

Database Engineering Project

# Hospital Management System

Presented by Eya Ben Ismail & Nour Yaakoub

# Overview

**01** System Purpose and Goals

**02** Main Components

**03** Core Functionality

**04** Key Operations

**05** User Interface Design

**06** System Benefits

**07** Summary

# 1-System Purpose and Goals

- Creating a user-friendly clinic management system
- Managing appointments efficiently
- Providing separate interfaces for administrators and patients
- Ensuring secure data handling
- Maintaining organized medical appointment records

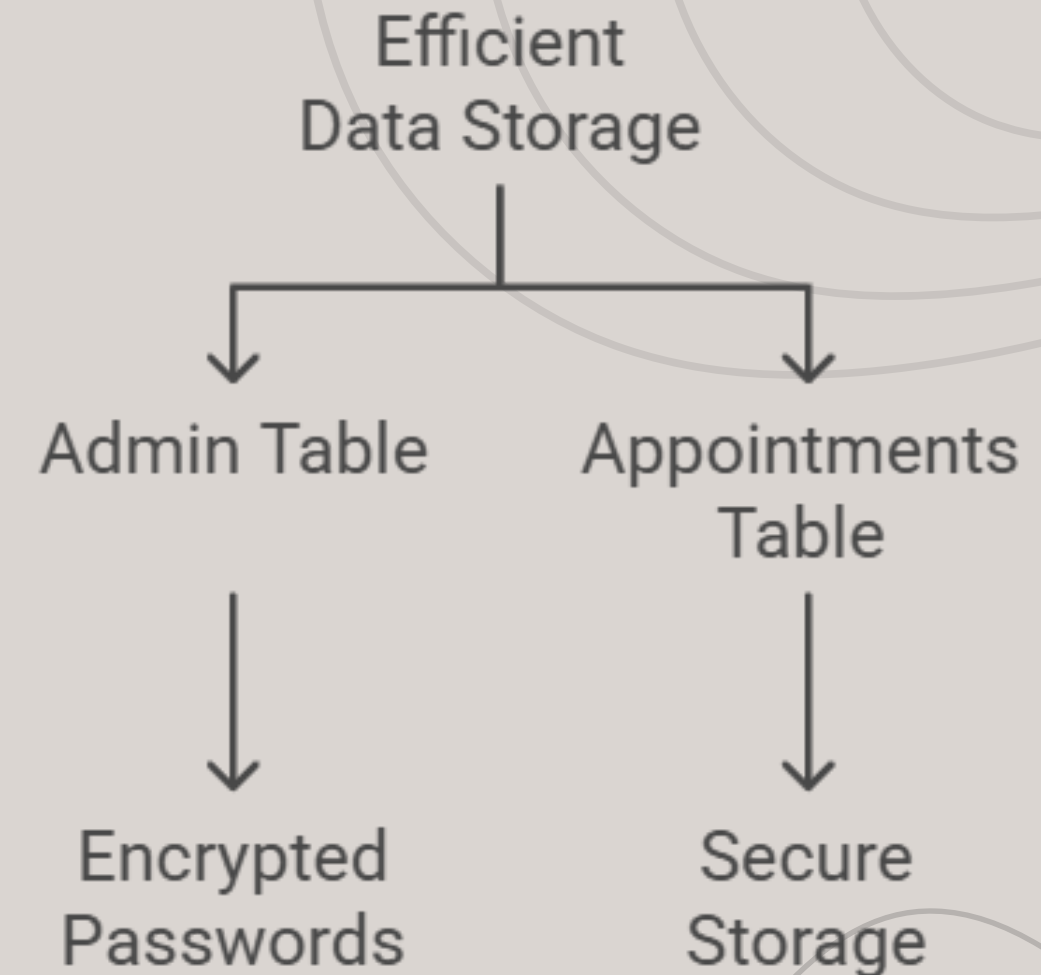
