

# Chapter 1

## Introduction

### 1.1 Sources and importance of problems

The Enterprise Development Unit (E.D.U) at Durban University of Technology is the institution that provides knowledge for co-operation development. There are various sections which work on research and share knowledge and expertise to both internal and external departments. After working together with this section, it appears that the problem which the lecturers are facing is that they are not receiving information at the same time and sometimes their schedules were overlapped against each other which leads to schedule management issues. On the other hand, the research teams are too slow to upload the research information to ppthe main website (dut.ac.za) because they have to wait for the website's administrator to upload the information to the system. Therefore, the lecturers are unable to receive the information fast enough to improve their presentations.

Consequently, I developed an idea to assemble all the processes that were previously mentioned into one place and it will be easier to manage the system. Furthermore, university will no longer have to hire an administrator. This is because anyone in this section will be able to maintain the system, manage the online reserve system and manage the Blog's update by automatically sending the notification to people who are involved via email and it is convenient to maintain the system. The challenge for the university is to grant everyone access into the system and fix it as easy as possible, to make it more user friendly, reduce long-term cost, and to implement and maintain the system's security.

Regarding the problems mentioned earlier, I decided to create a website (EDU) Department which I use the website service site called “Wix” in order to assemble all the managements, and build it to become the connection center between people outside DUT and staff inside DUT. This was done in order to receive or to search for information and implement a reservation system for the lecturers which they receive notifications via email. Furthermore, all the staff are able to import all the information from research teams to the website by themselves immediately which leads to all the lecturers receiving the latest information without waiting for the administrator to import it.

## **1.2 The purpose of the project**

- 1.2.1 To Develop the reservation system to make it capable of online reservation
- 1.2.2 To provide the latest information possible by research team
- 1.2.3 To bring more convenience, and make processes faster for the presentation

## **1.3 Project’s framework**

- 1.3.1 Website properties
  - 1.3.1.1 Website’s data bases are editable and customizable
  - 1.3.1.2 Section’s base information
  - 1.3.1.3 Cooperation’s information
  - 1.3.1.4 Reservation information
  - 1.3.1.5 Contact information
  - 1.3.1.6 Section’s maps information
- 1.3.2 Login system management
  - 1.3.2.1 Able to investigate all the information and manage all users
- 1.3.3 Reservation system management
  - 1.3.3.1 Notification of the reservation will be directly send into registered Email

1.3.3.2 Automatically create the notification when reaching the date and time

1.3.3.3 System is able to add, edit, and cancel the reservation

1.3.4 System are open for problem reports and suggestions

1.3.4.1 The questions those people frequently ask will be automatically send to the emails that registered in the system

#### **1.4 Advantages**

1.4.1 The system will make online reservation possible

1.4.2 Deduct the errors, save the time for checking individual schedule and easy to manage

1.4.3 Save website's long-term maintenance cost and university does not need to hire the administrator because the interface is user friendly, everyone is able to use, edit, and check.

1.4.4 Entire system in the website is editable in smart phones, no computers required

1.4.5 The website support mobile site