CHAPTER 1

INTRODUCTION

This chapter briefly discuss on the overview of the project into three parts. The first part discusses on the problem statement discovered in real situation and findings. Next, the project objective is determined by project's goal and aim; follow by the project scope where the boundary limit is enclosed.

1.1 Introduction

In this age, technology is constantly become more high technology and modern. The computer is no an exception too. The development of new technologies have realized and focused on the interaction between computer and human.

Multi-user workstation can be the new thing to be uses on a computer. The function of the Multi-user workstation is to make a computer can be used by two people on the same time. This system may need the support from the virtual machine to complete the task. This multi-user workstation can be the new direction for the people to build the advanced device and system that can support many user on the same time.

For my final project, I will make a multi-user workstation to use by multi user simultaneously by using the some equipment like virtual machine and so others. This idea I get from last time project which did by my senior and my client requirement. My client request to make a computer that can uses by multi user simultaneously
1.2 Problem Statement

In this age, the computer become more powerful and modern, the hardware and the software using is more far greater from the past time. Even though, computer become more modern or using the high specification but so far computer just can uses by one person in one time and not all software can operate the workstation uses by multi-users simultaneously, normally all work is depend on the hardware to make it operate multi-user workstation.

Besides that, computer now only has one desktop and use it directly. The computer still don’t have the ability to operate two desktop to work on one screen for multi-user uses simultaneously. Even, now already got software that can operate multi operating system on a computer but the computer still not able to work simultaneously.

Furthermore, not all computer can use multi-keyboard and multi-mouse on one computer. Almost all the computer just able to run one mouse and keyboard on the same time. Without the virtual machine, the computer may have face the problem on connecting with the multi-mouse and keyboard.

1.3 Objectives

The following are the objective will be developed according to the development plan and it is to overcome the problem which are like workstation can uses by one person in one time, one computer only has one desktop interface, and not all computer can use multi-keyboard and mouse on one computer.

- To create a workstation to be used by multi-people simultaneously.
- To customize two desktop in one computer.
- To make a computer can use more than one keyboards and mouse on the same time.
1.4 **Scope**

The following are the scope that will be covered according to the development plan;

- **User**
  Multi-users able to use the system simultaneously.

- **Computer lab**
  This system can minimize the costing on computer lab.

1.5 **Thesis Organization**

This thesis is disjointed into two chapters where each chapter denotes different details in this project. Below displays a brief summary of the content for each respective chapter.

i. **Chapter 1**
   Introduction of the project background followed by the project problem statement, project objectives and project scopes.

ii. **Chapter 2**
    Research and literature review relevant to the project.

iii. **Chapter 3**
    Project analysis, design and methodology are presented.

iv. **Chapter 4**
    Design of the diagram presented.

v. **Chapter 5**
    Discuss on the system implementation phase.

vi. **Chapter 6**
    The testing result of the system and discussion on the result are presented.

vii. **Chapter 7**
    Conclusion of the thesis presented.