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|  | **MINISTRY OF EDUCATION AND TRAINING** |

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| **FPT UNIVERSITY** | | |
| CAPSTONE PROJECT DOCUMENT | | |
| **SITE BUILDER FOR PRODUCT CATALOGUE** | | |
| **SE07.B – GROUP 7** | |
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| **Supervisor** | Nguyễn Huy Hùng |
| **Capstone Project code** |  |

- Ho Chi Minh City, January/2014 -

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**Definition, Acronyms, and Abbreviations**

|  |  |
| --- | --- |
| **Name** | **Definition** |
| SBPC | Site Builder for Product Catalogue |
|  |  |

# Report No.1 Introduction

## Project Information

* Project Name: Site Builder for Product Catalogue
* Project Code: SBPC
* Product Type: Web application
* Start Date: January 6, 2015
* End Date: April 25, 2015

## Introduction

Nowadays, the development of internet and information technology led to the dramatic increase in online users. Among of them, a lot of users search for necessary products, suitable prices, brands and price comparison as well. Hence, more and more companies want to create a website for showing their product catalogue as an online marketing method.

Besides, we all recognized that creating a website for non IT Commercial Corporation is time consuming and expensive.

Currently, in Vietnam, there are some websites that provide site builder services for creating a commercial website. However, they are not easy to use and do not concentrate on any fields. Therefore, it is hard for corporations to use their services especially for creating products catalogue website.

From above mentioned reasons, this project is going to build a site builder for products catalogue.

## Current Situation

There are many websitesservices support for building site in Viet Nam, some of popular sites are websieutoc.vn, wevina.vn, and bizweb.vn. Those sites help user build various types of sites such as online ecommerce, medical, fashion, services and many other fields.

To begin using those sites services, user must register to system, then, user can move to site builder page. The system suggests user for default site templates or blank templates. At site builder page, a tool box helps user drag and drop content into their site. User can also customize site layout, background, header and footer.

Some of features require paying or upgrading account example mapping site domain. After completing building site, user can save their site and publish it if they want. The system supports for publishing with default domain, if choose another, user must pay.

## Problem Definition

Although many function of above mentioned websites, they still have weaknesses. They do not concentrate on any fields especially products catalogue sites. It is not easy to use their service for new user because of confuse interface and difficult manipulation on builder page. Moreover, the system does not support products detail management and website statistics.

## Proposed Solution

### 5.1 Feature functions

This site builder mainly concentrates on creating products catalogue sites. It is not only offers to create site base on available templates but also offers to customize site base on default site template/theme. In addition, the site builder also supports for mapping user’s site domain. If user does not have any domains, the site builder will support for a default domain. User can view statistics about number of visitors to their website, which products visitors mostly view.

### 5.2 Advantages and disadvantages

- Advantages:

* Focus on building products catalogue site
* Enhance visibility and effectiveness by drag and drop function
* Support website statistics
* Support products detail management

- Disadvantages:

* E-Commerce websites are not support
* Websites with volatile and complex data are not suitable.

## Functional Requirements

Function requirements of the system are listed as below:

* Account management
* Advantage template searching
* Default website template/theme creation
* Website template/theme customization
* Website’s statistics handler
* Product items management
* Payment method for premium features
* Website’s domain mapping

## Role and Responsibility

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Full Name** | **Role** | **Position** | **Contact** |
| **1** | Nguyễn Huy Hùng | Project Manager | Instructor | hungnh@fpt.edu.vn |
| **2** | Phạm Văn Thắng | Developer | Leader | thangpvse61092@fpt.edu.vn |
| **3** | Lê Trần Thịnh | Developer | Member | thinhltse61152@fpt.edu.vn |
| **4** | Phạm Khương Duy | Developer | Member | duypk60195@fpt.edu.vn |
| **5** | Lê Thanh Tuấn | Developer | Member | tuanltse60636@fpt.edu.vn |

**Table 1: Roles and Responsibilities**

# Report No.2 Software Project Management Plan

## Problem Definition

### Name of this Capstone Project

Site Builder for Product Catalogue (SBPC).

### Problem abstract

In Viet Nam, many websites support for building products catalogue site, but they have complex interface and manipulation.User cannot manage products detail information or view site statistics. In addition, they just support for adding products and categories simply or not support.

