** MINISTRY OF EDUCATION ANDTRAINING**

**FPT UNIVERSITY**

Capstone Project Document

**Computer Product Suggestion**

|  |  |
| --- | --- |
| **Group 13** | |
| **Group members** | Pham Hong Sang – Team Leader – SE60601  Huynh Thanh Viet – Team Member - SE60666  Tran Tan Len – Team Member - SE60623  Ha Chi Danh – Team Member - 60431 |
| **Supervisor** | Mr. Kieu Trong Khanh |
| **Ext. Supervisor** | N/A |
| **Capstone Project code** | CPS |

-Ho Chi Minh City, 05/2014-

*This page is intentionally left blank*

***ACKNOWLEDGEMENTS***

We wish to thank various people for their contribution to this project: Our teachers for their advices and participant in the final review, our friend for the valuable technical support.

Special thanks should be given to Mr.Kiều Trọng Khánh, our research supervisor for his professional guidance and the useful, constructive recommendations throughout the course of this project.

# Table of Contents

[Table of Contents 4](#_Toc387831711)

[List of Tables 4](#_Toc387831712)

[Report No. 1 Introduction 5](#_Toc387831713)

[1. Project Information 5](#_Toc387831714)

[2. Introduction 5](#_Toc387831715)

[3. Current Comparison websites in Vietnam 5](#_Toc387831716)

[4. Problem Definition 5](#_Toc387831717)

[5. Proposed Solution 5](#_Toc387831718)

[5.1 Feature functions 6](#_Toc387831719)

[5.2 Advantages and disadvantages 6](#_Toc387831720)

[6. Functional Requirements 6](#_Toc387831721)

[6.1 Data Management 6](#_Toc387831722)

[6.2 Suggestion 6](#_Toc387831723)

[6.3 System Management 6](#_Toc387831724)

[6.4 User Management 6](#_Toc387831725)

[7. Role and Responsibility 6](#_Toc387831726)

# 

# 

# List of Tables

[Table 1: Roles and Responsibilities 7](#_Toc377162038)

# Report No. 1 Introduction

## Project Information

* Project name: **Computer Product Suggestion**
* Project Code: **CPS**
* Product Type: **Website**
* Start Date: **May 13th, 2014**
* End Date:

## Introduction

Nowadays Online shopping is become the most popular trends in the world.

E-commerce websites are become more and more popular; however, they just only show the details of products and don’t have any effective search and compare function that can recommend for customer about their choices. But, how can we know a computer is better than the other ones? Or which one is fixed their budget? Our system will do that thing, it helps users find computer online, compares them and system will suggest products what is suitable for users, etc…

Current Comparison websites in Vietnam

Below are some comparison sites:

* Normal E-commerce websites (thegioididong.com, vienthonga.com, dienmay.com, etc…): They have some functions that let people search and see details of each product. But all that products are had in their website and we can’t compare them with another website. They show all text details, it is too difficult for users to choose what they want and it spends too much time.
* Especial compare websites (compare.vn, websosanh.vn, sosanh.vn, etc…): They provide functions that let users add 2 or more in order to make them see details of products easily. They collect data from another website, so that make users see more details of product then a normal e-commerce websites. But they still have no any especial search and compare functions.

## Problem Definition

Below are the advantages and disadvantages of current comparison website in Vietnam:

- Advantages:

+ All products in 1 website (normal e-commerce websites), it makes users easy to search or get information about the products.

+ It save your time and cost of travelling to see products in real or other website.

+ You don’t need to leave your home and go to store for consultant or specialist about advises.

- Disadvantages:

+ It doesn’t show you that product will suitable for you, it has just showed details of products.

+ It takes a lot of your time to spend to compare or research details of product that you care about.

+ You will be confused about the price because it collects data from another website. So that you don’t know what price is suitable for you (especial compare websites)?

+ Finally, It is so difficult for you to make decide what products that you would buy because it is all text and don’t have any special compare functions.

According to the description above, we can realize that user couldn’t know what product is better than the other ones. Is that product is under your budget? Our system will help you with those problems.

## Proposed Solution

* The system is intended for users to make decisions about set of computer products that they want to buy. The system must to manage products, users, etc… In detail, the system will enable following function:

### **Feature functions**

* Admins can manage the system, manage accounts, and configure system.
* System can evaluate the inputted product to give suggestion or proposal, beside that it will parse the web to get the useful information.
* Staff will define or configure the weight of criteria and collect data from web to mine.
* Users can request to search and get the suggestion with set of selected products and recommend and rating for each product.
* Trainings module will help system recognize products are already exist in database or not. If not, system will be trained about the product.

### Advantages and disadvantages

The advantages and disadvantages of the proposed solution:

- Advantages: Provide full of details suggest about specified product that you want to know and see what product is better than the other ones. It saves your time, because it takes a few minutes instead of several hours to compare the details (all text) and still don’t know which one is under your budget and better. You will never miss out a special, coupon or rebate. Finally, you can get real life reviews, recommend and rating from the other users.

- Disadvantages: Users must have laptop/computer for using system and Internet Connection is required.

## 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.

Staff can define or configure weight criteria manually or train to the machine.

### Suggestion

* System can suggest the best solution to buy a product or a list of products to the user which is under their budget.

### System Management

* System evaluates the inputted product to give suggestion and proposal.
* System can parse the website to get useful information.

### User Management

* Staff can manage users.

### Training machine

* System can auto check product is existed or not, after that system will notify for staff if it wouldn’t exist and staff will confirm to approve it.

## Role and Responsibility

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Full Name | Role | Position | Contact |
| 1 | Kieu Trong Khanh | Project Manager | Instructor | khanhkt@fpt.edu.vn |
| 2 | Pham Hong Sang | Developer | Leader | iv250509@gmail.com |
| 3 | Huynh Thanh Viet | Developer | Member | viethtse60666@fpt.edu.vn |
| 4 | Tran Tan Len | Developer | Member | lenttse60623@fpt.edu.vn |
| 5 | Ha Chi Danh | Developer | Member | danhhc60431@fpt.edu.vn |

Table 1: Roles and Responsibilities