

# HEALTHCARE MANAGEMENT SYSTEM

## CARDIAC CLINIC | MICROSOFT ACCESS



## OBJECTIVE & PURPOSE

### OBJECTIVE

Create a database for a Cardiac Clinic to help them set up a Healthcare Management System using Microsoft Access, which includes various tables and forms to manage patient data, appointments, diagnostics, and medical records efficiently.

### PURPOSE

The database aims to manage and streamline the Cardiac Clinic's operations, including tracking patient information, scheduling appointments, storing diagnostic imaging results, maintaining medical records, and managing care pathways.



## ORGANIZING THE INFORMATION REQUIRED

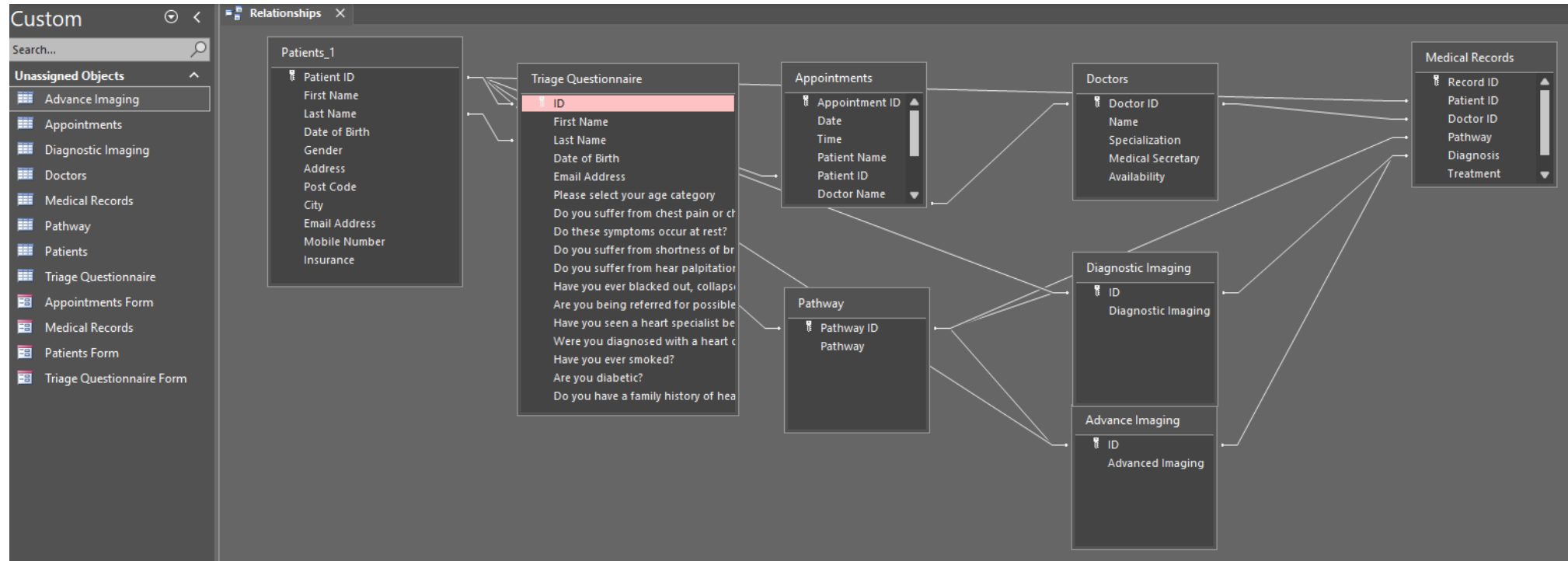
Gather all necessary data for the clinic's functions. This includes patient demographics, appointment details, diagnostic imaging records, doctor information, medical records, care pathways, and triage assessments.

Tables include:

- **Patients:** Stores patient demographic information.
- **Appointments:** Tracks appointment dates and times.
- **Diagnostic Imaging:** Contains results of imaging tests.
- **Advanced Imaging:** Details advanced diagnostic procedures.
- **Doctors:** Lists information about the doctors.
- **Medical Records:** Holds comprehensive patient medical histories.
- **Pathway:** Tracks care pathways for treatment plans.
- **Triage Questionnaire:** Contains patient triage assessments.

## SETTING UP TABLE RELATIONSHIPS

Establish relationships between tables to model real-world connections and ensure data integrity.



