

# **Erqah Hospital Appointments Booking Website**

Under the supervision of Dr. Mudather

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Team members:

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**This is a Project Report !**

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Subject : Internet Programming

Level: 5

Class: Programming major 171

At the end I will provide images of the DB and a glance of the website.



## **Abstract**

This project report details the development of the "Erqah Hospital Appointments Booking Website," a web-based application designed to streamline the process of scheduling medical appointments. The primary objective of the website is to offer a user-friendly platform where patients can effortlessly book appointments with various doctors across different clinics and view these appointments in their profile accounts. Additionally, the site provides options for users to contact hospital support for assistance.

The construction of the website involved a strategic utilization of several web technologies. HTML was employed to establish the foundational structure of the website, ensuring an organized and accessible layout. CSS was used to enhance the visual appeal and design, creating an attractive and intuitive user interface. JavaScript played a pivotal role in adding dynamic functionality and client-side validation, thereby improving user experience and interaction. PHP was integrated to facilitate server-side scripting, enabling effective communication with the server and database, essential for handling appointment bookings and user account management.

A significant challenge encountered during the development process was the implementation of a system capable of managing diverse appointments for different clinics and doctors, and displaying them accurately in the user's profile. This required careful planning and intricate coding to ensure seamless functionality. Additionally, the website features a compelling home page, designed to engage visitors with its aesthetic appeal and ease of navigation.

Overall, this project not only achieved its goal of simplifying the appointment booking process for patients but also provided valuable insights into the complexities of web development involving multiple technologies and user-centered design.



## **Introduction**

This project report presents the development of the "Erqah Hospital Appointments Booking Website," a venture initiated to address a pressing need at the nascent Erqah Hospital and to demonstrate advanced web development skills in an academic setting. The inception of this project was driven by the realization that Erqah Hospital, being in its construction phase, lacked an efficient system for booking appointments. This gap presented an opportunity to develop a solution that would not only fulfill a functional requirement for the hospital but also serve as a testament to our web development capabilities.

## **Background and Rationale**

The decision to embark on this project was twofold: firstly, to provide a practical solution to an existing problem at Erqah Hospital, and secondly, to challenge ourselves in a real-world application of our learning. The absence of an appointment system in the hospital's initial stages highlighted a need for a digital platform that could manage patient appointments effectively. Our ambition was to create a website that could seamlessly integrate into the hospital's operations upon completion of its construction, thereby streamlining the process of scheduling and managing appointments.

## **Project Objectives**

The primary objective of this project was to develop a website that, despite its simplicity and modest size, would operate efficiently and meet the core needs of appointment booking and management. The focus was on creating a user-friendly interface that would facilitate easy navigation and interaction for users, ensuring that the process of booking appointments was straightforward and accessible. The project aimed to deliver a functional, aesthetically pleasing, and reliable website that could efficiently handle appointment scheduling for various clinics and doctors within Erqah Hospital.



## **Technologies Used**

The "Erqah Hospital Appointments Booking Website" was developed using a combination of four key web technologies: HTML, CSS, JavaScript, and PHP

### **HTML (HyperText Markup Language)**

HTML served as the backbone of the website, providing the essential structure and framework. It was used to create the basic layout of the web pages, including the arrangement of text, forms, buttons, and other elements essential for user interaction.

### **CSS (Cascading Style Sheets)**

CSS was employed to enhance the visual appeal and design of the website. It allowed for the customization of the website's look and feel, including the color scheme, fonts, and layout styles. CSS was instrumental in ensuring that the website was not only functional but also aesthetically pleasing, contributing to a positive user experience. The use of CSS also ensured that the website was responsive, adapting its layout to different screen sizes and devices.

### **JavaScript**

JavaScript played a crucial role in adding interactivity and dynamic features to the website. It was used for client-side validation of form inputs, ensuring that data entered by users was correct and complete before being submitted.

