

Project name :

**-Shifaa-**

**Hospital Appointment Booking System**

## **Students' names:**

Name	ID
Walaa Mousa Hommadi	s445001892
Refal Omar Aloufi	s445001633
Meznah Rubaigan	s44510571
Wajn alotaibi	s445005620
Sulafah Madabighy	s445005898

# Report 1

Project idea , problem and Requirements

Name	Tasks
Walaa Mousa Hommadi	Project idea & functional Requirements
Refal Omar Aloufi	functional Requirements
Meznah Rubaigan	Project problem
Wajn alotaibi	Non-Functional Requirements
Sulafah Madabighy	functional Requirements

# The idea:

With the rapid growth of technology and the increasing need to simplify access to healthcare services, it has become essential to provide digital solutions that allow patients, doctors, and hospitals to manage medical appointments effectively. This project aims to develop a simple and practical application that enables all parties to handle booking and follow-up processes in a smooth and reliable way.

# The problem:

Many hospitals and patients face difficulties in managing medical appointments, as most still rely on traditional methods (phone calls or in-person visits). This often leads to:

- Overcrowding of patients at certain times.
- Difficulty in tracking doctors' schedules.
- Wasting patients' time in waiting.
- Weak communication between patients, doctors, and hospitals.

# **Requirement:**

## **functional Requirements**

- 1- The user should be able to log in to the system.
- 2- The user should be able to log out of the system at any time they wish.
- 3-The user should be able to delete their account at any time they wish

### **( The patient ) :**

- 3- The user should be able to create a new account in the system.
- 4- The user should be able to view their profile
- 5- The user should be able to modify their personal information
- 6- The user should be able to choose the hospital they want to book an appointment in
- 4- The user should be able to choose the appropriate medical department for their needs.
- 5- The user should be able to browse the list of available doctors and select one for the appointment.
- 6- The user should be able to browse the available appointment slots and choose one that suits them.
- 7- The user should be able to save the appointment details after user selection.
- 8- The user should have the option to book multiple appointments
- 9- The user should have the option to modify the appointment's date and time slot
- 10- The user should have the option to delete the appointment at any time they want

