**University of West of England**

**Full Name: Vuong Khac Duy**

**Student ID: 17036268**

**SOFTWARE ENGINEERING INDIVIDUAL REPORT**

**2017-2018**

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3. **Introduction**

In this report, I will write a project Dealer Management System (DMS) for Software Engineering. The project was done by our team with five energetic members with the guidance of an expert who is also our teacher. We look forward to improving the service for the customers and making aggressive sales of Successful Brother (SB) based the distributed dealership. That means the system is built to manage many different aspects of their company. Of course, the system must operate independently at five various locations throughout the country, but they remain connected and controlled by a single network from the Bristol central office. This software is designed as network software; It allows the affiliate to interact with each other as one. To address the functionality of the software (DMS), we use a database to store all the information of the services that have been performed as well as record the delivery and sale for customers; this is the best way to storing them. The system consists of several functions such as Logging car’s services, shipments of new parts and the sale of components, processing payments. However, to process payments, the DMS system must be able to bill the customer, record all transactions and information into the database of each agent. Each agent can check stock at any time. If it is low or low, then DMS will automatically order new stocks. Another function of the system is to find something, which the customer requires. DMS should have a look up function from another agent when that place has run out. Then it can be moved to the requested location, or the customer can go to the agent to pick up, and the information will be stored at the dealer. The function of the system is only completed to pay cash, and the system will be updated to be able to pay online giving users the convenience of purchasing. The last function is employee management. This feature allows managers to view employee profiles, such as employee behavior, ethics, working style. This will improve the performance of employees and service of SB company.

1. **Maintain through the year a “personal Power-up portfolio”**

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| Personal Power-up Portfolio Learning Activity Log Sheet | | | |
| **Activity no. 1** | **Name of activity: Professional development for CSCT professionals** | | |
| **Date: 10/09/2017** | **Who inspired it: Clare Chapman** | | **In which session?: 1** |
| **Background:-**  This is a presentation about an interview and how to prepare for applying for a position in a professional role within a business. It is based on the scoring system of each company to quickly find the suitable and qualified person for the job that the company needs during the registration process and will interview more through various forms such as phone interview or invite to the office for a direct interview. | | | |
| **Reflective activity log:-**  The activities revolve around starting the interview. The presentation provides a clear understanding of the skills and strengths that employers look for. This activity is based on experience learned from projects or tasks at UWE or personal experiences and results. Through its own learning experience and the importance of promoting, improving your strengths and skills. I think that this is very important because interviews not only meet the position you want to apply but also the plus points for you in the eyes of the employer. With the strengths and experience, you will have more opportunities for employers to consider in other positions better to meet the needs of the company. | | | |
| **Date completed/logged: 11/09/2017** | |  | |

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| Personal Power-up Portfolio Learning Activity Log Sheet | | | |
| **Activity no. 2** | **Name of activity: Individual report on professional development** | | |
| **Date: 29/09/2017** | **Who inspired it: Nick Plant** | | **In which session?: 2** |
| **Background:-** This presentation talks about creating a personal diary of your own that sets your own goals and decisions in the future to track your progress, work processes, and your personal goals. Focus on the things you need to improve yourself. The course encourages people to do for themselves. | | | |
| **Reflective activity log:-**  This activity revolves around creating a diary for yourself, recording information that you learned through projects and how that information influences you, utilizing information and how does that max. This activity has been saved on your login page so that you can review it anytime you want.  From this activity, I learned that it is essential to self-manage personal goals and orientations as well as the importance of evaluating information and determining the impact of information on yourself, along with personal development. It is essential to have a profile of your personal information and how to use it properly before the interview. This means that you take full advantage of the experience accumulated during the study and work to prepare the questions that can be given to you resolved from the employer and the answer. It makes you feel more confident and better at interviewing. It will be the second plus for you. | | | |
| **Date completed/logged: 30/09/2017** | |  | |

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| Personal Power-up Portfolio Learning Activity Log Sheet | | | |
| **Activity no. 3** | **Name of activity: Aptitude tests and assessment centres** | | |
| **Date: 3/11/2017** | **Who inspired it: Clare Chapman** | | **In which session?: 3** |
| **Background:-**  This presentation provides you with how to prepare to go to the company where the interview will take place, and how to qualify for the skill survey in the discussion. It includes what you did or will do for a project and how to solve your situation when faced with a problem. Not only test you handle jobs but also the employer can see how you work and how you behave in the workplace and how you treat people around you. | | | |
| **Reflective activity log:-**  In this activity, the primary focus is on aptitude tests and how they work, but also how we conduct for the first time. This activity takes place on UWE's Infohub with a trial. Each student will answer a list of questions and will, of course, be evaluated so that students can assess themselves.  Through this activity, I know the benefits and meanings of the ability test, which is what employers want to test applicants. Of course, practice is the best way to improve your skills and self-confidence during the application process. | | | |
| **Date completed/logged: 5/1/2017** | |  | |