### **PHP (Hypertext Preprocessor)**

PHP was used for server-side scripting. It handled the communication between the website and the server, particularly in managing user data and processing appointment bookings. PHP was critical in linking the website to the database, enabling the storage and retrieval of appointment details, user information, and facilitating real-time updates to the user's profile page with their appointment details.



# **Design and Implementation**

## **Design Approach**

The design of the "Erqah Hospital Appointments Booking Website" emphasized user-friendliness and visual appeal. A clear layout and intuitive navigation were prioritized, with a professional color scheme and typography suitable for a healthcare setting.

## **Responsive Layout**

Responsiveness was a crucial aspect, ensuring the website's compatibility with various devices. CSS was instrumental in adapting the layout for different screen sizes, maintaining functionality and aesthetics.

## **Implementation and Challenges**

A major implementation challenge was the complex system required for booking and displaying various appointments. JavaScript was used for front-end functionalities like form validation, while PHP managed server-side processes, ensuring seamless appointment bookings.

## **Team Handling ( Roles )**

Mohammed Aleshawi: Team Leader , Back-end , Front-end , DB, Documenting.

Abdulelah-Ghassan-Ibrahim: Front-end

Mobarak: Fron-end, communication.



# Functionality

## User Interaction and Experience

The "Erqah Hospital Appointments Booking Website" offers a straightforward and intuitive user interface. Patients visiting the website can easily navigate through the different sections to access the services they need. The process of booking an appointment is streamlined: users select a clinic, choose a doctor, and pick an available time slot. This simplicity in design ensures that even users with limited technical skills can navigate and use the website with ease.

## Key Features

**Appointment Booking:** The core feature of the website allows patients to book appointments with doctors across various clinics. This system is designed to handle multiple bookings efficiently, providing real-time updates and confirmations.

**User Profile Management:** Users can create and manage their profiles, where they can view their upcoming appointments and past visit histories. This feature enhances the personalized experience of the website.

**Contact Support:** An integrated contact feature enables users to reach out to hospital support or administration for assistance, further enhancing user engagement and satisfaction.

## Special Functionalities

**Real-Time Validation:** Utilizing JavaScript, the website performs real-time validation of user inputs, ensuring data accuracy and enhancing user experience.

**Responsive Design:** The website's responsive design ensures that it remains functional and visually appealing across various devices, catering to users accessing the site on mobile phones, tablets, or desktop computers.



## Conclusion

The development of the "Erqah Hospital Appointments Booking Website" represents a significant achievement in addressing the functional needs of a healthcare setting while showcasing advanced web development skills. The project successfully delivered a user-friendly, efficient, and responsive website that simplifies the process of booking medical appointments. This system not only caters to the immediate needs of Erqah Hospital but also sets a foundation for further digital integration in healthcare management.

Throughout the project, there was a substantial learning curve, particularly in managing complex functionalities such as appointment scheduling for various doctors and clinics. The challenges faced and overcome in this process underscored the importance of thorough planning, testing, and user feedback in web development.

Looking ahead, there are opportunities for further enhancements. Future iterations of the website could include additional features like automatic appointment reminders, a patient feedback system, or integration with electronic health records. The potential for scalability and increased functionality promises to add even greater value to the hospital's operations and patient experience.

