

Medical Center

Supervisor: *LÊ THANH NHÂN*

Semester: *II*

Batch No: *T5.2306.E1*

Group No: *04*

Order:	Full name	Roll No.
<i>1.</i>	<i>Nguyễn Minh Hoàng</i>	<i>Student1345179</i>
<i>2.</i>	<i>Ngô Thái Vĩnh</i>	<i>Student1269826</i>

Month:04 Year:2024

This is to certify that

Mr. NGUYEN MINH HOANG

Mr. NGO THAI VINH

Have successfully Designed & Developed:

Medical Center

Submitted by:

Mr. LE THANH NHAN

Date Of Issue:

Authorized Signature:

Content

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Acknowledge

First and foremost, we would like to express our deepest appreciation to our admirable instructor – Mr. LE THANH NHAN. During the time of the project, he continually and convincingly conveyed a spirit of adventure in regard to research and scholarship, and an excitement in regard to teaching. Without his guidance and persistent help, this project would not have been possible. Therefore, once again, we truly value your dedication and guidance, Mr. NHAN.

Next, it would have been impossible to carry out and complete this project without the collaboration among our team members. Although we have gone through many obstacles during the project implementation, eventually, we gained what we aimed at by our hard work, our strong commitment, and of course, our brotherhood.

Finally, thanks to Aptech's e-Project team, we had a golden opportunity to apply what we have learned into reality and gain hands-on experience which is essential for our future

Synopsis

The Medical Center System is a robust platform tailored to streamline administrative processes and elevate operational efficiency within medical facilities. This comprehensive solution encompasses features such as user authentication, patient and staff management, transaction recording, billing, and reporting, empowering healthcare professionals to prioritise patient care.

Characterised by an intuitive interface and user-friendly navigation, the system ensures accessibility and ease of use for all personnel, facilitating seamless access to critical information and functionalities. From maintaining comprehensive patient records to facilitating financial transactions and generating insightful reports, the system caters to the multifaceted needs of medical centres.

The project acknowledges the collaborative efforts of the project team, clients, testers, stakeholders, and end-users in realising the Medical Center System. Their dedication, expertise, and support have been pivotal in achieving project objectives and ensuring its success.

In summary, the Medical Center System represents a significant stride in medical administration, promising heightened efficiency, precision, and quality in patient care delivery.

Review 01

Design Plan: Medical Center	Document Name: Problem Definition	SWD/Form No.01/PD/Ver1.0
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Problem Definition

1. The healthcare industry faces challenges in efficiently managing patient information, appointments, transactions, and billing. To address these challenges, our project aims to develop a Healthcare Management System using JavaFX. The system will provide the following functionalities:
2. **Authentication and Employee Verification:** Implement a secure authentication system to ensure that only authorized personnel can access the system.
3. **Graphical User Interface (GUI):** Design an intuitive GUI with a dynamic menu interface to facilitate easy navigation and interaction for users.
4. **PMC Employee Functions:** Enable PMC staff to perform essential tasks such as adding, viewing, editing, and deleting information related to doctors and patients.
5. **Transaction Management:** Allow PMC staff to record patient consultations, diagnoses, treatments, and other relevant transactions accurately.
6. **Billing and Invoice Generation:** Provide functionality for PMC staff to create and print invoices for patient services rendered.
7. **Data Query and Reporting:** Develop features that allow PMC staff to query various data points such as patient visit counts, doctor counts, and other relevant metrics for reporting and analysis purposes.
8. **Application Exit Feature:** Include an option for users to gracefully exit the application when they have completed their tasks.

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Design Plan: Medical Center	Document Name: Customer Requirements Specifications	SWD/Form No.02/CRSVer1.0
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Customer Requirements Specifications

I. CRS/Requirements Specifications

Client/Project Undertaken:

1. List of inputs to the system
 - Authentication credentials (username, password) for logging in.
 - Information about doctors and patients (names, contact details, medical history, etc.).
 - Details of patient consultations, diagnoses, treatments, and transactions.
 - Billing information including services rendered and associated costs.
2. List of outputs expected from the system
 - Successful login confirmation or authentication failure message.
 - Display of doctor and patient information.
 - Generation and printing of invoices for patient services.
 - Query results such as patient visit counts, doctor counts, and other relevant metrics.
 - Reports based on queried data for analysis purposes.
3. Overview of processes involved in the system
 - Authentication and authorization of users.
 - Management of doctor and patient information.
 - Recording patient consultations, diagnoses, treatments, and transactions.
 - Billing and invoice generation for patient services.
 - Data querying for retrieving specific information.
 - Report generation for analysis and decision-making purposes.

Admin/Project Undertaken:

1. List of inputs to the system

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Design Plan: Medical Center	Document Name: Customer Requirements Specifications	SWD/Form No.02/CRSVer1.0
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- Administrative login credentials.Access control settings for different user roles.
- Access control settings applied to user roles.
- System configuration confirmation messages.

List of outputs expected from the system

2.

- Admin login confirmation or authentication failure message.
- Access control settings applied to user roles.
- System configuration confirmation messages.

3. Overview of processes involved in the system

- Admin authentication and authorization.
- Configuration of access control settings for different user roles.
- System configuration management to ensure smooth operation and security.

Hardware and software required for implementing the project	
1	Operating system: Windows 10 higher
2	Hardware: CPU Cores with 2 Gigabytes of RAM or better
3	Font Unicode: Arial, Tahoma, Lucida Console, Times New Roman, etc...
4	Other requirement: A working internet connection

CRS/Customer Acceptance Criteria

S.No	Customer's Acceptance Criteria
1	Valid login credentials when logging in then grant access or display authentication failure.
2	System access when viewing doctor info then displays doctor details.
3	System access when adding patient info then store details.
4	System access when recording patient transactions then log accurately.
5	System access when generating patient invoices then list services and costs.

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Design Plan: Medical Center	Document Name: Customer Requirements Specifications	SWD/Form No.02/CRSVer1.0
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II. Project Plan

1. Project Details	
+	Name of the Client: Medical Center
+	Date of Project Plan: 16 April 2024
+	Project Vision/Objectives:
	Due to its good service and fame, the number of patients visiting the doctors at the center is increasing day by day. With the constant rise in the patients, the staff of PMC find it difficult to take care of the daily transactions. The management of PMC has decided to automate the entire system which will reduce the staff effort.
+	Scope:
	The Desktop application helps the medical center by managing doctors' appointments, patients' billing, treatment history, diagnostics information, and administrative activities, managing patient information, doctor information.
+	Our understanding of the client organization:
	Philadelphia Medical Center (PMC) is one of the leading medical centers in Great Lakes Region, United States of America (USA). Most of the doctors in that area conduct their private practice in PMC. The treatment given by the medical center is believed to be one of the best and it has good service.
+	Project Organization with Responsibilities and Authorities:
	Analyst, Designer, Developer, Tester, Implementation Engineer, Maintenance Engineer
2. Project Initiation/Requirement Documents	
	<ul style="list-style-type: none"> - Design Documentation - Installation Guide - User Guide

