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| |  |  |  |  | | --- | --- | --- | --- | | **logo ngan.png** | | **MINISTRY OF EDUCATION AND TRAINING** | | | **FPT UNIVERSITY** | | |
| Capstone Project Document |
| Maid Services |
| |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | **Group 06 – Report 1** | | | **Group member** | Bùi Tiến Tuân - Team Leader - SE60824  Mạnh Quang Tuyến - Team Member - SE60890  Trương Hải Đăng - Team Member - SE60841  Nguyễn Tấn Công - Team Member - SE60920 | | **Supervisor** | Mr. Nguyễn Trọng Tài | | **Ext. Supervisor** | N/A | | **Capstone Project code** | MS | | |

-Ho Chi Minh City, 09/2014-

***ACKNOWLEDGEMENTS***

Later

# Table of Contents

[Table of Contents 4](#_Toc388387159)

[List of Tables 5](#_Toc388387160)

[List of Figures 6](#_Toc388387161)

[Definitions, Acronyms, and Abbreviations 6](#_Toc388387162)

[Report No.2 Software Project Management Plan 7](#_Toc388387163)

[1. Problem Definition 7](#_Toc388387164)

[1.1 Name of this Capstone Project 7](#_Toc388387165)

[1.2 Problem Abstract 7](#_Toc388387166)

[1.3 Project Overview 7](#_Toc388387167)

[2. Project organization 8](#_Toc388387168)

[2.1 Software Process Model 8](#_Toc388387169)

[2.2 Roles and responsibilities 9](#_Toc388387170)

[2.3 Tools and Techniques 10](#_Toc388387171)

[3. Project Management Plan 11](#_Toc388387172)

[3.1 Task 11](#_Toc388387173)

[3.2 Task Sheet: Assignments and Timetable 14](#_Toc388387174)

[3.3 All Meeting Minutes 14](#_Toc388387175)

[4. Coding Convention 14](#_Toc388387176)

# List of Tables

[Table 1: Hardware Requirement for Server 8](#_Toc388387153)

[Table 2: Hardware Requirement for Web User 8](#_Toc388387154)

[Table 3: Roles and Responsibility Details 10](#_Toc388387155)

[Table 4: Task 13](#_Toc388387156)

# List of Figures

[Figure 1: Waterfall Model 9](#_Toc377683285)

# Definitions, Acronyms, and Abbreviations

# Report No.2 Software Project Management Plan

## Problem Definition

### Name of this Capstone Project

English: Building a web-based application that manages activities of the maid service.

Vietnamese: Xây dựng web-site hỗ trợ dịch vụ thuê người giúp việc.

Abbreviation: MS Website (Maid Services)

### Problem Abstract

Currently, most of job centers supply maid service with many functions such as posting maid’s information, maid searching by criteria (expected salary, age, experiences …) but the customers can’t post their private requests and give rating, comment about the maid that they have recruited. Moreover, maid’s information is not detailed and complete. The system can’t match and suggest the maid to the customer, negotiation and signing the contract are time-consuming.

### Project Overview

#### The Current System

There are have many website about work such as http://timviec.com, timviecnhanh.com, vietnamworks.com …. But they have some problem:

\* Advantages: Provider many information about works in Vietnam.

\* Disadvantages:

+ There is so much information.

+ There is no centralized information about Maid.

#### The Proposed System

Our site focuses on those who are busy with their works so they need to find maids to help them with household chores and the maids who are searching for jobs. Maids can quickly find job for themselves and it also makes it easy for people who are in need of finding maids to choose and recruit. With small amount of money, the website can connect those two together. The maids are people who don’t have much knowledge about IT, so our purpose is to create a website with ease of use and simple.

There are three main users whom the website interacts with including:

- Maid representation: Because of the lack of knowledge in IT, they can ask someone has knowledge to become their representation and register for them. Manage requested job, Search jobs, Apply job, View maid statistic.

- Customer: Manage recruitment, View customer statistic, Comment, Search maids, Rating, Apply maid.

- Staff: Can help maid to register and post info in place of them. Manage post time, Confirm request, Manage fee.

#### Boundaries of the System

The system is for maid and the people who are searching for maid.

The language is Vietnamese.

The end product includes: the website and documents involved with the system.

#### Development Environment

##### Hardware requirements

**For server**

|  |  |  |
| --- | --- | --- |
| Windows | Minimum Requirements | Recommended |
| Internet Connection | 4Mbps | 8 Mbps |
| Operating System | Window Server 2008 | Window Server 2012 |
| Computer Processor | Intel® Core 2 Duo | Intel® Core(TM) i5 CPU , M 460 @ 2.53GHz |
| Computer Memory | 1GB RAM | 3GB or more |

Table 1: Hardware Requirement for Server

**For Web User**

|  |  |  |
| --- | --- | --- |
| Web | Minimum Requirements | Recommended |
| Internet Connection | 2Mbps | 4Mbps |
| Web Browser | Chrome 20 | Chrome 31 |

Table 2: Hardware Requirement for Web User

##### Software requirements

* Microsoft Windows 7 Service Pack 1 and platform for development.
* SQL Server 2008 R2
* StarUML 5.0 and Microsoft Visio: used to create models and diagrams
* Skype: used for communication and meeting
* Visual Studio 2012: for backend system.
* Google Code & TortoiseSVN: used for source control.

