** MINISTRY OF EDUCATION AND TRAINING**

**FPT UNIVERSITY**

Capstone Project Document

Smart Buy

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| **Capstone Project code** | SmartB |

-Ho Chi Minh City, 01/2014-

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# Report No. 1 Introduction

## Project Information

* Project name: **Smart Buy**
* Project Code: **SmartB**
* Product Type: **Website, Phone Application**
* Start Date: **January 7th, 2014**
* End Date:

## Introduction

People go shopping every day. They buy clothes, books, stationeries, etc… and most importantly - food. They often buy them at their familiar markets, or the nearest one. Today, together with the growing use of smart phones, we should find a smarter way to do our daily jobs, such as shopping. Our system will, therefore, help users to find the price of a product in the market, keep track of the price fluctuation, suggest the best way to buy a list of products, etc…

## Current Buying Habits

Below are some buying habits:

* At familiar markets: Here, people only go to some fixed markets every day. They are familiar with them, so they do not want to try somewhere else.
* At the nearest markets: People of this type like buying things at their nearest place. Travel distance is a matter to them, not the price.
* At random markets: The last one category - people with this habit often go to any markets to buy things they need. Neither travel distance nor price is the matter to them.

## Problem Definition

Below are the advantages and disadvantages of current buying habits:

* At familiar markets

+ Advantages: Familiar with many things there, price maybe cheaper, the quality can be trusted.

+ Disadvantage: Can’t explore new things at new markets.

* At the nearest markets

+ Advantages: Save time and effort.

+ Disadvantages: Price can be high, quality can’t be trusted.

* At random markets

+ Advantages: Have the latest info of many markets.

+ Disadvantages: Price can be high, quality can’t be trusted.

## Proposed Solution

The system is intended for use by those with a smart phone or a laptop/computer with Internet connection. The system will have the following functions:

### **Feature functions**

* Admins can manage the system, manage accounts, and configure system.
* System can parse, suggest, and recommend product price daily or on requests.
* Staff can create and update new users, manually input product price, and compile statistics.
* Users can request to view the price, ask for the best buying way, and update product price.

### Advantages and disadvantages

The advantages and disadvantages of the proposed solution:

* Advantages: Provide latest price to users, help users buy things at the lowest price and within shortest travel distance.
* Disadvantages: Users must have a smart phone or a laptop/computer to use this system. Internet connection is required to obtain the latest information.

## Functional Requirements

Function requirements of the system are listed as below:

### Data Management

* System will parse data from many websites automatically at specific times.
* Staff can force the system to parse data any time.
* Staff can input data manually or by importing excel files.
* Staff can compile statistics.
* Users can update product price daily.

### Suggestion

* System can suggest the best way to buy a product or a list of products to the user.

### User Management

* Staff can add/edit/activate/deactivate users.

### Market Management

* The admin can add/edit/activate/deactivate markets.

## Role and Responsibility

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| --- | --- | --- | --- | --- |
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Table 1: Roles and Responsibilities