# **Requirement:**

## **functional Requirements**

**( The Doctor) :**

12-The user should be able to add their available appointments on to the system

13- The user should be able to view their schedule at any time

14- The user should be able to update the status of an appointment

# Non-Functional Requirements

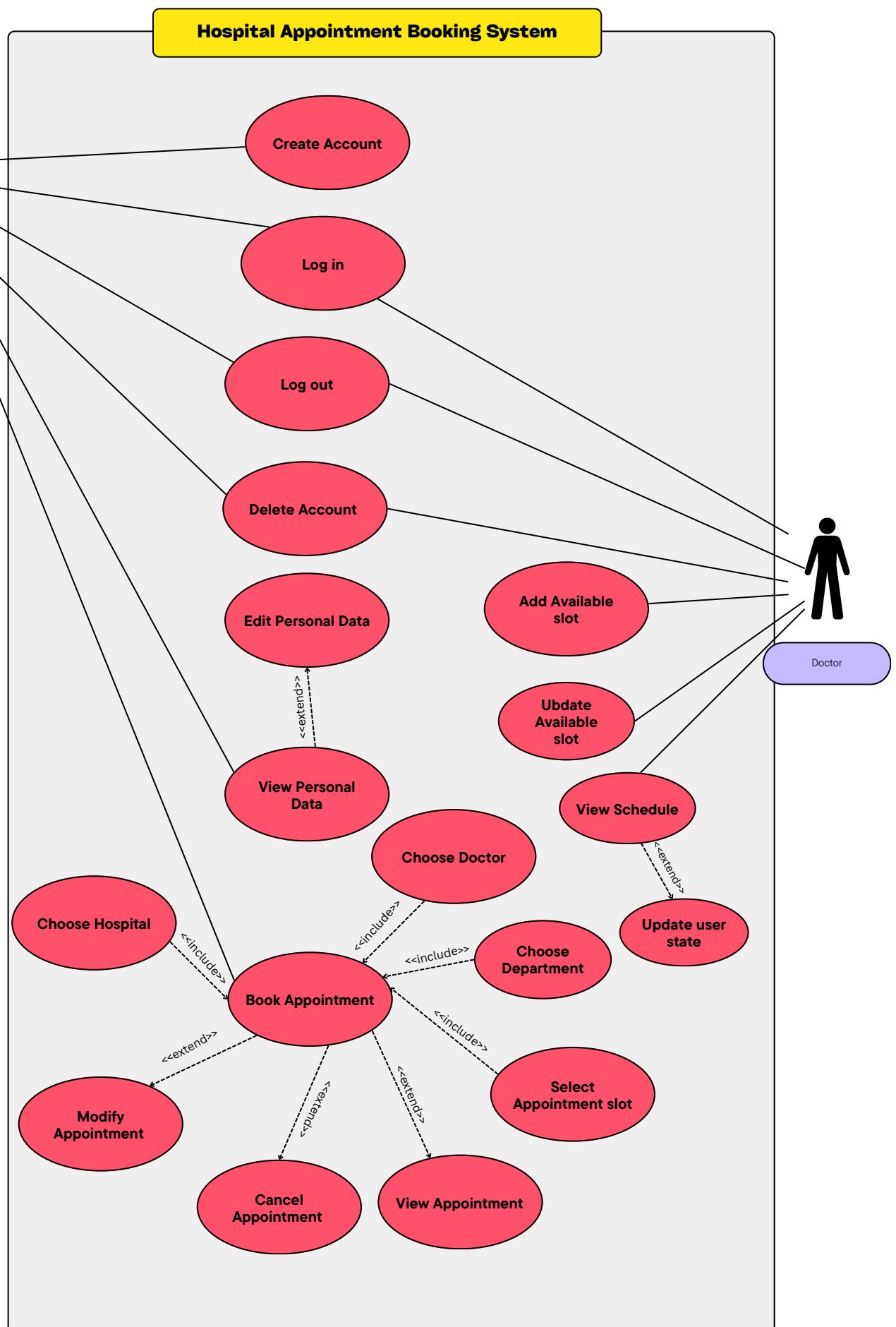
- 1- Performance: The system should display search results for doctors and available appointments within 3 seconds.
- 2- Availability: The application should be available 24/7 with minimum downtime except for scheduled maintenance.
- 3- Security: User data (such as names, passwords, and appointment details) should be stored securely with encryption.
- 4- Usability: The application interface should be simple and user-friendly so that new users can navigate it without training.
- 5- Scalability: The system should be able to handle an increasing number of users, doctors, and hospitals without performance issues.