# FORMS OVERVIEW

Forms facilitate data entry and viewing.

**Triage Questionnaire Form:** Records patient triage assessments. The Triage Questionnaire form records patient assessments upon arrival, helping prioritize care based on the severity of their conditions.

Triage Questionnaire Form X

Triage Questionnaire

ID	4
First Name	John
Last Name	Doe
Date of Birth	01/01/1901
Email Address	jdoe@jmail.com
Please select your age category	37
Do you suffer from chest pain or chest tightness?	<input checked="" type="checkbox"/>
Do these symptoms occur at rest?	<input type="checkbox"/>
Do you suffer from shortness of breath?	<input type="checkbox"/>
Do you suffer from hear palpitations or dizzy spells?	<input type="checkbox"/>
Have you ever blacked out, collapsed or lost consciousness?	<input type="checkbox"/>
Are you being referred for possible high blood pressure?	<input type="checkbox"/>
Have you seen a heart specialist before?	<input type="checkbox"/>
Were you diagnosed with a heart condition?	<input type="checkbox"/>
Have you ever smoked?	<input type="checkbox"/>
Are you diabetic?	<input type="checkbox"/>
Do you have a family history of heart disease?	<input type="checkbox"/>

# FORMS OVERVIEW

Forms facilitate data entry and viewing.

**Patients Registration Form:** Captures new patient details.

Patients Form

New Patient

Patients

Patient ID

10

First Name

John

Last Name

Doe

Date of Birth

01/01/1901

Gender

Male

Address

Crystal Palace

Post Code

NW8 7JA

City

London

Email Address

jdoe@gmail.com

Mobile Number

07123456789

Insurance

BUPA

Submit

# FORMS OVERVIEW

Forms facilitate data entry and viewing.

**Appointments Form:** Schedules and manages patient appointments. The Appointments form allows users to schedule and manage appointments. It captures details like PatientID, DoctorID, Date, and Time, facilitating efficient appointment management.

Appointments Form

New Appointment

Appointments

Appointment ID

7

Date

17/06/2024

Time

09:00:00

Last Name

Doe

Doctor Name

Purpose

Chest pain

Triage Questionnaire

☒

Status

Triage Not Completed

Save

# FORMS OVERVIEW

Forms facilitate data entry and viewing.

**Medical Records Form:** Inputs and accesses patient medical histories. The Medical Records form is used to enter and view comprehensive patient medical histories, including diagnoses, treatments, and medications.

Medical Records

Medical Records

Record ID

2

Patient Name

Doe

Doctor Name

Doctor ID

Pathway

Chest Pain

Diagnosis

Treatment

Notes

Add Record



# CONCLUSION

## SUMMARY:

An organized database system is crucial for the efficient functioning of a Cardiac Clinic. By using a comprehensive Healthcare Management System developed in Microsoft Access, we can significantly enhance data management and improve patient care.

### Importance of an Organized Database System:

- **Efficient Data Management:** The database allows for the systematic storage, retrieval, and management of patient information, appointments, diagnostic results, and medical records.
- **Improved Patient Care:** Accurate and accessible patient data enables healthcare providers to make informed decisions, ensuring timely and appropriate care.
- **Streamlined Operations:** Automated scheduling and record-keeping reduce administrative burdens, allowing clinic staff to focus more on patient care.
- **Enhanced Data Integrity:** With primary keys and relationships set up correctly, the database ensures data consistency and reduces redundancy, which is vital for accurate medical records.

### Project Fulfillment:

- **Data Centralization:** All critical information is stored in one place, making it easy to access and manage.
- **User-Friendly Interfaces:** Forms like Appointments, Medical Records, Patients Registration, and Triage Questionnaire make data entry and retrieval straightforward for clinic staff.
- **Interconnected Tables:** Relationships between tables ensure that data is linked appropriately, reflecting real-world connections and enabling comprehensive patient tracking.
- **Normalization:** Applying normalization rules ensures the database is efficient and free of unnecessary duplication, further supporting accurate data management.

In conclusion, this Healthcare Management System project fulfills the objectives of efficient data management and improved patient care by creating a well-structured, reliable, and user-friendly database system. This system is integral to supporting the high standards of care provided by the Cardiac Clinic, ensuring both operational efficiency and enhanced patient outcomes.