** MINISTRY OF EDUCATION AND TRAINING**

**FPT UNIVERSITY**

Capstone Project Document

**Laptop Reviews**

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| **Capstone Project code** | LRA |

-Ho Chi Minh City, ***05/2015***-

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# Report No. 1 Introduction

## Project Information

* Project name: **Laptop Review**
* Project Code: **LRA**
* Product Type: **Website, Phone Application**
* Start Date: **May 12th, 2015**
* End Date:

## Introduction

Finding suitable laptops is not an easy thing to do. To solve that problem, we propose a solution which can help people to archive it. We will gather and classify the reviews from trusted websites so that customers can have the best advices and easily make decisions. How can we know whether the reviews are positive or negative? Our system will, therefore, help classify the reviews automatically, show them to our customers in an appropriate way.

## Current Situation:

Nowadays, there are many kinds of laptops that many people suffer difficulties in finding the best laptops for them. People often choose laptop based on what they see at the electronic supermarkets or reading reviews on some trusted pages, etc.

Below are some current habits:

* At electronic supermarkets: Here, people go to some well-known electronic supermarkets to collect information from the sellers or on manufacturers’ brochures and make decisions based on that information.
* Online: they can search on Google or another search engines for some well-known and trustworthy technology forums or websites, then they collect information of the laptops they want by reading the reviews. After that, they can make their final choice.

## Problem Definition

Below are the advantages and disadvantages of current habits:

* At electronic supermarkets:
* Advantages: Here, customers can see the laptops physically, gather information from sellers, and the quality can be trusted that can help them make decisions.
* Disadvantages: People tend to go to several electronic supermarkets to get as much information as they can. This will take time. Moreover, it’s hard for them to remember the information each supermarket provide exactly.
* Online:
* Advantages: Customers will have a wide range of reviews which are extremely helpful. Whether positive or negative, these reviews will guide customers in making a better purchasing decision.
* Disadvantages: It will take lots of time to search for trusted websites and read all the reviews, and some reviews may be useless or not relevant that can make customers confused.

According to the description above, we can realize that reviews are one of the most important factors for choosing laptop. Are the reviews relevant or not? Useful or nonsense? From the trusted website or not? Our system will help you with those problems.

## Proposed Solution

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

### **Feature functions**

On our system, general users can search for laptops’ specs and reviews. If the laptops that users want are not available on system, they can ask for notification through emails when the information is updated. To handle users’ requirements, the LRA can parse laptops’ specs and reviews daily or on requests. The system also allows staff to configure it, manually update dictionary which is used to classify the reviews, import new words from excel file and have the ability to automatically find the synonyms and antonyms of words/phrases in the dictionary or synchronize laptops’ name. Last but not lease, this system should help admins to manage all the accounts.

### Advantages and disadvantages

The advantages and disadvantages of the proposed solution:

* Advantages: Provide reviews with classification that help customers to make decision easier.
* Disadvantages:
  + If the source websites change their structures, the parse process may be failed.
  + There might be mistakes in classifying the reviews.

## Functional Requirements

Function requirements of the system are listed as below:

### Parser

* Parse the reviews automatically and manually.

### Train Machine

* Train machine: Merge and Split duplicated items

### Manage Account

* Manage users.

### Dictionary Management

* Manually input
* Input excel
* Automatically input

### Users’ functions

* Search laptops.
* Edit profile.

### Analyze comment

* Analyze comment

## Role and Responsibility

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