# Report 2

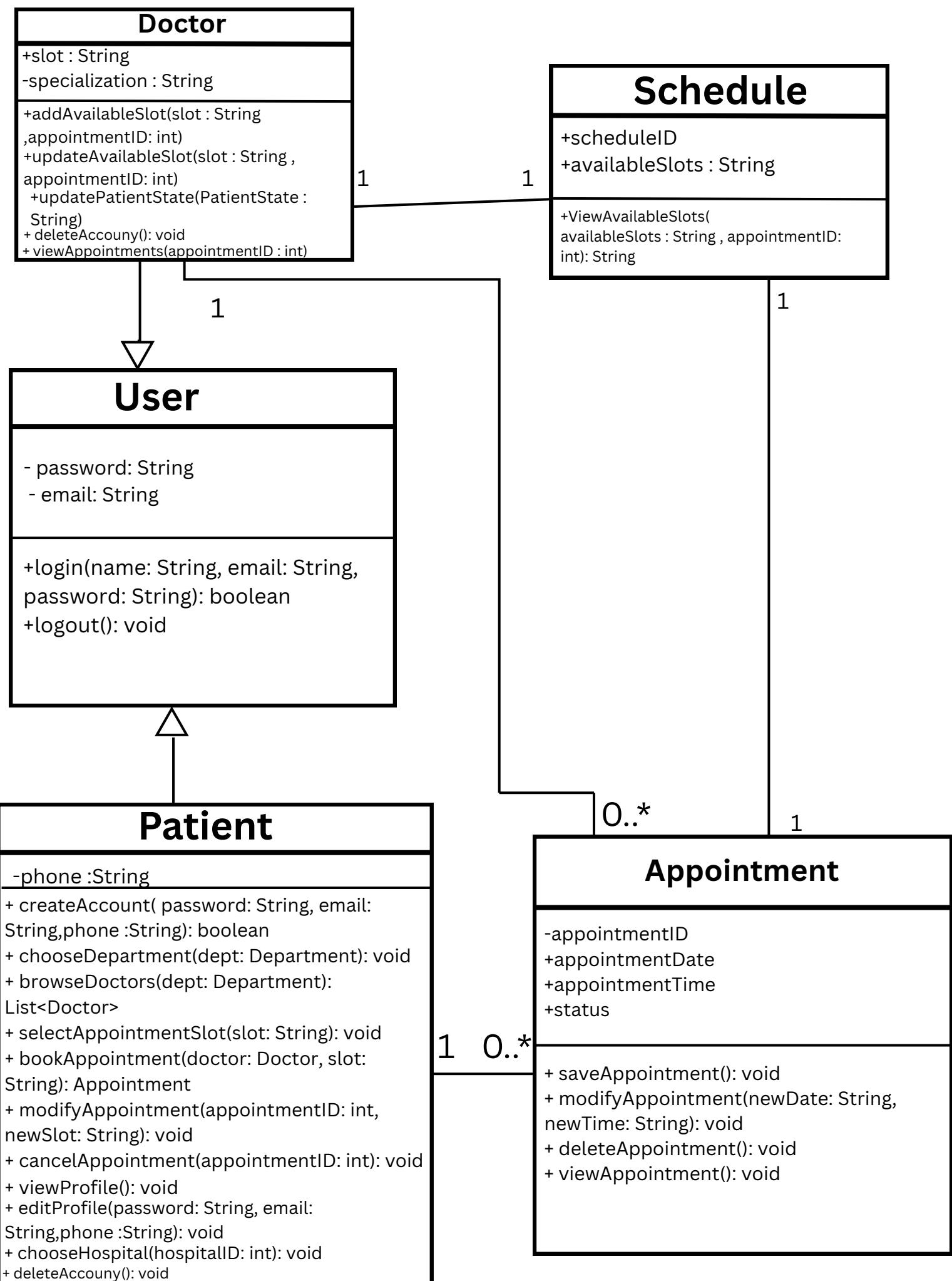
## Use case & Class diagram

Name	Tasks
Walaa Mousa Hommadi	Class diagram & Use case
Refal Omar Aloufi	Class diagram & Use case
Meznah Rubaigan	Class diagram & Use case
Wajn alotaibi	Class diagram & Use case
Sulafah Madabighy	Class diagram & Use case

# -Use case:



# Class diagram:



# Report 3

## Database

Name	Tasks
Walaa Mousa Hommadi	database design
Refal Omar Aloufi	database design
Meznah Rubaigan	database design
Wajn alotaibi	database design
Sulafah Madabighy	database design