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Review 02

Design Plan: Medical Center	Document Name: Architecture and design of the Application	SWD/Form No.03/ARD/Ver1.0
Effective Date: 13/04/2024	Version 1.0	Page No: 6 of 42

Architecture and design of the Application

I. Application Architecture

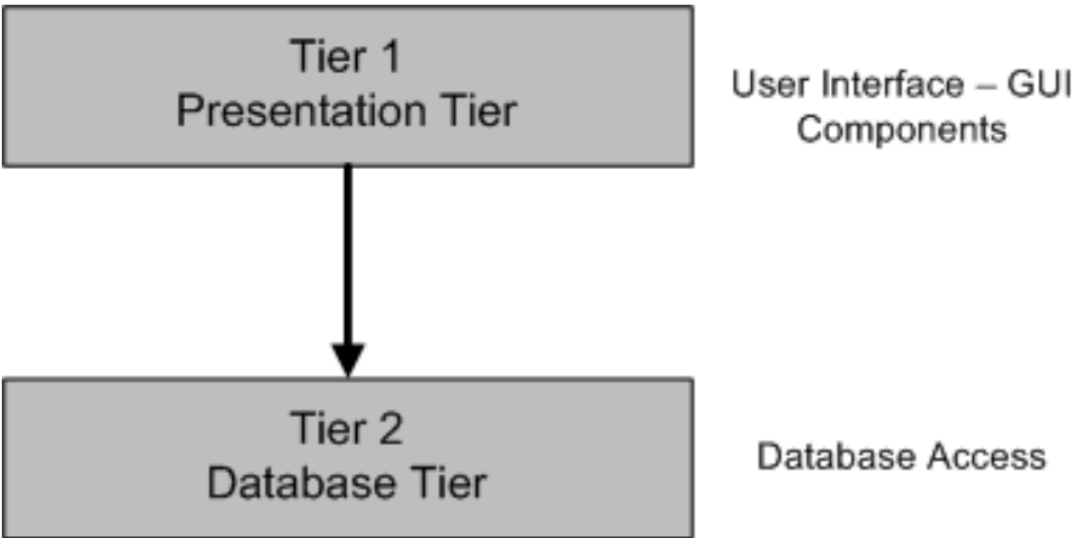


Figure 1.1: Two-Tier Architecture of the Project

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Design Plan: Medical Center	Document Name: Architecture and design of the Application	SWD/Form No.03/ARD/Ver1.0
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II. Data Flow Diagram

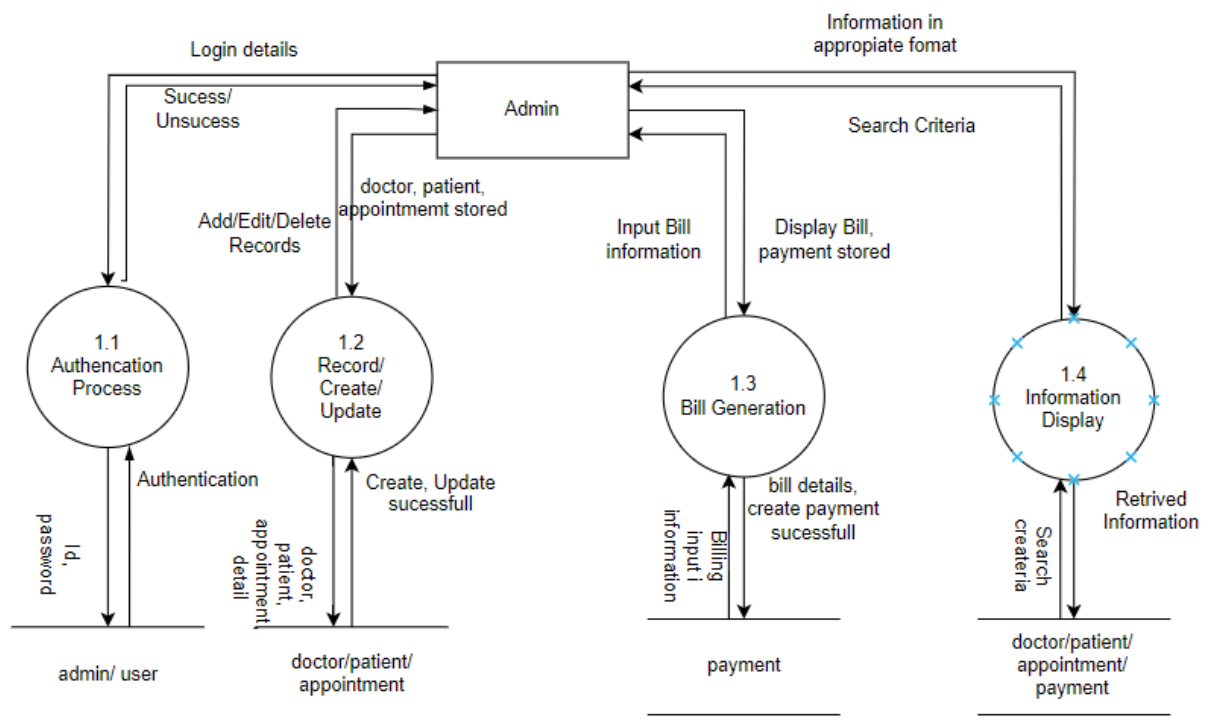


Figure 1.3: DFD Level 1 - Main Processes of Admin (Staff)

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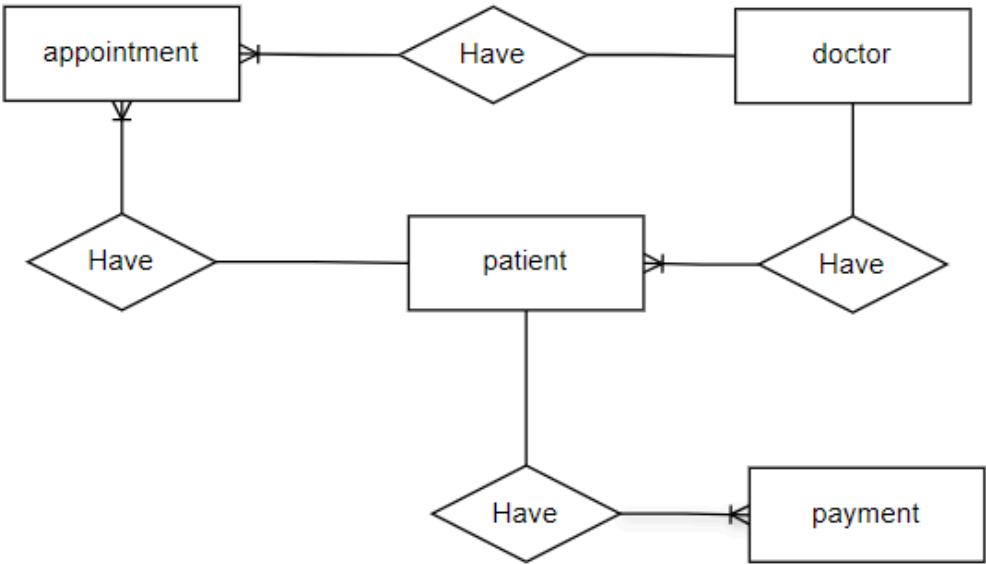
Design Plan: Medical Center	Document Name: Architecture and design of the Application	SWD/Form No.03/ARD/Ver1.0
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Design Plan: Medical Center	Document Name: Entity Relationship Diagram	SWD/Form No.04/ERD/Ver1.0
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Entity Relationship Diagram