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| Personal Power-up Portfolio Learning Activity Log Sheet | | | |
| **Activity no. 4** | **Name of activity: Placement searching and acquiring.** | | |
| **Date: 17/02/2018** | **Who inspired it: Clare Chapman** | | **In which session?: 4** |
| **Background:-**  This presentation focuses primarily on preparing or finding a position and the steps to have a perfect CV for yourself. Before applying for a job of a business, there should be a set plan and goal. In addition to preparing the situation, questions and answers can occur during the interview. | | | |
| **Reflective activity log:-**  In this activity we turn around to create an example of the STAR, we are the applicants and think the skills and the answers needed when the questions related to the career come from the employer. Also, we are offered other types of skills to increase our self-esteem or attitude towards the employer during the interview. The approach of the applicant and the way he or she answers the questions are also important factors for the employer to evaluate the employee profile of them in the future. This activity is then shared with the people around them to improve together, assess and comment on each other. It then gives the best points to include in your CV.  Through this activity, I find that there are a lot of issues that are raised because you really can not predict what questions you will be asked, what situations will be solved, or even how is the attitude of the person, who will interview you, so preparation is challenging. However, what you need is a relaxed state of mind before you step into face to face with the interviewer, confident and sure of the knowledge you already have. Preparing will help you to demonstrate well in the interview process such as fluent responses and make the right decisions when solving the problem given by the employer. | | | |
| **Date completed/logged: 21/02/2018** | |  | |

1. **The difficulty of myself during the project with everyone in the group**
2. **Communication**

My first difficulty in this project was to communicate with the members of the group. The reason is that English is my second language, but it is not good to be able to understand all that people say. Resulting in many language disagreements as well as difficulties in exchanging work assignments, even contributing ideas is very difficult. Sometimes I do not know what to do to be able to get along with everyone. However, my brothers have supported me with all the possibilities they have with a lot of methods to deal with, such as speaking slowly, explaining or using tools to help language translation to complete our project.

1. **Meeting time management**

Our second difficulty in implementing the project is meeting time. The reason is that we are not the same school year, even we are not the same course. So we do not have the same free time, which makes it very difficult for us to schedule meetings to discuss problems in the project. To complete the project on time, we need to have meetings to monitor the progress of the project because if something is not finished, it will delay the progression. So we have meetings even for public holidays. However, we need more sessions to spend more time exchanging better project improvements.

1. **Using tools to develop the project**

My next difficulty in this project is to use the support tools to develop the application. For example, using Astah to analyze the Object-Oriented design for DMS, using a database for storing project information, or using NetBeans to developing our application. This is the first time I have been exposed to tools for supporting software development, so it is quite tricky to get started with them. So I spent a lot of time researching them so that I could help the four members to complete the project better.

1. **Experience gained through the project**
2. **Improving English skills**

To be able to integrate with members of my group, I tried to communicate with them, contribute ideas and arguments during the project. As a result, my English skills have improved significantly. In the beginning, I did not even know what they were discussing, but after working together, now I'm able to contribute my ideas confidently, and share with them and complete the project on time.

1. **Team working**
   * 1. **Division of work**

Our team divided the project into small parts and then worked together and then continued the sequel. For example, we split the application into multiple functions then each person will analyze particular functions. Then we connect them for completion and then proceed to the next as coding, which is the same until the end of the project. The things I learned from this project is that all members can understand the project in common, each person can evaluate himself through the process of working and learning from the other members and growing up.

* + 1. **Planning for work**

Because this is a big project, we need to set up a concrete plan to complete the project on time. Of course, it includes planning for meetings and testing projects. We set a schedule for each goal to achieve the highest efficiency of the project. Through the project, I think that planning is essential for any action. The project is done more efficiently, and there is more time for unforeseeable risks.

* + 1. **Monitoring work progress**

With the plan set by our team before starting work, it is easy to control the progress of the project. With each time hook, specific will complete the particular part. With strict supervision, our project was completed ahead of schedule and the rest of the time we focused on issues such as software testing, or some suggestions for improving speed, or functionality newly launched can be made in the future.

1. **Learning the work of the other members**

This is the first time I have been contacted and worked with a group of members, so I learned a lot from them. From finding information for the project, thinking, analyzing the system, coding, planning and scheduling their work to achieving the highest efficiency. One more important thing that I learned from them is teamwork. How to work together, how to support each other, and how to behave during work together.

1. **My role**

As a member of the team, like four other members, I worked with them to plan the project, analyze the data, discuss difficult issues, and make suggestions for improving the product.

1. **Reflect on how, in my project team, different roles interact**

The rest of our team is not to divide the roles of individual individuals such as team leader, designer, analyst, coder. All members play the same position, leading not to be able to fully develop the ability of each person due to limited time. The time for meetings to monitor the process is limited, and the process sometimes has some problems due to some late work.

1. **Enhancement to the developed software application**

In the development process of the project, I found many shortcomings in the software, but due to limited time, we decided to develop it in the future with the hope of creating credibility for the users, as well as their transactional process. The system will be updated with information security at maximum level, so that customer information is kept entirely confidential.