# 2-Main Components

## MySQL Database Features:

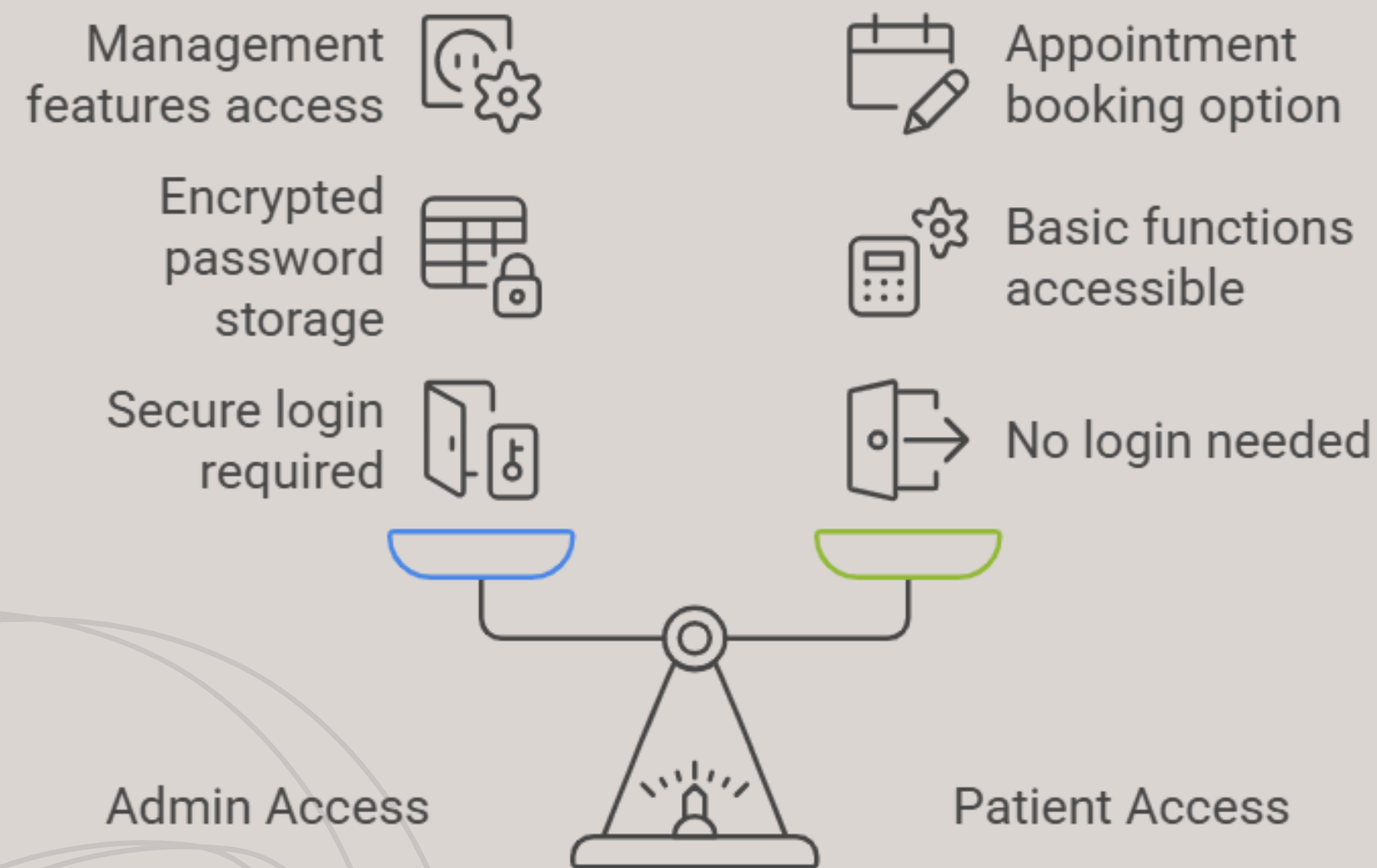
- Stores system information efficiently.
- Manages two key tables:
  - Admin Table: Staff credentials.
  - Appointments Table: Scheduling.

## Data Security:

- Encrypted passwords for admin accounts.
- Secure storage of appointment details.



# 2-Main Components



## User Authentication System:

### Admin Access:

- Secure login with username and password verification.
- Encrypted password storage.
- Access to management features.

### Patient Access:

- Direct access to patient portal.
- No login required for basic functions.
- Option to view and book appointments.

