

Database Engineering Project

Clinic 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

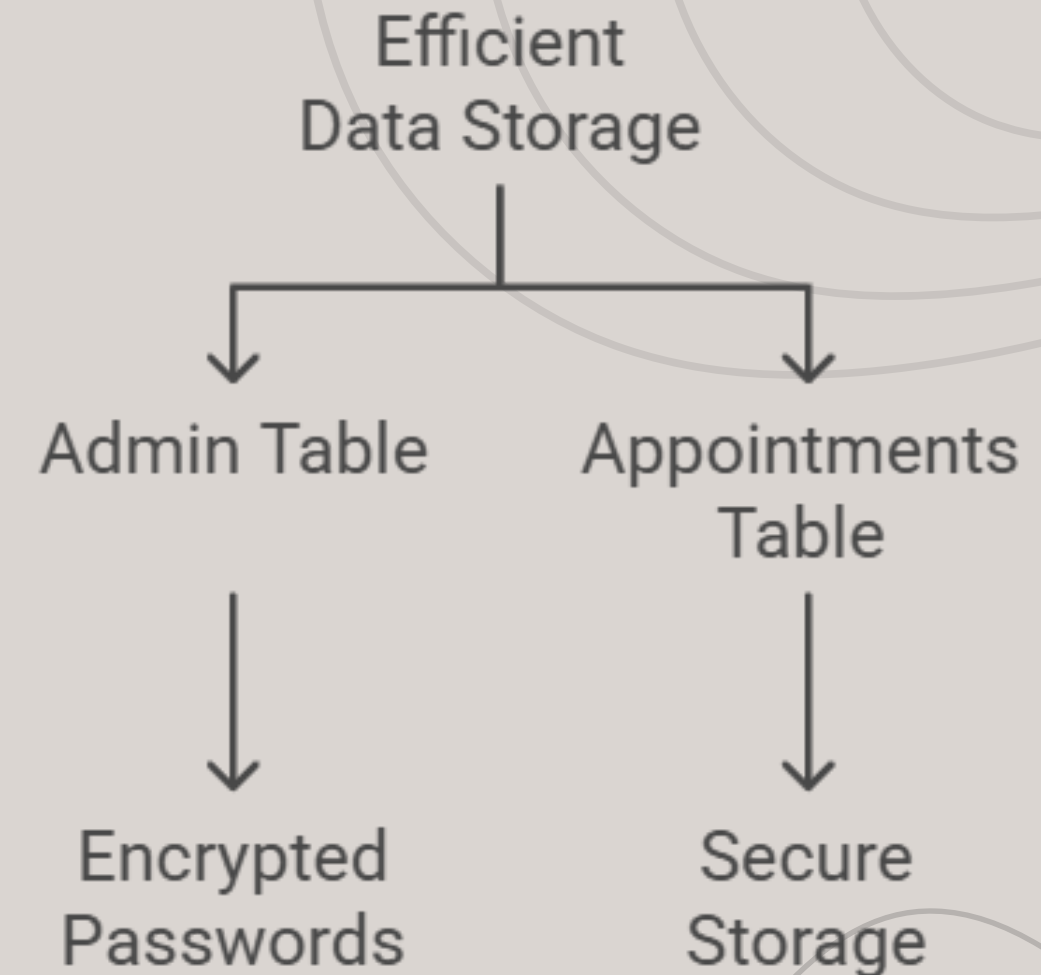
2-Main Components

MySQL Database Features:

