**Campus resource management system**

**Phase 2**

Subject: System Analysis and Design

Code: SECD2613

Section 07

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**Overview of the project:**

This project is designed to solve this university systems issues. The main focus of the project is to deliver IS that handles large amounts of data and automates most of the processes to reduce errors. This project is covering four important areas to enhance its processes: Facility and booking management, Event management, student management and communication and notification.

**Problem statement:**

The current system suffers from frequent input errors and delaying of processes and the system output is usually similar or close to its input due to lack of critical processes. The system also lacks some essential technical hardware equipment, while depending mainly on human workforce without much computerized intervention.

Not to mention that the system is difficult to use for new users.

**Proposed solutions:**

To develop more advanced subsystems that can function together to maximize the output of the program, reduce the input errors, speed up the processes and can ease the management processes.

**Information gathering process:**

We used 3 methods to gather information about the current system and what the users want in the new system (2 interactive methods and 1 UNOBTRUSIVE).

The methods are:

1. Interview.
2. Questionnaire.
3. Investigation.
4. **Interview:**

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1. **Questionnaire:**

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1. **Investigation:**

…

**Requirement Analysis:**

Based on the information gathered we found information about current business process, functional requirements, and non-functional requirements.

**Current business Process:**

**Facility booking and reservation management subsystem:**

In this subsystem we have 2 main entities student and booking management, so the processes is as follows:

1. Student: can book campus resources such as sport fields, libraries, restaurants, entertainment facilities, classrooms, etc..., they also can make all types of facility reservations as an example rooms reservations, suites reservations and facility reservations.
2. Booking management: Management can check the availability of facilities, confirm or deny reservations, a issuing reservation slip containing information about the users, the reserved facility and the date, and can be stored in reservation data store.

The workflow:

1. The student goes to the management office.
2. Then the student provides his/her information including name, ID.
3. Then the student provides the reservation details, including date and what facility wants to book.
4. Then the officer checks for the availability of the requested facility.
5. Then the officer provides information about if the facility is available on that date or not to the student.
6. And then the officer asks the student if they would like to confirm the reservation.
7. If the student confirms the officer will issue a slip containing the information about the reservation and make another copy to store it and change the availability of the facility.