# 3- Core Functionality

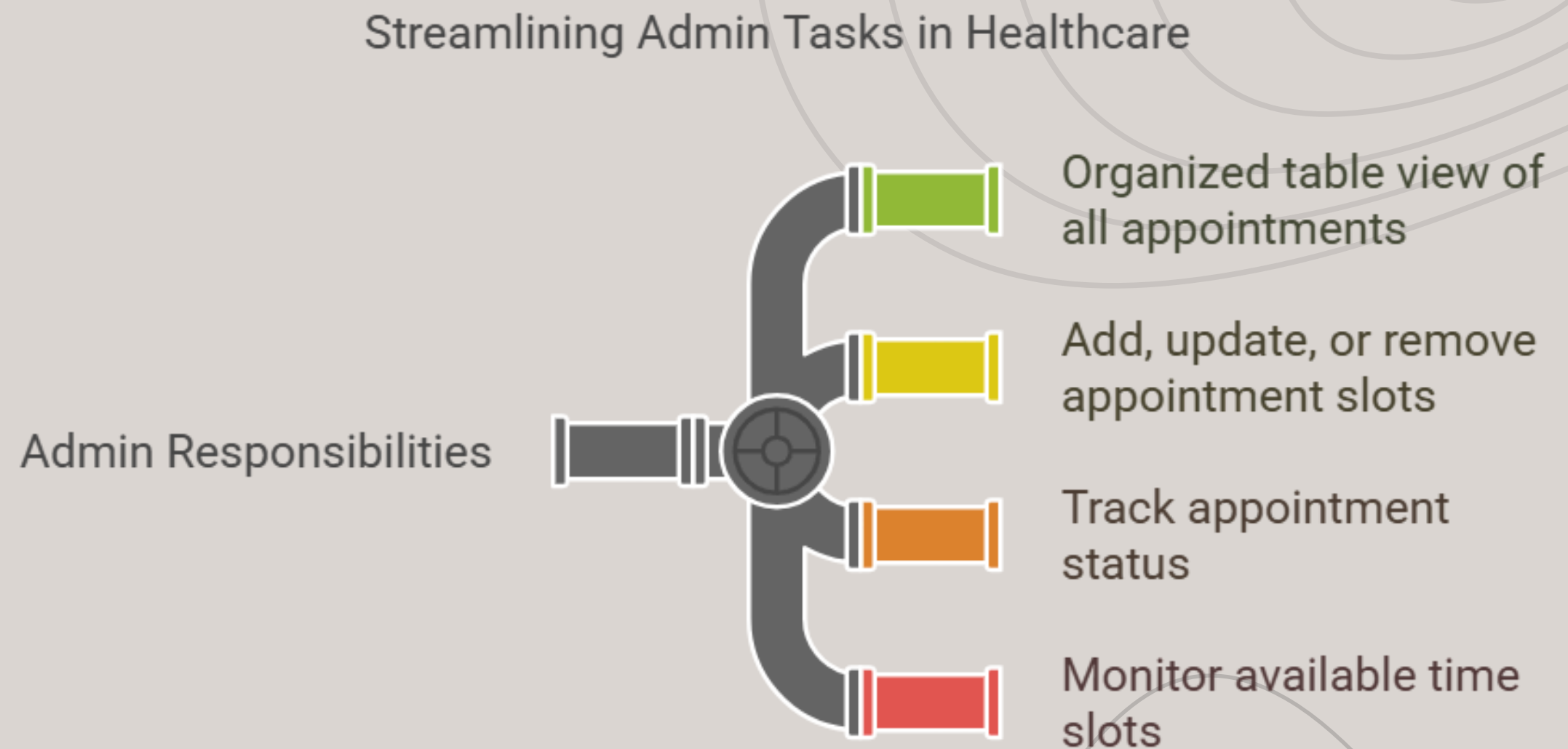
## a. Administrator Features

### *Appointment Management:*

- Organized table view of all appointments.
- Add, update, or remove appointment slots.
- Track appointment status.

### *System Control:*

- Monitor available time slots.
- Manage doctor schedules.
- Overview of booking status.