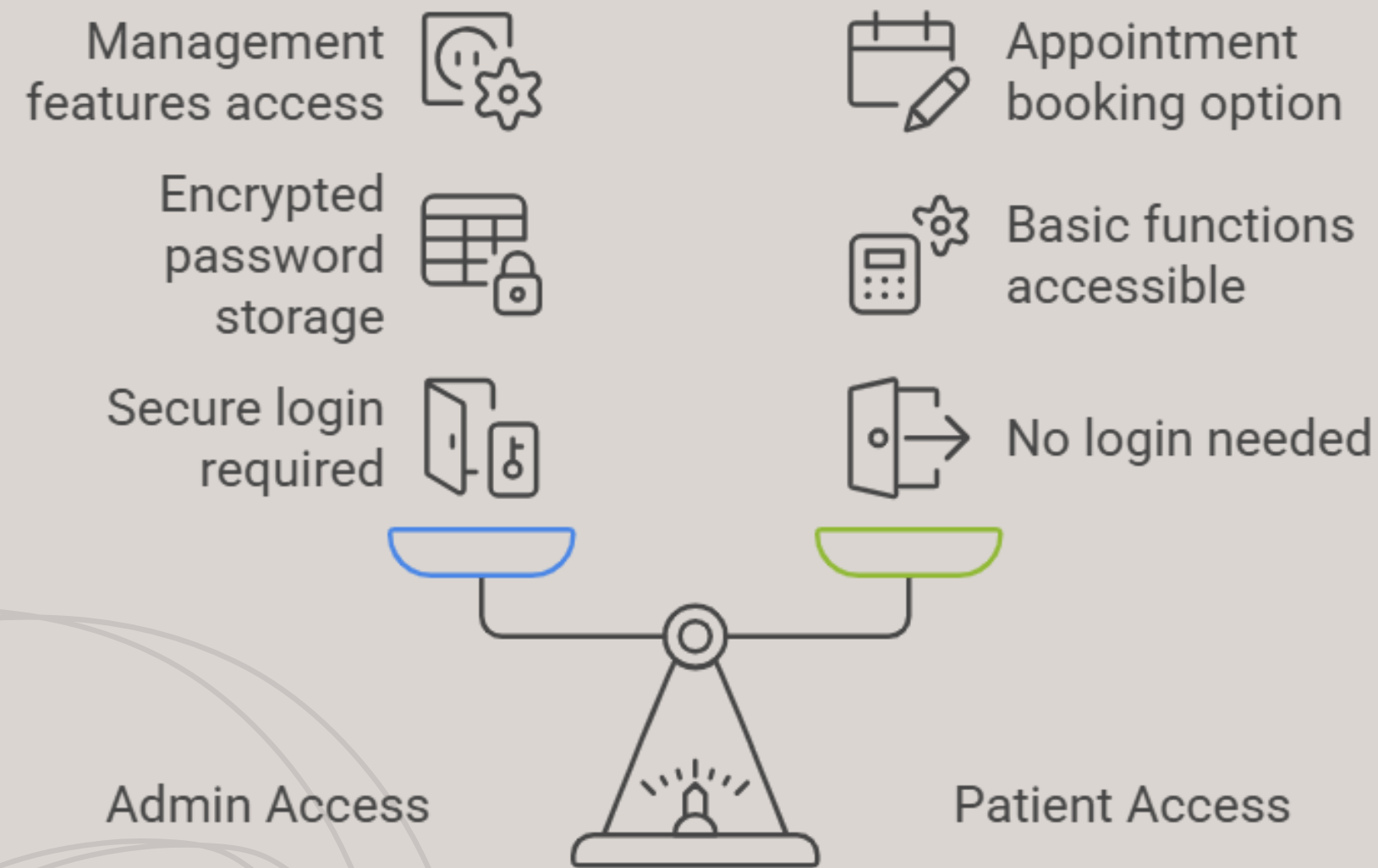
- Stores system information efficiently.
- Manages two key tables:
 - Admin Table: Staff credentials.
 - Appointments Table: Scheduling.

