** MINISTRY OF EDUCATION AND TRAINING**

**FPT UNIVERSITY**

Capstone Project Document

**Laptop Reviews**

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| **Group 1** | |
| **Group members** | Vo Thi Minh Chau – Team Leader – SE60931  Nguyen Van Hon – Team Member - 60390  Dinh Huu Toan – Team Member - SE60871  Nguyen Manh Khuong – Team Member - 60455 |
| **Supervisor** | Mr. Kieu Trong Khanh |
| **Ext. Supervisor** | N/A |
| **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 habits:

* At electronic supermarkets: Here, people will get advices only from sellers or they just can read the specs of laptops and choose.
* Online: they can search on Google or another search engines, then read the reviews on some trusted websites and make decision.

## Problem Definition

Below are the advantages and disadvantages of current habits:

* At electronic supermarkets:
* Advantages: Here, customers can see the laptops physically, and the quality can be trusted.
* Disadvantages: Sometimes, advices from sellers are not trustworthy. Moreover, performances promised by manufacturers may be overstated.
* 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 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:

### Data Management

* Parse the reviews automatically and manually.

### User Management

* Manage users.

### Dictionary Management

* Update dictionary manually and automatically.

### Users’ functions

* Search laptops.
* Provide feedbacks.

## Role and Responsibility

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| --- | --- | --- | --- | --- |
| No | Full Name | Role | Position | Contact |
| 1 | Kieu Trong Khanh | Project Manager | Instructor | khanhkt@fpt.edu.vn |
| 2 | Vo Thi Minh Chau | Developer | Leader | chauvtmse60931@fpt.edu.vn |
| 3 | Nguyen Van Hon | Developer | Member | honnv60390@fpt.edu.vn |
| 4 | Dinh Huu Toan | Developer | Member | toandhse60871@fpt.edu.vn |
| 5 | Nguyen Manh Khuong | Developer | Member | khuongnm60455@fpt.edu.vn |

Table 1: Roles and Responsibilities