## Project organization

### Software Process Model

With the schedule of weekly reports for every stage, the software will be developed by using waterfall model which is very simple and require minimal resource for implementation. With waterfall model, developing process will include six main phases:

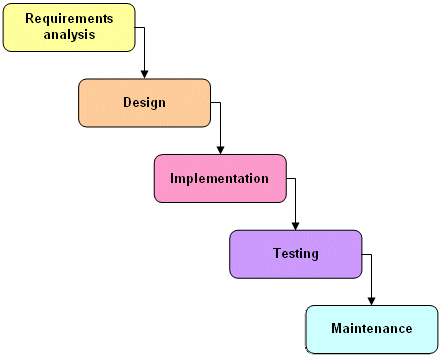


Figure 1 - Waterfall model

* **Requirement analysis and software definition**: The first phase is also the most important phase of the process which may cause great effect to other phases. This phase includes gathering as much as possible requirements from customer, or other information source like World Wide Web, and producing a most detail and accurate software definition.
* **System design**: This phase is fundamental for implementation phase. Based on customer’s requirements to create logical modules, and definite their inter relations. Using algorithm and diagram to describe implementation of those modules.
* **Implementation**: This phase consists of actually constructing the product as per the design specification(s) developed in the previous step. Typically, this step is performed by a development team consisting of programmers, interface designers and other specialists, using tools such as compilers, debuggers, interpreters and media editors.
* **Testing:**
  + **System implementation and Unit testing**: Developing software modules follow detail designs, and doing unit testing for each module.
  + **Integration and System testing**: Testing output, performance in modules integrating process, and retests all functions of whole system.
  + **User acceptance testing**: A proper execution of all the preceding stages ensures an application as per the provided requirements and most importantly, it ensures a satisfied client.
* **System deployment and maintenance**: After testing completely, the software is handle over client, developing team will respond for maintenance of the system.

### Roles and responsibilities

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Full name** | **Role in Group** | **Responsibilities** |
| **1** | Nguyễn Trọng Tài | Project manager | * Specify user requirement * Control the development process * Give out technique and business analysis support |
| **2** | Bùi Tiến Tuân | Team Leader, BA, DEV, Tester | * Managing process * Assign task for team member * Designing database * Clarifying requirements * Prepare documents * GUI Design * Create test plan * Coding * Testing |
| **3** | Mạnh Quang Tuyến | Team Member, BA, DEV, Tester | * Designing database * Clarifying requirements * Prepare documents * GUI Design * Create test plan * Coding * Testing |
| **4** | Trương Hải Đăng | Team Member, BA, DEV, Tester | * Designing database * Clarifying requirements * Prepare documents * GUI Design * Create test plan * Coding * Testing |
| **5** | Nguyễn Tấn Công | Team Member, BA, DEV, Tester | * Designing database * Clarifying requirements * Prepare documents * GUI Design * Create test plan * Coding * Testing |

Table 3: Roles and Responsibility Details

### Tools and Techniques

- Front-end technologies: HTML5, CSS3, JavaScript, jQuery, AJAX.

- Back-end: Website .NET MVC4

- Database Management System: SQL Server 2008 R2

## Project Management Plan

### Task

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **#** | **Task** | **Description** | **Output** | **Deliverables** | **Resource Needed** | **Dependencies and Constraints** | **Risk** |
| 1 | Create Software Requirements Specification | Create software requirements specification (SRS) | SRS document | SRS document before 18/09/2014 | 4 people for 4 days |  | Lack of experience when getting requirement. |
| 2 | Design Database | Create conceptual, logical and physical database design | Database Design and Database script | Design Database before 25/09/2014 | 4 person for 4 days | Depends on the completion of SRS | SRS may not be detailed enough to cover the business rules, causing the database design to be inappropriate or to be changed based on customers’ requirements. |
| 3 | Create Software Design Description (SDD) | Design the system in an OOP manner | Architecture design, detailed design, diagrams and design specification | SDD before 30/09/2014 | 4 people for 4 days | Depends on the completion of SRS | Risks may include choosing inappropriate architecture and design patterns, causing the system hard to maintain, or wasting coding efforts. |
| 4 | Layout Design | Create the main GUI for layout, and create global styles that will be applied to the GUI | HTML layout and CSS files | Complete before 30/09/2013 | 2 person for 1 week |  | Lack of professional designers in team. |
| 5 | Create Coding | Map the architecture design into source code, create the project solution files and common classes, and implement common functions. | .Net MVC4 project and solution file contain coding |  | 1 person for 3 days | Dependent on Architecture design and SRS |  |
| 6 | Coding | Implement the system based on the requirements. | Source code of the project, unit test reports | Executable programs and source code before 03/11/2014 | 4 people for 5 weeks | Depends on the completion of SRS,SDD, Database design, Coding framework | Unit test may not be performed thoroughly, causing spending many efforts in system test phase. |
| 7 | Test Plan | Make a plan for testing | Test plan document | Test plan before 10/11/2014 |  |  |  |
| 8 | System Test | Perform system test for the system. | System test report | Software Test Documentation before 20/11/2014 | 4 people for 4 days | Coding is finished | Lack of professional testers in team. Developers are also responsible for system testing, this may lead to compromise. |
| 9 | User manual | Create User manual document | Report 6 | Report 6 before 06/12/2014 | 4 people for 1 days |  |  |
| 10 | Input Initial Data | Collect and input initial data for the system before release. | Initial data |  | 4 people for 3 days | Coding and system test are finished |  |
| 11 | Deployment | Deploy the system on server. | Running website with domain and hosting | Full Project | 2 people for 3 days | Coding and system test are finished, initial data is inputted | The owner host lacks of support in some components such as database engine. |

Table 4: Task

### Task Sheet: Assignments and Timetable

### All Meeting Minutes

Refer to Meeting Minutes folder.

## Coding Convention

C#: Using to develop website.

Summary:

* Naming Convention.
* Indentation.
* Declaration.
* Code Examples

Follow “Code Conventions for the C# Programming Language, by Microsoft

<http://msdn.microsoft.com/en-us/library/ff926074.aspx>