I. ERD

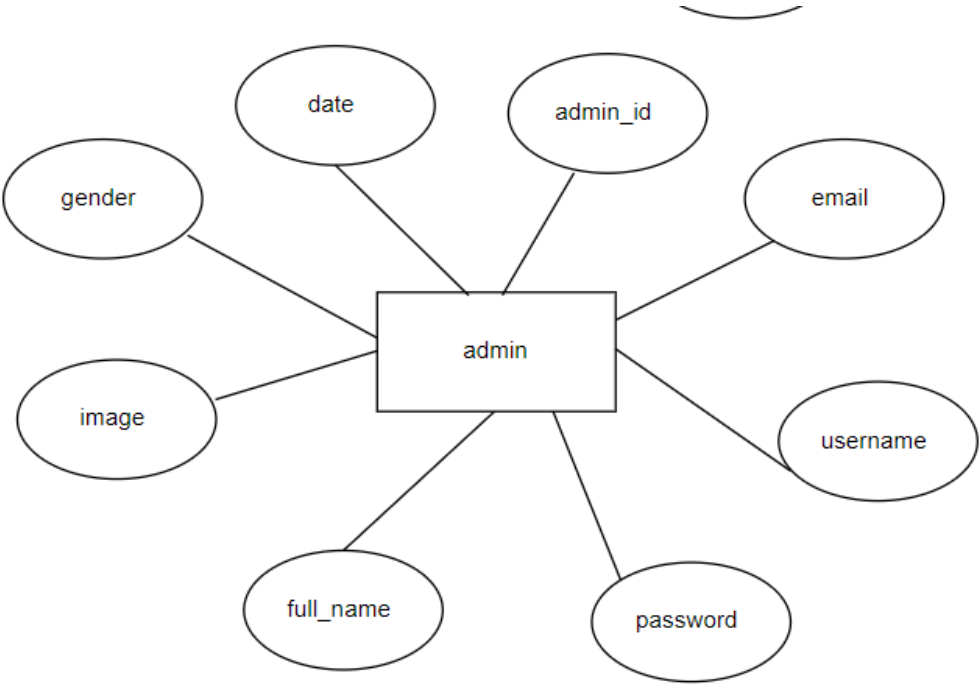


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Design Plan: Medical Center	Document Name: Entity Relationship Diagram	SWD/Form No.04/ERD/Ver1.0
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II. ERD Properties

