drug brands.
* Salesmen are able to create orders for drugstores in their areas.
* The system can automatically arrange drugstore’s orders for deliverymen to create the shortest path between drugstores and it can also automatically create and assign drugstore group for salesmen based on their addresses.
* The administrator can manage staffs, salesmen, deliverymen, drugstore’s accounts.
* The system also manages drugstore payments and debts.

### Objectives

This project is the Capstone Project for all team members. Firstly, we do this project to fulfill the requirements from FPT University studying program. During the time do this, we can learn how to develop a project, how to communicate with other team members, how to control time, how to do teamwork effectively. Therefore, after finishing this project, we can practice what we have learnt in University and learn so many new things. It’s very necessary for our future work after graduating from FPT University.

Secondly, we want to create a website for Distributor that help Drug store and Distributor can work more effective, faster, easier and simpler.

### System features

The expected system will eliminate all the existing system limitations with its new features:

**Manage components below:**

* *Drugstores* can easily make orders on website with a registered account or view drug brand information. This helps the drugstores no longer solely depended on salesmen.
* *Staff* can manage Drugstore, Drugstore’s order, salesman, deliveryman and drug brand. All managements are done on one system.
* *Administrator* can manage staffs, salesman, deliveryman, drugstore’s accounts.
* *Manager* can view all report from salesman.
* *System* can automatically create the shortest path between drugstores. System can manages drugstore payments and debts.
* *Salesman* are able to create orders for drugstores in their area. Reduce work for staff.

## Benefit from project

If this application will be developed and implemented successfully, our group and Distributor will get some benefits from it.

### For our group

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

* We have more experiences of managing a software project: how to manage plan, time, and risk. These experiences help us a lot in our future work.
* Know how to communicate with other team members and how to do teamwork efficiently
* If this application is developed, we will get a good mark in Capstone Project. It makes our grade better.

### For Distrisbutor and Drugstore

After developing and sending to Distributor, Staff and Drugstore will work in only one website.

* Drugstore users can order Drug easier, faster. They can find out more drug information. They can view all history about order and payment.
* Staff can work efficient and easy to manage drug, salesman, deliveryman
* Deliveryman can get shortest path that help save money, time and effort.
* Manager easier with auto statistical and report in every year.
* Salesman can view order history order and payment of each Drugstore and have new strategy for them.

## Critical assumption and constraints

There are some critical assumptions that we realize after analyzing this project. The first assumption is about team members. We assume that all the team members can work with MVC and C#. We do not know anything about it before this project, but we have to study hard for not missing any deadline of project plan. Besides, we also assume all our members do not have any health problems, so they are not absent and can do their works.

There are also some constraints of our project. Firstly, about the time and deadline, we have to finish project on time. It has no extra time for us to complete developing and deliver application to teachers. Besides, the reports need to be submitted before the deadline. Secondly, about the quality, the application must be well enough for users to do main function. Finally, about the technique, our knowledge in C# and MVC is not in the high level. Therefore, with all the expected features that we gave before, we do not know if we can solve all of those or not. However, we will try our best to make our project successfully.

## Potential risks

After analyzing this project, we may be facing some risks:

* + - With the short duration - about 3 months – we will not have enough time to do all things and miss the delivery deadline.
    - We do not have any experiences in software project management such as time management, risk management etc. So maybe we will miss the deadline or have some unknown risks.
    - It is the first time we manage big project like this, we do not have much experiences in communicating between the team. So maybe in the future, we will have conflict and argument and we will not finish all the works in time.
    - Maybe we will lose source code or device during the developed time.