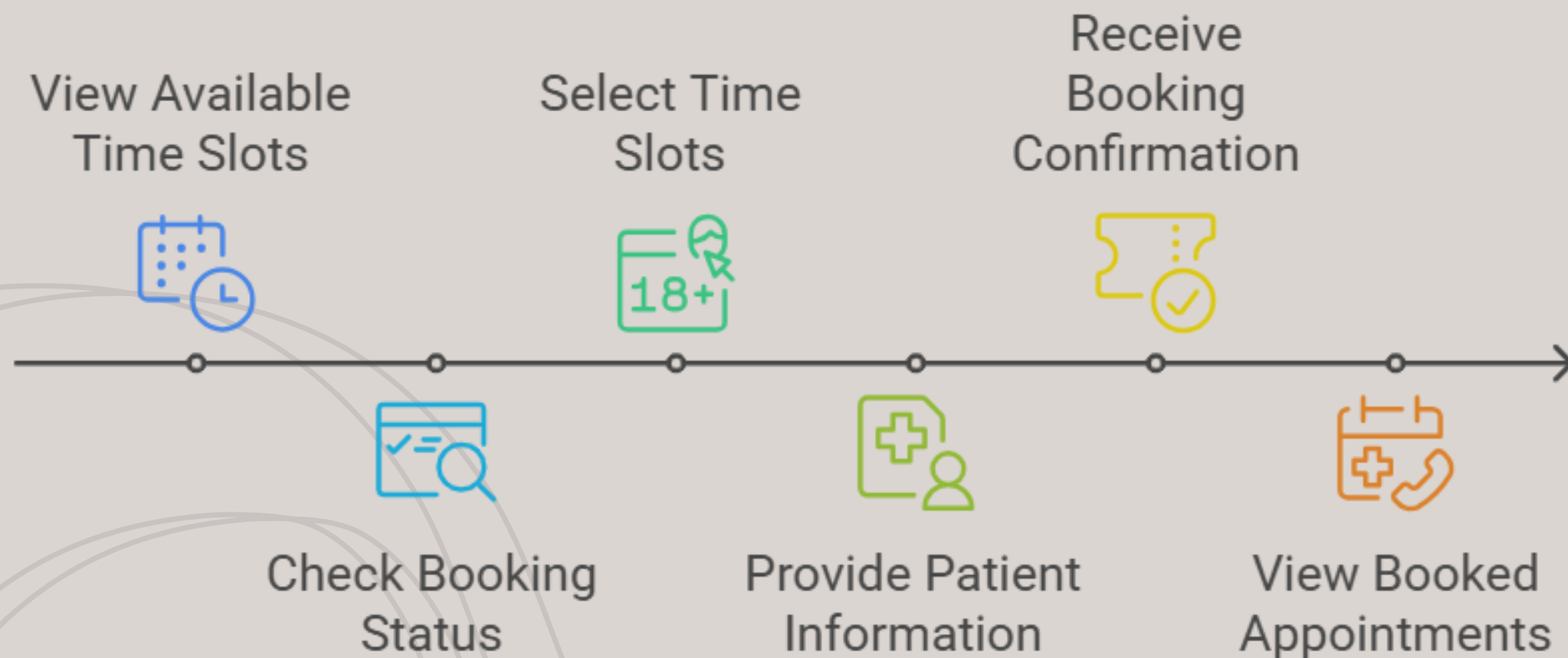




# 3- Core Functionality

## b. Patient Features

### Patient Appointment Management Process



### *Appointment Viewing:*

- View available time slots and doctor availability.
- Check appointment times and booking status.

### *Appointment Booking:*

- Select time slots and provide patient information.
- Receive booking confirmation and view booked appointments.

# 4– Key Operations

## *Create:*

- Add new appointments.
- Set up available time slots.
- Create admin accounts.

## *Read:*

- View appointment lists.
- Check availability.
- Access schedule details.

## *Update:*

- Modify appointment details.
- Change appointment status.
- Update schedule information.