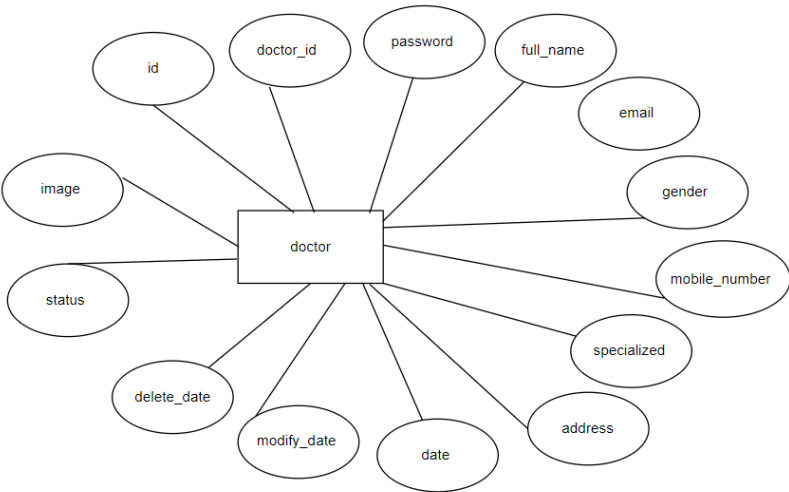
1. Admin



2. Doctor

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Signature		
Date		

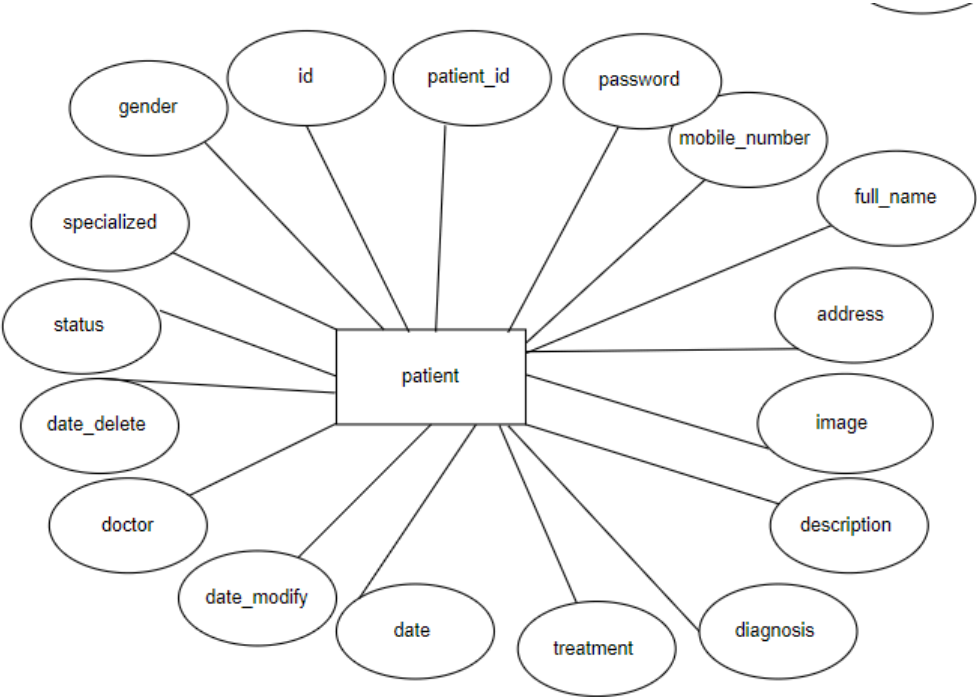
Design Plan: Medical Center	Document Name: Entity Relationship Diagram	SWD/Form No.04/ERD/Ver1.0
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Design Plan: Medical Center	Document Name: Entity Relationship Diagram	SWD/Form No.04/ERD/Ver1.0
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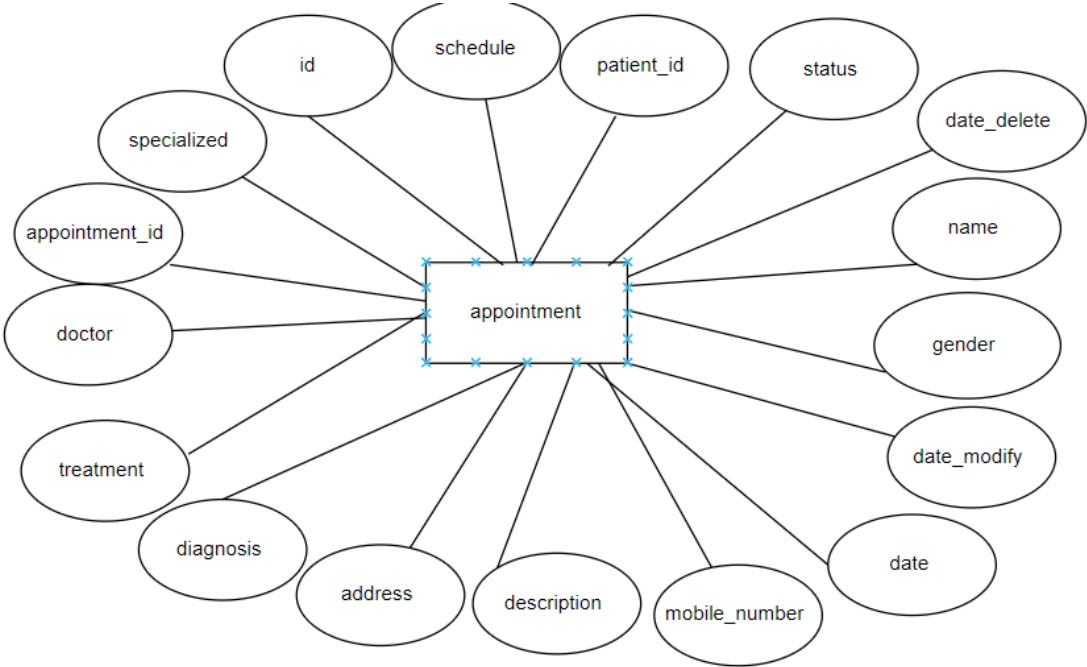
3. Patient



4. Appointment

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	Project Group No: 04	LE THANH NHAN
Signature		
Date		

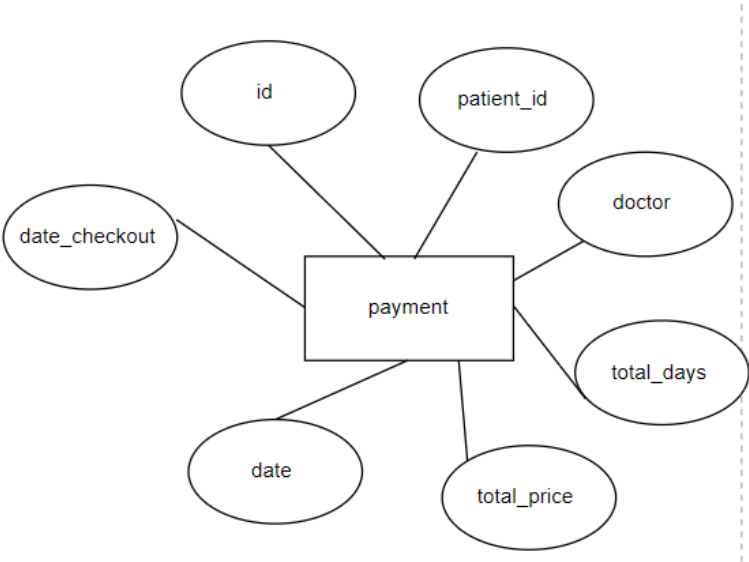
Design Plan: Medical Center	Document Name: Entity Relationship Diagram	SWD/Form No.04/ERD/Ver1.0
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5. Payment



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Design Plan: Medical Center	Document Name: Table Design	SWD/Form No.05/TAB/Ver1.0
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Table Design

1. Table Design

1. Admin

Table: Admin				
Field Name	Data Type	Null	Key	Description
admin_id	int	No	PK	Identification code of the admin
username	varchar(100)	No		Userame of the admin account
password	varchar(100)	No		Password of the admin account
full_name	varchar(100)	Yes		Full name of the admin
email	varchar(100)	No		Email of the admin
image	varchar(500)	Yes		Image of the admin
gender	varchar(50)	Yes		Gender of the admin
date	date	Yes		Account creation date

2. Doctor

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Design Plan: Medical Center	Document Name: Table Design	SWD/Form No.05/TAB/Ver1.0
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Table: Doctor				
Field Name	Data Type	Null	Key	Description
id	int	No	PK	Identification code of the doctor
doctor_id	varchar(50)	No		Identification code of the doctor account
password	varchar(100)	No		Password of the doctor account
full_name	varchar(100)	No		Full name of the doctor
email	varchar(100)	No		Email of the doctor
gender	varchar(100)	Yes		Gender of the doctor
mobile_number	bigint	Yes		Phone number of the doctor
specialized	varchar(100)	Yes		Specialized of the doctor
address	varchar(500)	Yes		Address of the doctor
date	date	No		Account creation date
date_modify	date	Yes		Modification date of account
date_delete	date	Yes		Deletion date of account
status	varchar(50)	No		
image	varchar(500)	Yes		

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Design Plan: Medical Center	Document Name: Table Design	SWD/Form No.05/TAB/Ver1.0
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Patient

Table: Patient				
Field Name	Data Type	Null	Key	Description
id	int	No	PK	Identification code of the patient
patient_id	bigint	No		Identification code of the doctor account
password	varchar(100)	No		Password of the patient account
full_name	varchar(100)	No		Full name of the patient
gender	varchar(100)	No		Gender of the patient
mobile_number	bigint	Yes		Phone number of the patient
diagnosis	varchar(200)	Yes		
treatment	varchar(200)	Yes		
image	varchar(500)	Yes		Image of the patient
description	varchar(200)	Yes		
address	varchar(500)	Yes		Address of the patient
date	date	No		Profile creation date
date_modify	date	Yes		Modification date of profile
date_delete	date	Yes		Deletion date of profile
status	varchar(50)	No		
doctor	varchar(50)	No		Identification code of the doctor account
specialized	varchar(100)	No		Specialized of the doctor

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Design Plan: Medical Center	Document Name: Table Design	SWD/Form No.05/TAB/Ver1.0
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3. Appointment