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

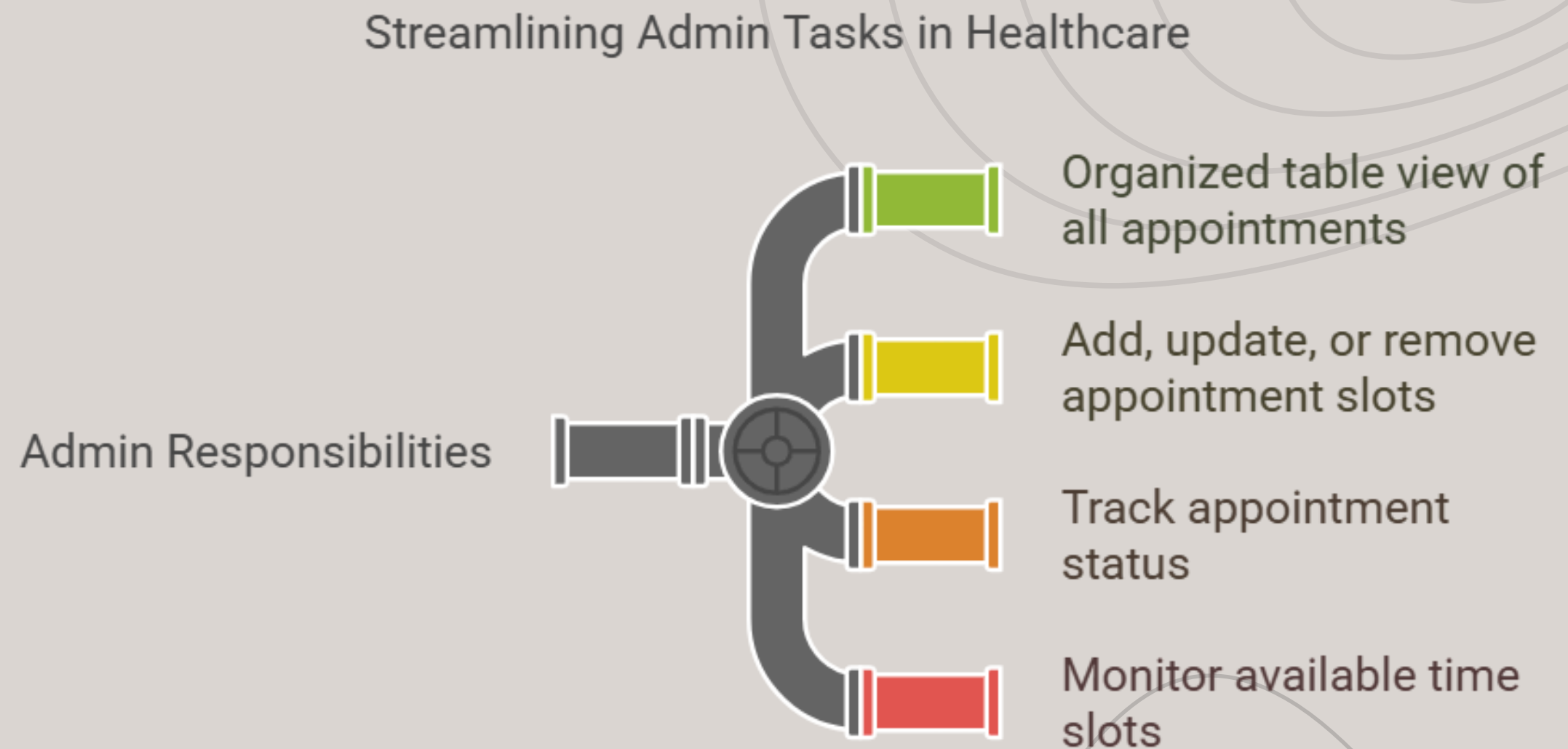
a. Administrator Features

Appointment Management:

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

System Control:

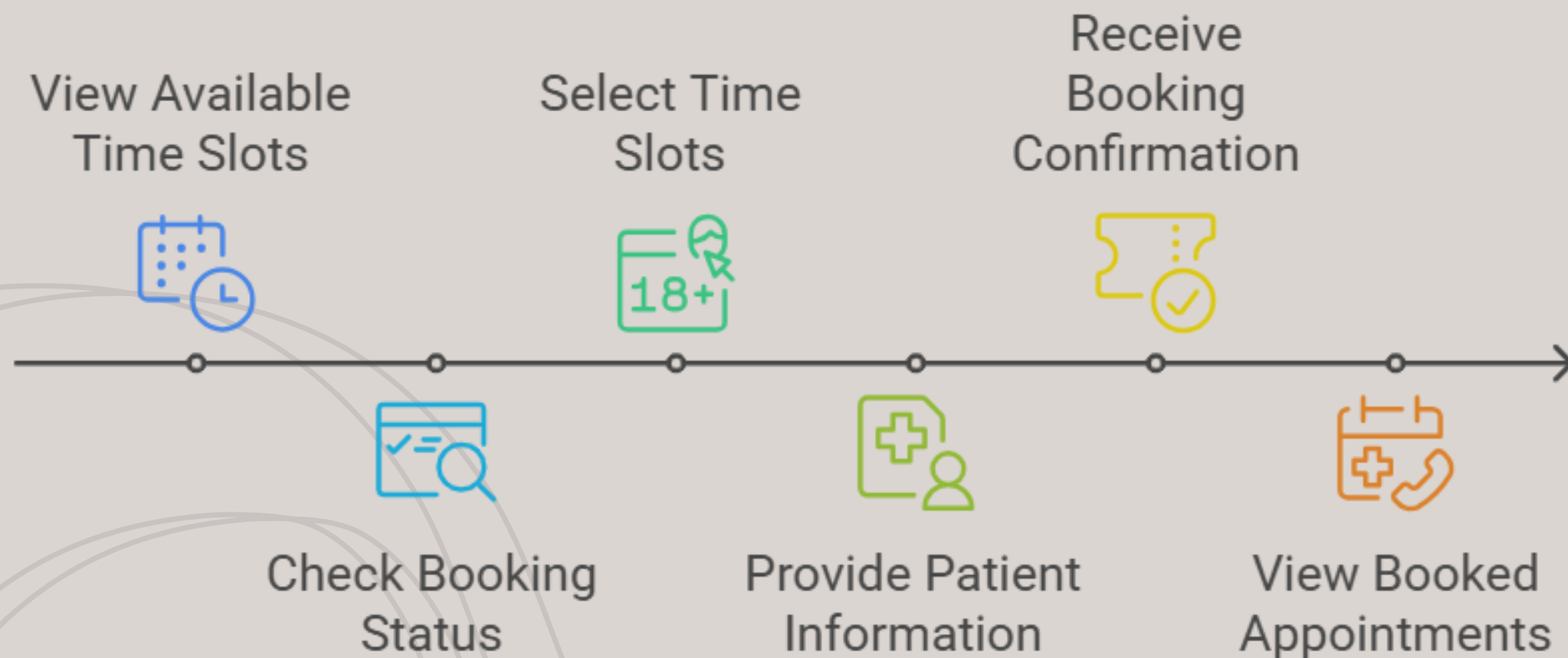
- Monitor available time slots.
- Manage doctor schedules.
- Overview of booking status.