## *Acknowledgments*

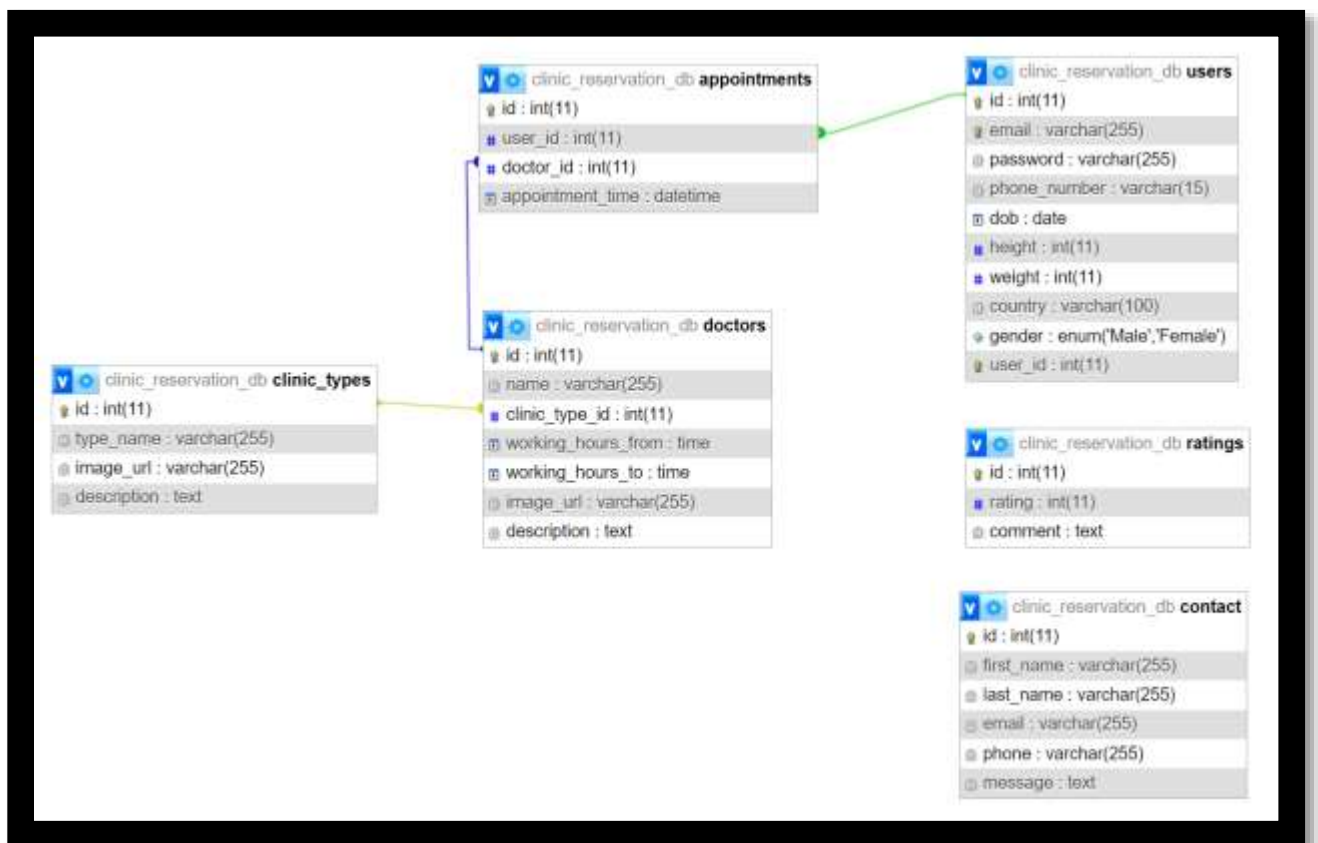
### Use of External CSS Templates

In the development of the "Erqah Hospital Appointments Booking Website," we utilized external CSS templates to enhance the design and user interface of the site. The use of these templates significantly contributed to the website's professional appearance and responsive design. We would like to extend our gratitude to [Templated] for providing these valuable resources. Their templates not only saved development time but also offered a high standard of design that we aspired to achieve in our project. This acknowledgment serves to credit their excellent work and contribution to the aesthetic aspects of our website.