Table: Appointment				
Field Name	Data Type	Null	Key	Description
appointment_id	int	No	PK	Identification code of the appointment
patient_id	bigint	No	FK	Identification code of the patient
name	varchar(100)	No		Name of the patient
gender	varchar(45)	No		Gender of the patient
description	varchar(200)	No		
diagnosis	varchar(200)	No		Doctor's diagnosis
treatment	varchar(200)	No		Doctor's treatment
mobile_number	bigint	No		Phone number of the doctor
address	varchar(500)	No		Address of the patient
date	date	No		Appointment creation date
date_modify	date	Yes		Modification date of appointment
date_delete	date	Yes		Deletion date of appointment
status	varchar(50)	No		
doctor	varchar(50)	No	FK	Identification code of the doctor account
specialized	varchar(100)	No		Specialized of the doctor
schedule	date	No		Appointment date

4. Payment

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Signature		
Date		

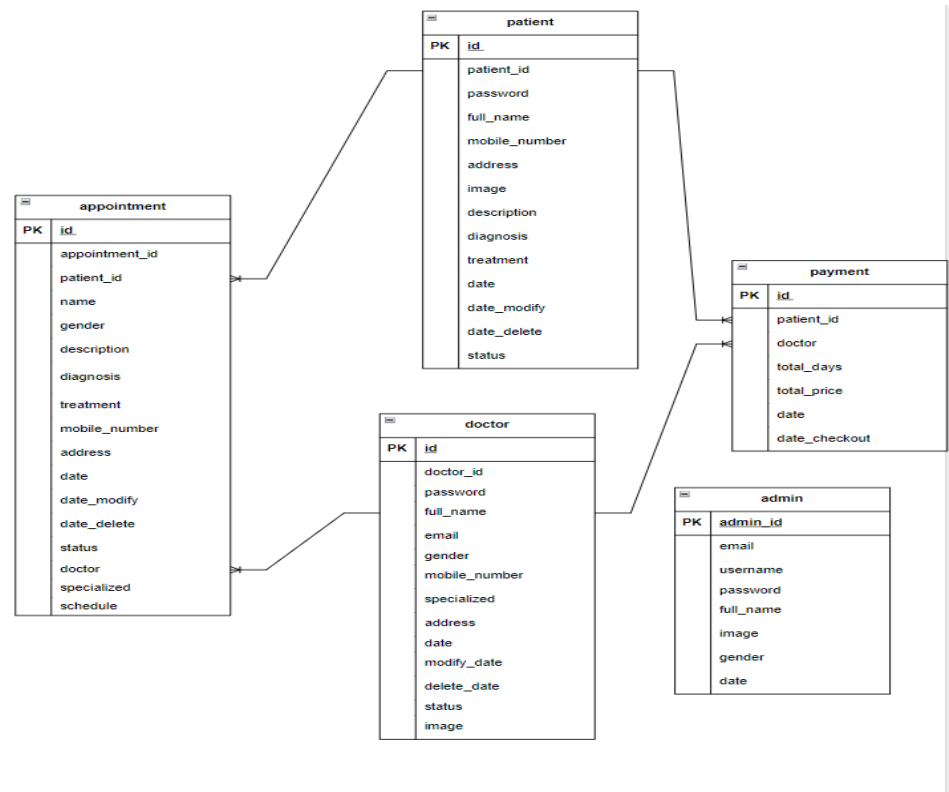
Design Plan: Medical Center	Document Name: Table Design	SWD/Form No.05/TAB/Ver1.0
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Table: Payment				
Field Name	Data Type	Null	Key	Description
id	int	No	PK	Invoice identification code
patient_id	int	Yes	FK	
doctor	varchar(250)	Yes		Physician identification codes
total_day	int	Yes		Number of days in hospital
total_price	double	Yes		Total hospital fees
date	date	Yes		Invoice entry date
date_checkout	date	Yes		Invoice payment date

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Design Plan: Medical Center	Document Name: Table Design	SWD/Form No.05/TAB/Ver1.0
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2. Relationship Diagram

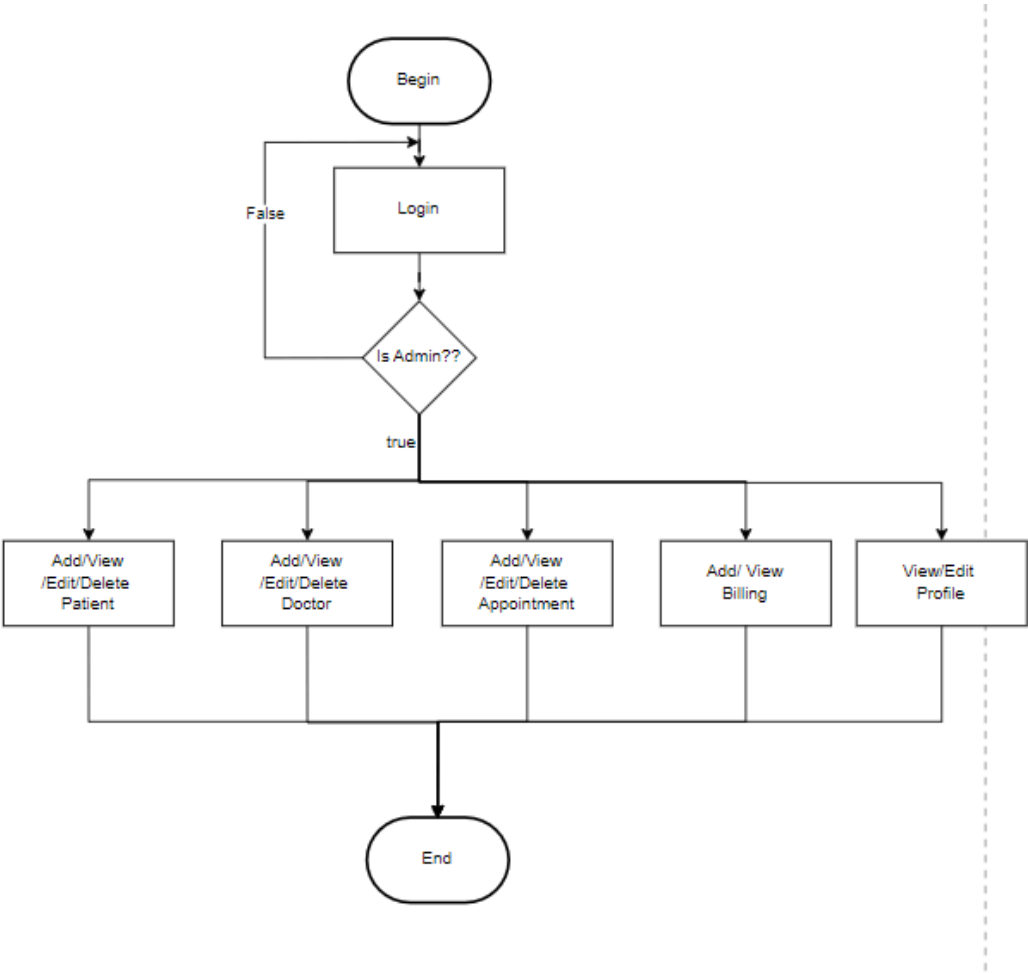


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Design Plan: Medical Center	Document Name: Algorithm	SWD/Form No.06/ALG/Ver1.0
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Algorithm