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.

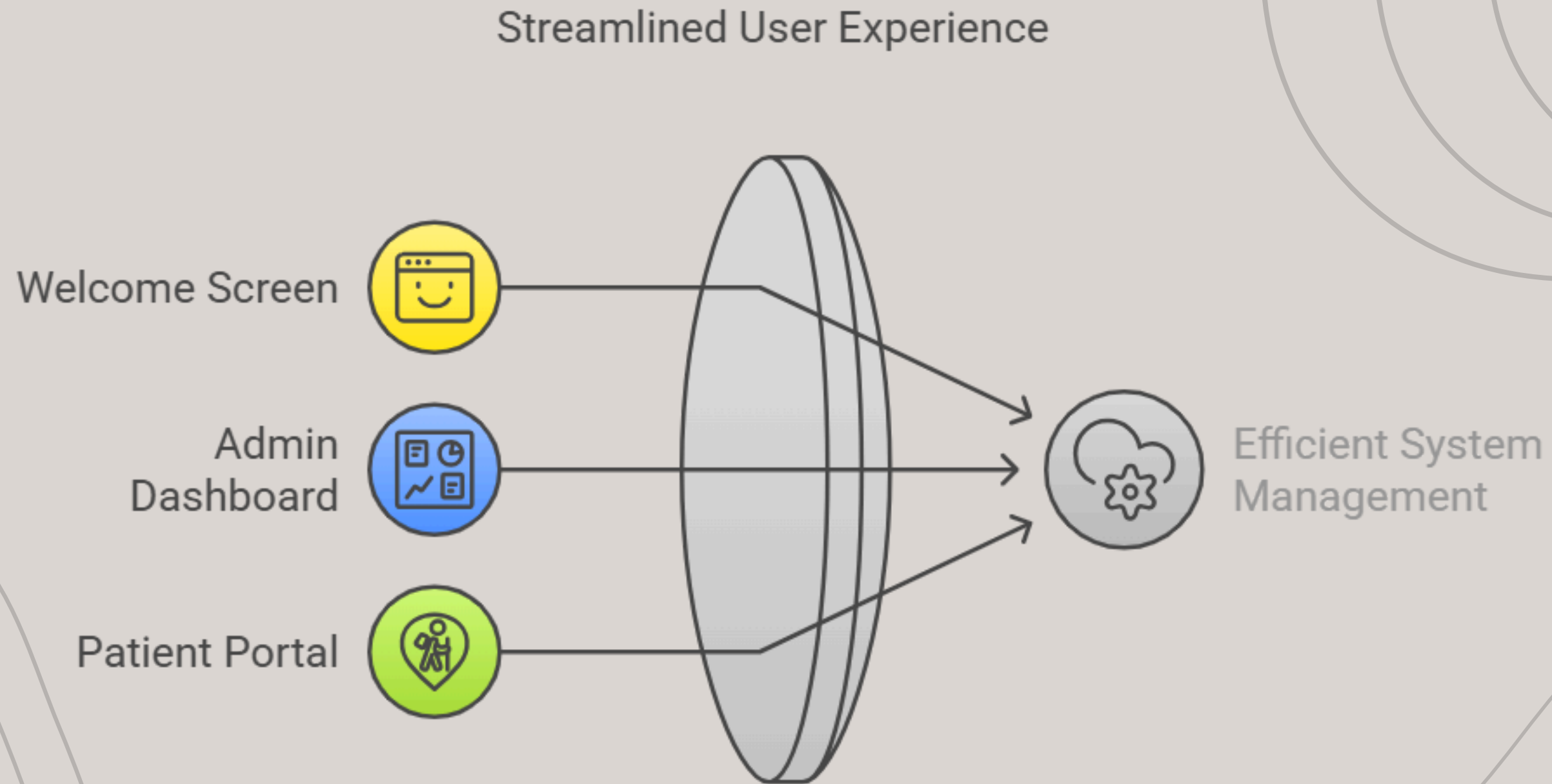
Update:

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

Delete:

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

5- User Interface Design



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