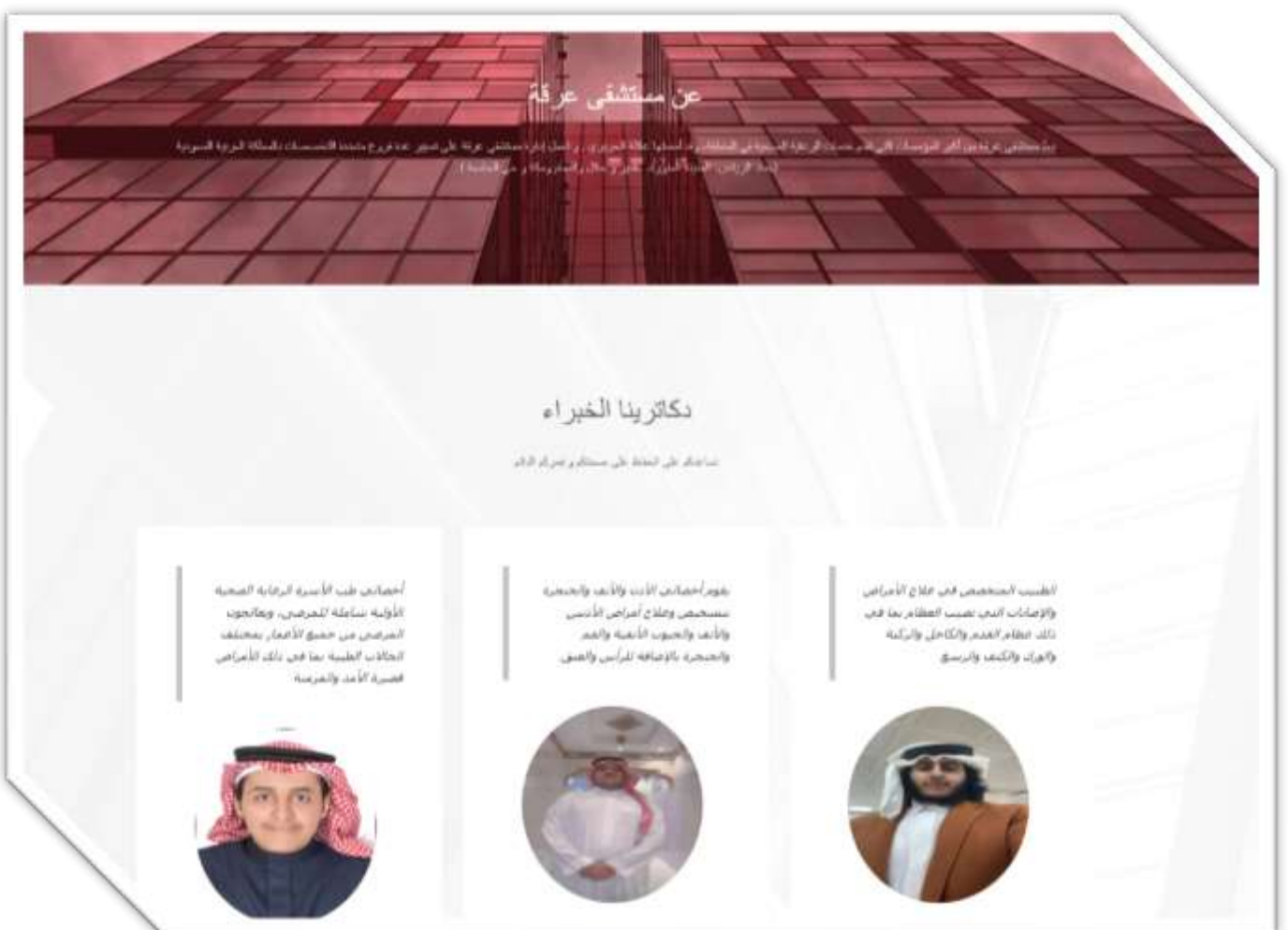
this is the tables in the database and its simple and efficient.



And this is a schema of the database.



Some images of the website:





## الحساب الشخصي

البريد: dreg@gmail.com

رقم الهاتف: 055

تاريخ الميلاد: 01-01-1420

الطول: 170 cm

الوزن: 80 kg

الدولة: Bahrain

الجنس:

موعد مع د. حيدر في 19-01-2024 00:00:00

### مراجع الرسائل الإلكترونية

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### روابط جديدة

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البيانات الشخصية الخاصة، فسنقوم بالاستعلامات ورواها الأشخاص الأقل مرمياً الذين لا ينتمون إلى  
شركت

### ملاحظات

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THE END