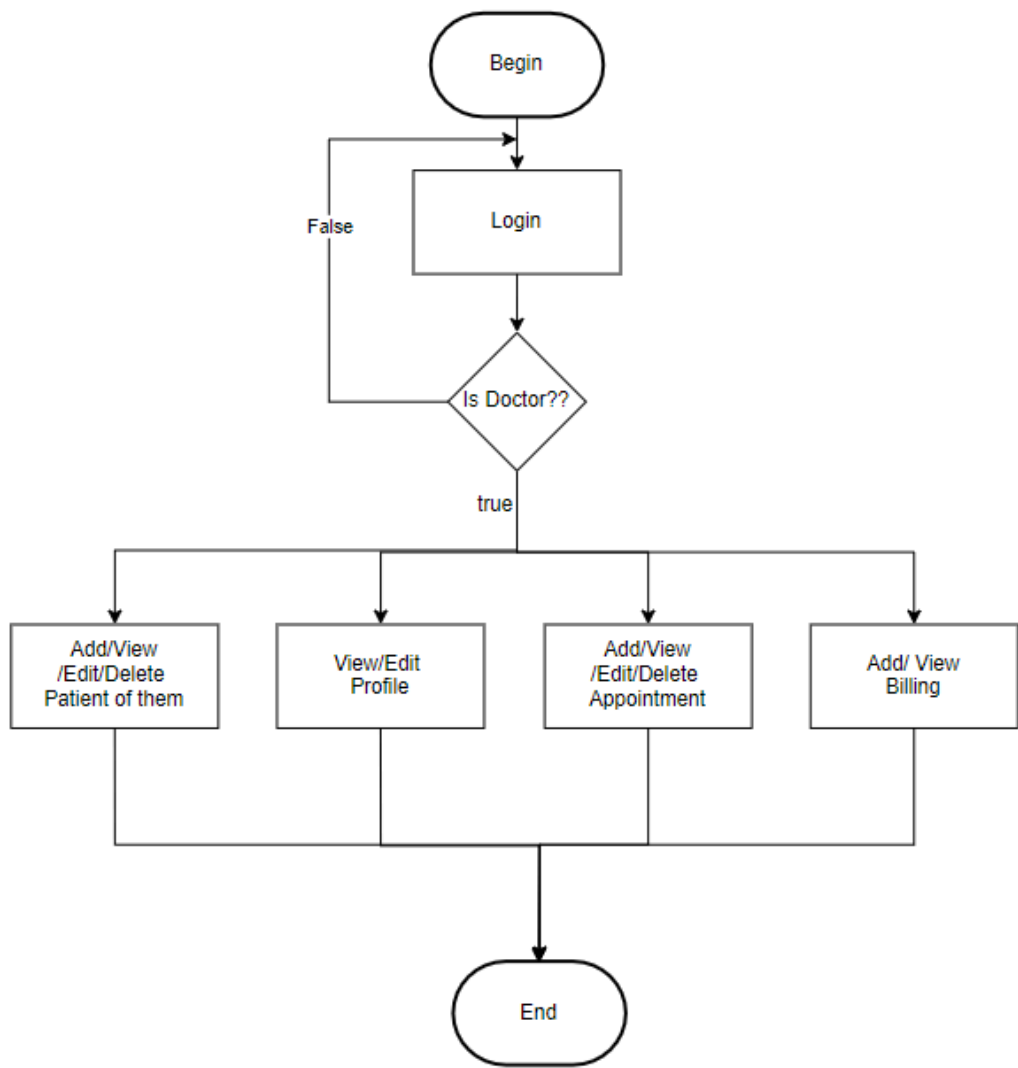
I. Administraror



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Signature		
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Design Plan: Medical Center	Document Name: Algorithm	SWD/Form No.06/ALG/Ver1.0
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II. Doctor




	Prepared by (Student)	Approved by (Faculty)
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Date		

Review 03

Design Plan: Medical Center	Document Name: Screen shots	SWD/Form No.07/SS/Ver1.0
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Screen shots


I. Login Page



Login Account
Admin Portal

☐ Show Password

Login



Select User ▼

Have no account yet? [Register here](#)

Description :
Login

Properties	Value
Document theme and color scheme	#fff
Form - Background color	#fff
Title - Font Size	20px
Title - Font Color	#188ba7
Title - Font Style	Tahoma

	Prepared by (Student) Project Group No: 04	Approved by (Faculty) LE THANH NHAN
Signature		
Date		

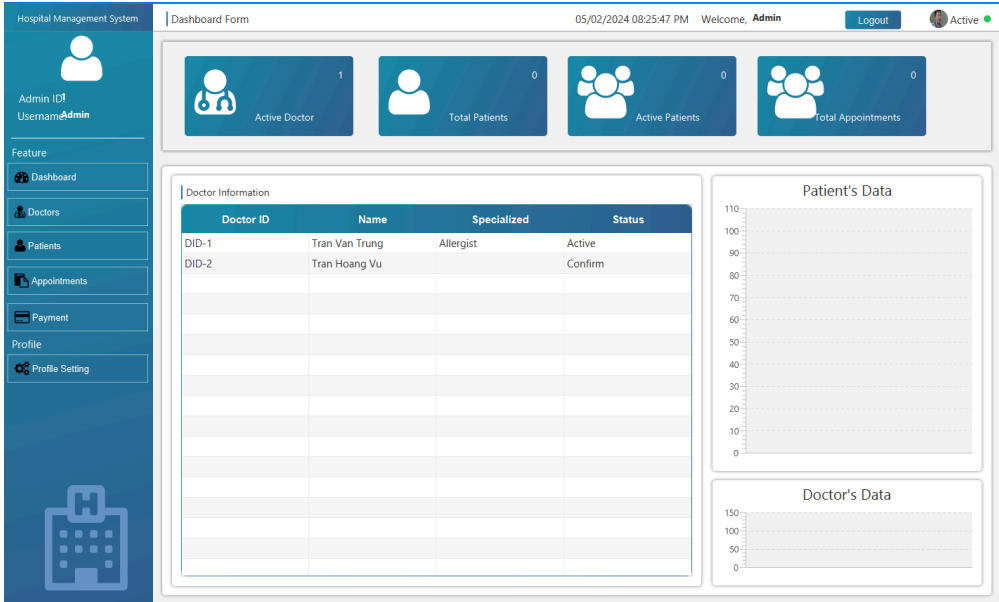
Design Plan: Medical Center	Document Name: Screen shots	SWD/Form No.07/SS/Ver1.0
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Title - Alignment	Center
Background color of Controls on the form	#FFF
Control Caption - Font size	12px