### Project Overview

#### Current Situation and Disadvantages

Some of popular websites in Viet Nam support for building sites

|  |  |  |
| --- | --- | --- |
| **Website name** | **Advantages** | **Disadvantages** |
| websieutoc.vn | Build sites of many fields such as products catalogue, services, fashion, beauty and medical. | Very confuse interface and system flow. After login to system, system moves to admin page, but when move to builder page, the interface is also admin page. User cannot change template. |
| wevina.vn | * Can change site type between private and business. * Disable site status from active to inactive and reversely. * Tool box for building site is easy to use | - Cannot add products and categories.  - Not support for mapping domain. |
| bizweb.vn | * Tool box for building site is easy to use and strongly supports for adding products quickly. * Allowsadding new module example photo gallery or map. * User can modify module position * Supports for customizing CSS and HTML * Supports for order management. * Integrates store to facebook.com, hangtot.com | - User must remember their created website name to login.  - Menu arrangement and interface areconfused.  - It is difficult to modify layout and background. |

**Table 2: Current sites builder service advantages and disadvantages**

#### The Proposed System

From above disadvantages, this project is going to build up a site builder for products catalogue. User can choose a default template and customize it. For site building manipulation, user can drag and drop elements from a tool box at builder page. User can also upgrade their account type to have more features. When completing building site, user can preview site and mapping domain. For report, site statistics will show information about number of visitors and which products mostly viewed.

#### Boundaries of System

**Boundaries**:

- The system is a web application, which concentrates on helping user build products catalogue sites

- For more feature example mapping existing domain or premium template, user must upgrade their account type.

- Site statistics will show information about number of visitors and which products mostly viewed.

**Development language**: C#

#### Development Environment

##### Hardware requirement

**For Server**

|  |  |  |
| --- | --- | --- |
| **Windows** | **Minimum Requirements** | **Recommended** |
| Internet Connection | Cable, Wi-Fi (4 Mbps) | Cable, Wi-Fi (8 Mbps) |
| Operating System | Window 7 | Window 7 |
| Computer Processor | Intel® Xeon® Quad Core 2.50 GHz | Intel® Core™ i3(2.50GHz) |
| Computer Memory | 1GB RAM | 2GB or more |

**Table 3: Hardware Requirement for Server**

##### Software requirement

- Window 7: operating system and platform for

development.

- SQL Server 2012: used to create and manage the

database for system.

- Visual Studio 2013: used to implement website and web service.

- Google Code & TortoiseSVN: used for source control.

- StarUML: used to create models and diagrams.

- Skype and gmail: used for communication and meeting.

## Project Organization

### Software Process Model

The Waterfall model was not working well for our project and we decided to use the Scrum model.

OVERVIEW DIAGRAM



Because of the project characteristics, we decide to make progress in series of sprints which are time boxed iterations in one week. At the beginning of one sprint, through sprint planning meeting, all team members will discuss together to define sprint backlog which is suitable to be completed within a week. Daily meeting and online conference are used to manage all activities.

### Roles and responsibilities

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Full name | Team Role | Scrum Team Role | Responsibilities |
| 1 | Nguyễn Huy Hùng | Project Manager | Product Owner | * Outline work in scrum backlog * Prioritize work * Answer question and deliver direction |
| 2. | Phạm Văn Thắng | Team Leader | Scrum Master | * Facilitate productivity – maximize team performance * Complete all individual work |
| 3. | Lê Trần Thịnh | Team Member | Scrum Team Member | * Commit individual product on time * Support each other to complete team work |
| 4 | Phạm Khương Duy | Team Member | Scrum Team Member | * Commit individual product on time * Support each other to complete team work |
| 5 | Lê Thanh Tuấn | Team Member | Scrum Team Member | * Commit individual product on time * Support each other to complete team work |

**Product Owner**, in this project is also Project Manager who supports the whole team by outlining works in the [scrum backlog](http://scrummethodology.com/the-scrum-backlog/), prioritizing it and being available to answer questions and deliver direction.

**Scrum Master** has responsibility to do everything he can do to facilitate productivity – address needs of the team and contribute to Product Owner to maximize team performance. As a real team player, he is required to complete all individual work.

**Scrum Team Member** is expected to be self-organized, cross-functional with high adaptability. All members have the right to do anything within the boundaries of project to reach the sprint goals and have responsibility not only to commit their individual product on time but also to support each other to ensure team can complete its work.

### Tools and Techniques

* Visual Studio 2012: Use to code software modules.
* MS SQL Server 2012 and SQL Management Tool: Use to create database for application.
* Integration Framework using MVC4, ADO.NET Entity Data Model.
* Tortoise SVN: Source version control.
* Google Code: Connect, synchronize source code and documents.
* MS Excel: Sprint Backlog.

## Project Management Plan

### Software development life cycle

## Coding Convention