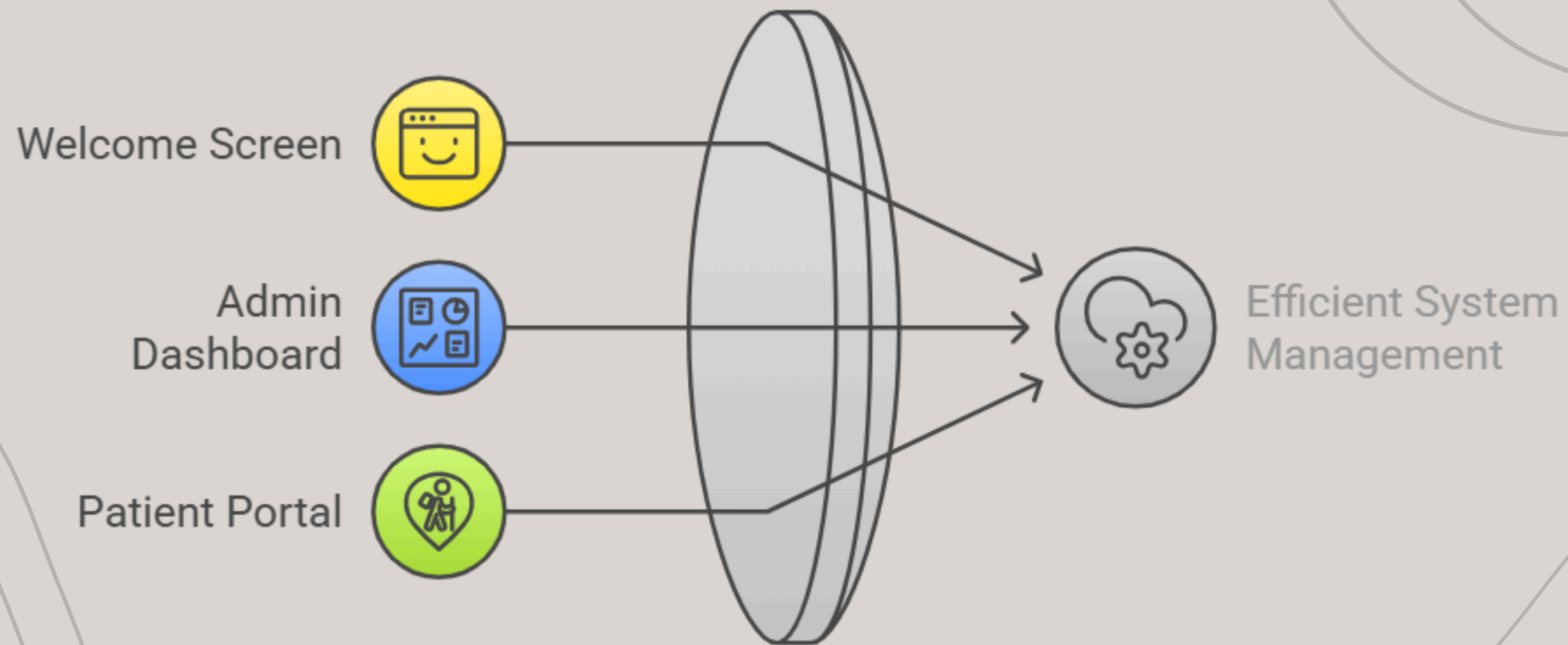
## *Delete:*

- Remove appointments.
- Cancel bookings.
- Clear old records.



# 5- User Interface Design

Streamlined User Experience



# 6– System Benefits

## **For Administrators:**

- Efficient management of appointments.
- Clear schedule overview.
- Easy updates and modifications.
- Secure access to all functions.
- Organized and reliable data handling.

## **For Patients:**

- Simple and hassle-free booking.
- Clear visibility of available slots.
- User-friendly interface.
- Instant booking confirmation.
- No login required for basic functions.

# 9– Conclusion

- Comprehensive appointment management solution.
- Intuitive and user-friendly interface.
- Secure and reliable data handling.
- Efficient and streamlined booking system.
- Flexible, scalable, and future-ready design.

<https://github.com/nweera/HospitalManagementSystem-MySQL>



# Thank You

Presented by Eya Ben Ismail & Nour Yaakoub