	Prepared by (Student)	Approved by (Faculty)
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Signature		
Date		

Design Plan: Medical Center	Document Name: Screen shots	SWD/Form No.07/SS/Ver1.0
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II. Dash Board



Description : Dashboard and Chart

From : Login

To : Staff Management (Admin), Doctors and Patients Management (Staff), Appoiment Manager, Payment Manager, Profile Page, Logout Account

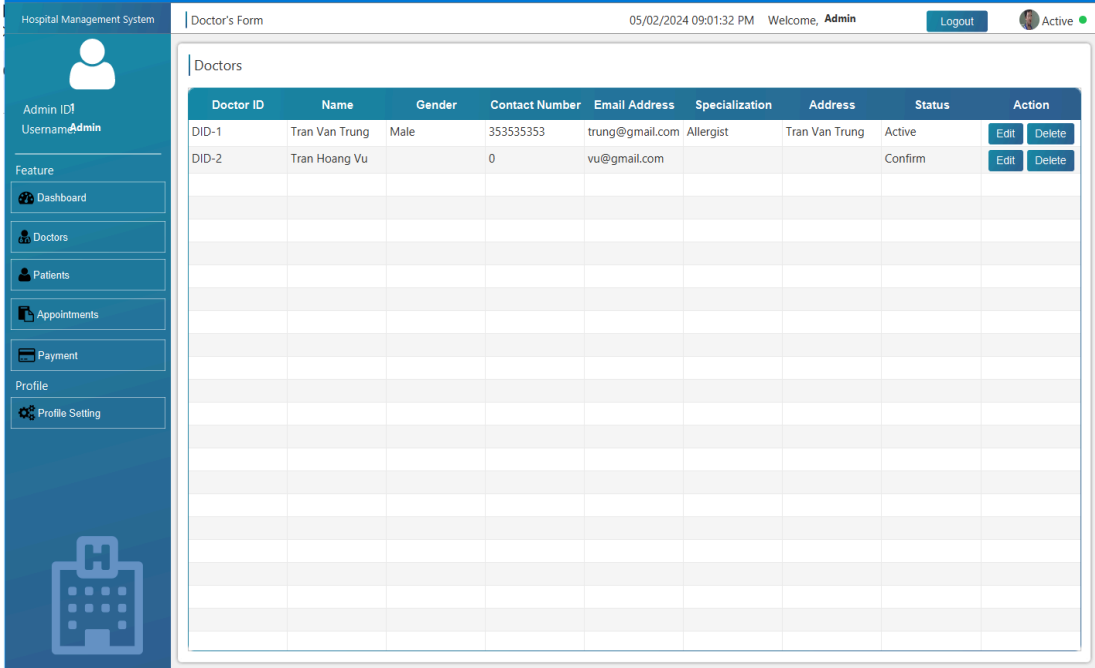
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Form - Background color	#fff
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Title - Font Color	#000
Title - Font Style	System
Title - Alignment	Left
Background color of Controls on the form	#FFF
Control Caption - Font size	14px
Control Caption - Font Color	#000

	Prepared by (Student)	Approved by (Faculty)
	Project Group No: 04	LE THANH NHAN
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Date		

Design Plan: Medical Center	Document Name: Screen shots	SWD/Form No.07/SS/Ver1.0
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Control Caption - Font Style	System
Control caption and controls - Alignment	Left
Command button - Alignment	Center

III. Doctor Manager



Description : Doctor List
From : Dashboard
To : Edit/Delete Doctor Information

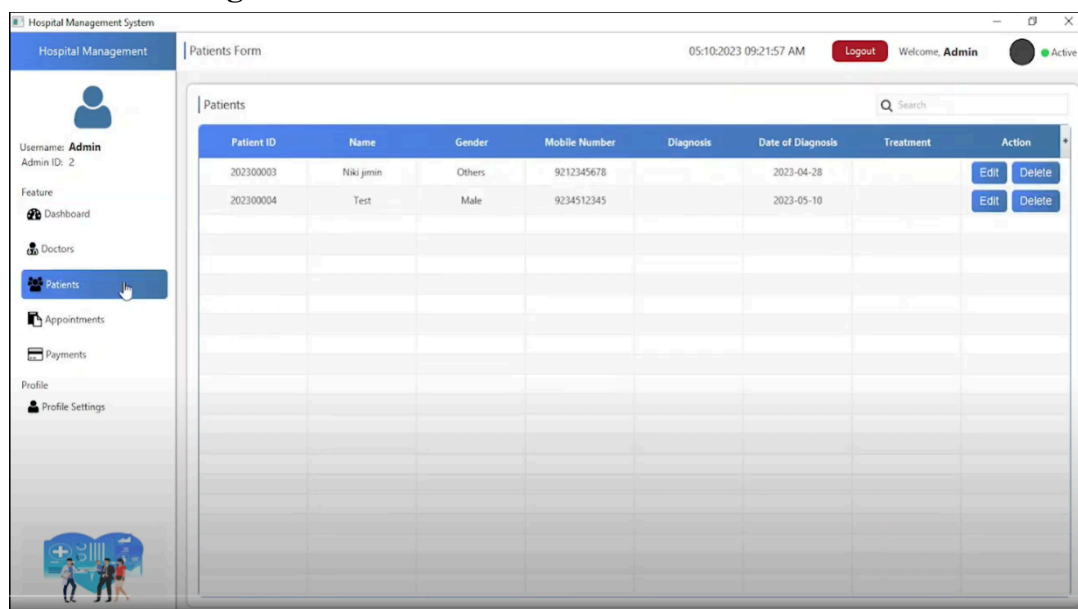
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Document theme and color scheme	#fff
Form - Background color	#fff
Title - Font Size	15px
Title - Font Color	#000
Title - Font Style	System
Title - Alignment	Left

	Prepared by (Student) Project Group No: 04	Approved by (Faculty) LE THANH NHAN
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Design Plan: Medical Center	Document Name: Screen shots	SWD/Form No.07/SS/Ver1.0
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Background color of Controls on the form	#FFF
Control Caption - Font size	14px
Control Caption - Font Color	#000
Control Caption - Font Style	System
Control caption and controls - Alignment	Left
Command button - Alignment	Center

IV. Patient Manager



Description : Patients List

From : Dashboard

To : Edit/Delete Patient Information

Properties	Value
Document theme and color scheme	#fff
Form - Background color	#fff
Title - Font Size	15px

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Design Plan: Medical Center	Document Name: Screen shots	SWD/Form No.07/SS/Ver1.0
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Title - Font Color	#000
Title - Font Style	System
Title - Alignment	Left
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Control Caption - Font size	14px
Control Caption - Font Color	#000
Control Caption - Font Style	System
Control caption and controls - Alignment	Left
Command button - Alignment	Center

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V. Edit Patient Information

Edit Patient

Patient ID:

Status:

Choose...

