

**Technological Institute of the Philippines  
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**College of Computer Studies**

**CS 304 - CS33S2 - Software Engineering 2**

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<b>Title:</b> Your Health, Always in Good Hands: Patient Information Management System for Antipolo Centro de Medikal Hospital, Inc.	
<b>Laboratory Exercise 1.1 Project/Software Checklist</b>	

**Module 1 - Security**

It handles the user login by requiring the user to enter their user ID and password and their level of access. The SHA-256 algorithm is used to encrypt user's and patients data for enhanced security.

**Submodule 1 - Level of Access**

It defines the actions a specific user can perform in the system. The level of access includes Admin, Receptionist, Doctor, Nurse, and Cashier.

**Submodule 2 - User Login**

It requires a user ID and password that tallies with the one contained in the database to successfully login to the system.

### **Submodule 3 - Forgot Password**

It allows the user to change the password through answering security questions

## **Module 2 - Registration**

It collects information about a patient or employee upon registering a new record or account.

### **Submodule 1 - Hospital Personnel**

It requires Employee ID, Employee Name, Department, Security Questions and Answers to successfully register a hospital personnel in the system.

### **Submodule 2 - Patient**

It requires Patient ID, Personal Information, and Medical History to successfully register a patient in the system.

## **Module 3 - Dashboard**

It displays necessary hospital information such as total admitted patients, total available hospital personnel, and total newly admitted patients.

### **Submodule 1 - Total Admitted Patients**

It displays the current total admitted patients in the hospital.

### **Submodule 2 - Total Available Hospital Personnel**

It displays the current total available hospital personnel on duty.

### **Submodule 3 - Newly Admitted Patients**

It displays the total newly admitted patients for the day.

## **Module 4 - Patient Management**

It handles viewing and updating patient records.

### **Submodule 1 - View Patient Records**

It allows the user to view information related to the selected patient.

### **Submodule 2 - Update Patient Records**

It allows the user to update an information about a patient

## **Module 5 - Search**

It allows users to search for a specific patient or employee by using their unique ID or surname.

### **Submodule 1 - Patient Search**

It allows users to search for a particular patient according to patient ID and name.

### **Submodule 2 - Hospital Personnel Search**

It allows users to search for a particular hospital personnel according to employee ID, name, and department.

## **Module 6 - Billing and Payment**

It handles generating bills for a patient, collecting payment, and providing receipts.

### **Submodule 1 - Generate Bill**

It generates a comprehensive bill comprising the total cost of services availed by the patient in the hospital.

### **Submodule 2 - Payment**

It processes payment made in cash only.

### **Submodule 3 - Receipt**

It confirms payment and proceeds to generate the corresponding receipt.

## **Module 7 - Maintenance**

It provides access for adding new patients or employees, updating and archiving existing patients and employees, and backing up data.

### **Submodule 1 - Add**

It allows users to add new patients and hospital personnel to the system.

### **Submodule 2 - Edit**

It allows users to edit existing patients and hospital personnel information to ensure that data is up-to-date.

### **Submodule 3 - Archive**

It allows users to store inactive patients and hospital personnel in an archive for future reference.

#### **Submodule 4 - Back-up**

It allows users to backup data to protect and preserve system data.

### **Module 8 - Report**

It provides reports about crucial information within the hospital and the system such as patient admission, patient medical history, and user logs.

#### **Submodule 1 - Patient Admission Report**

It generates reports regarding patient admission based on the specified date range.

#### **Submodule 2 - Patient Medical History Report**

It generates medical history reports for a particular patient to serve as reference for hospital personnels.

#### **Submodule 3 - User Log Report**

It generates a report about user logs for security purposes based on the specified date range.

## **Module 9 - Help**

It displays a help page to guide the user on how to use the system.

### **Submodule 1 - User Manual**

It provides a comprehensive user guide for hospital personnel to guide them on how to navigate and use the patient information management system.

## **Module 10 - About**

It displays the information about the system and its developer.

### **Submodule 1 - System Version**

It displays the current system version of the patient information management system.

### **Submodule 2 - Developer**

It displays information regarding the development team behind the creation of the patient information management system.