Name:

Gender:

Choose...

Contact Number:

Address:

Update

Description: Edit Patient Information
From : Dashboard
To : Patients List

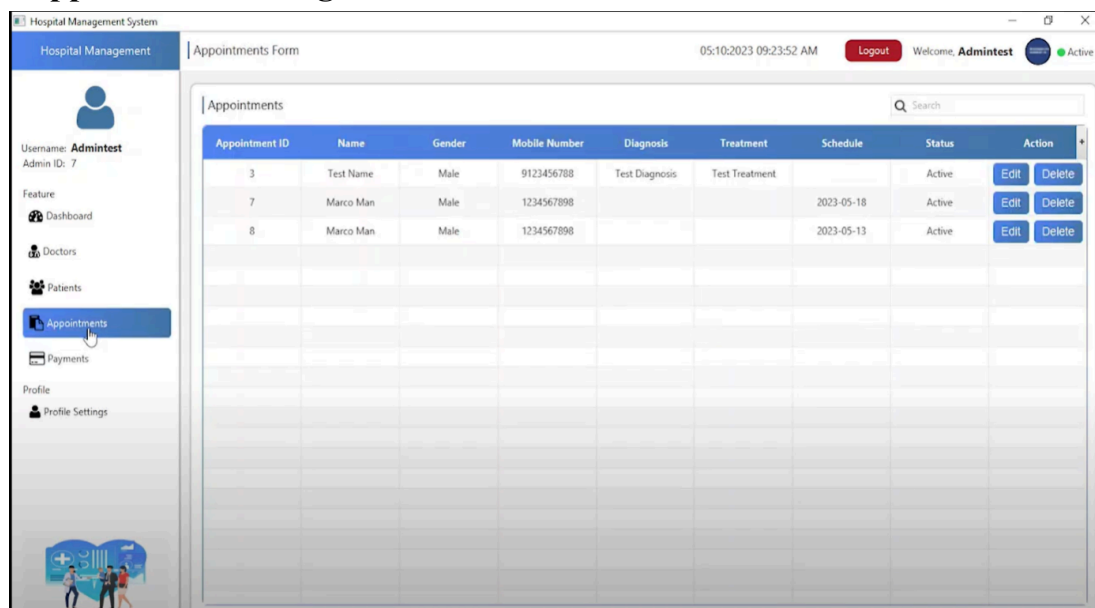
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Title - Font Color	#FFF
Title - Font Style	System
Title - Alignment	Left
Background color of Controls on the form	#FFF
Control Caption - Font size	14px
Control Caption - Font Color	#000

	Prepared by (Student) Project Group No: 04	Approved by (Faculty) LE THANH NHAN
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Design Plan: Medical Center	Document Name: Screen shots	SWD/Form No.07/SS/Ver1.0
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Control Caption - Font Style	System
Control caption and controls - Alignment	Left
Command button - Alignment	Center

VI. Appointment Manager



Description : Appointment List

From : Dashboard

To : Edit/Delete Appointment Information

Properties	Value
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Form - Background color	#000
Title - Font Size	15px
Title - Font Color	#FFF
Title - Font Style	System
Title - Alignment	Left
Background color of Controls on the form	#FFF

	Prepared by (Student) Project Group No: 04	Approved by (Faculty) LE THANH NHAN
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Design Plan: Medical Center	Document Name: Screen shots	SWD/Form No.07/SS/Ver1.0
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Control Caption - Font size	14px
Control Caption - Font Color	#000
Control Caption - Font Style	System
Control caption and controls - Alignment	Left
Command button - Alignment	Center

VII. Edit Profile

Description : Profile

From : Dashboard

To : Edit Profile

Properties	Value
Document theme and color scheme	#fff
Form - Background color	#fff

	Prepared by (Student) Project Group No: 04	Approved by (Faculty) LE THANH NHAN
Signature		
Date		

Design Plan: Medical Center	Document Name: Screen shots	SWD/Form No.07/SS/Ver1.0
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Title - Font Size	15px
Title - Font Color	#000
Title - Font Style	System
Title - Alignment	Left
Background color of Controls on the form	#FFF
Control Caption - Font size	14px
Control Caption - Font Color	#000
Control Caption - Font Style	System
Control caption and controls - Alignment	Left
Command button - Alignment	Center

	Prepared by (Student)	Approved by (Faculty)
	Project Group No: 04	LE THANH NHAN
Signature		
Date		

Design Plan: Medical Center	Document Name: Testing document	SWD/Form No.08/TD/Ver1.0
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Testing document

Sr.No	Features Tested	Remarks
1	Test case	Pass
2	Test plan	Pass
3	Test scenario	Pass
4	Test report	Pass
5	Requirements Specification	Pass
6	Functional Specification	Pass
7	Use-Case Reports	Pass
8	Project Plan	Pass
9	Design Specifications	Pass
10	Prototype	Pass
11	User's Manuals	Pass
12	Business Functions and Rules	Pass
13	Project or Business Risk Assessment	Pass
14	Responsibilities	Pass
15	Approvals	Pass

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Design Plan: Medical Center	Document Name: Final checklist	SWD/Form No.09/FC/Ver1.0
Effective Date: 13/04/2024	Version 1.0	Page No: 35 of 42

Final checklist

Sr.No	Aspected Tested	Suggestion/ Remarks
1	Can admin add, see, edit, delete doctor?	
2	Can admin add, see, edit, delete patient?	
3	Can admin add, see Appointment?	
4	Is the application user-friendly?	
5	Are all the forms validated?	
6	Does the management page take too long to be loaded fully?	
7	Is the JavaScript code working as expected in all click events?	

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Signature		
Date		

Design Plan: Medical Center	Document Name: Task Sheet	SWD/Form No.10/TS/Ver1.0
Effective Date: 13/04/2024	Version 1.0	Page No: 36 of 42

No	Member	Contents		Table Name	Activity Plan	Date of Preparation of Activity Plan		
					Planned Start Date	Actual Start Date	Actual Days	Status
1	Ngo Thai Vinh		Doctor Login	doctor appointment	16/04/2024	16/04/2024	5	ok
2			Doctor Register		22/04/2024	22/04/2024	5	ok
3			Patient Management		28/04/2024	27/04/2024	5	ok
4			Appointment Management		04/05/2024	04/05/2024	5	ok
1	Nguyen Minh Hoang		Admin Login	patient admin payment	16/04/2024	16/04/2024	5	ok
2			Admin Register		21/04/2024	21/04/2024	5	ok
3			Doctor Managerment		27/04/2024	28/04/2024	5	ok
4			Bill managagement		05/05/2024	05/04/2024	5	ok

	Prepared by (Student)	Approved by (Faculty)
	Project Group No: 04	LE THANH NHAN
Signature		
Date		