Data from hospitals, departments, and doctors has been entered into the database, linked together, and the cases to be updated in the database have been defined. The database will only receive data from patients and the appointments they have booked.

```
3
4 • CREATE TABLE userweb (
5     userID int(11) NOT NULL,
6     username varchar(100) NOT NULL,
7     userpassword varchar(100) NOT NULL,
8     email varchar(150) NOT NULL,
9     role enum('patient','Doctor') NOT NULL,
10    created_at timestamp NOT NULL DEFAULT current_timestamp()
11 );
12
13
14 CREATE TABLE Hospital (
15     hospitalID INT AUTO_INCREMENT PRIMARY KEY,
16     hospitalName VARCHAR(150) NOT NULL,
17     hospitalType ENUM('عام','خاص') DEFAULT 'عام',
18     address VARCHAR(255),
19     phone VARCHAR(20),
20     workingHours VARCHAR(50),
21     created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP
22 );
23
24
25 • CREATE TABLE HospitalDepartment (
26     hospitalDepartmentID INT AUTO_INCREMENT PRIMARY KEY,
27     hospitalID INT NOT NULL,
28     departmentID INT NOT NULL,
29     FOREIGN KEY (hospitalID) REFERENCES Hospital(hospitalID)
30         ON DELETE CASCADE ON UPDATE CASCADE,
31     FOREIGN KEY (departmentID) REFERENCES Department(departmentID)
32         ON DELETE CASCADE ON UPDATE CASCADE
33 );
34
35
36
37 • CREATE TABLE Doctor (
38     doctorID INT AUTO_INCREMENT PRIMARY KEY,
39     userID INT NOT NULL UNIQUE,
40     hospitalDepartmentID INT,
41     specialization VARCHAR(100) NOT NULL,
42     FOREIGN KEY (userID) REFERENCES UserWeb(userID)
43         ON DELETE CASCADE ON UPDATE CASCADE,
44     FOREIGN KEY (hospitalDepartmentID) REFERENCES HospitalDepartment(hospitalDepartmentID)
45         ON DELETE SET NULL ON UPDATE CASCADE
46 );
47
```

```
7
8 • CREATE TABLE Patient (
9     patientID INT AUTO_INCREMENT PRIMARY KEY,
10    userID INT NOT NULL UNIQUE,
11    phone VARCHAR(20),
12    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
13    FOREIGN KEY (userID) REFERENCES UserWeb(userID)
14        ON DELETE CASCADE
15 );
16
```

```
69
70 • CREATE TABLE Schedule (
71     scheduleID INT AUTO_INCREMENT PRIMARY KEY,
72     doctorID INT NOT NULL,
73     availableDate DATE NOT NULL,
74     availableTime TIME NOT NULL,
75     status ENUM('متأخر', 'غير متأخر') DEFAULT 'غير متأخر',
76     created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
77     UNIQUE (doctorID, availableDate, availableTime),
78     FOREIGN KEY (doctorID) REFERENCES Doctor(doctorID)
79         ON DELETE CASCADE
80 );
81
```

```
82
83 • CREATE TABLE Appointment (
84     appointmentID INT AUTO_INCREMENT PRIMARY KEY,
85     patientID INT NOT NULL,
86     doctorID INT NOT NULL,
87     scheduleID INT NOT NULL UNIQUE,
88     status ENUM('قادر', 'حضر', 'لم يحضر') NOT NULL DEFAULT 'قادر',
89     FOREIGN KEY (patientID) REFERENCES Patient(patientID),
90     FOREIGN KEY (doctorID) REFERENCES Doctor(doctorID),
91     FOREIGN KEY (scheduleID) REFERENCES Schedule(scheduleID)
92 );
93
```

```
3
3 • INSERT INTO Hospital (hospitalName, hospitalType, address, phone, workingHours)
1   VALUES
2   ('مكة المكرمة - جبل النور', 'عام', 'مستشفى النور', '0123456789', '08:00 - 20:00'),
3   ('مكة المكرمة - شارع العطاء فيصل', 'عام', 'مستشفى العطاء فيصل', '0123456790', '08:00 - 18:00'),
4   ('مكة المكرمة - حي الشرائع', 'خاص', 'مجمع البدري الطبي', '0123456791', '09:00 - 22:00'),
5   ('مكة المكرمة - شارع حراء', 'عام', 'مستشفى حراء العام', '0123456792', '07:00 - 19:00');
6
7
```

```
101
102 • INSERT INTO Department (departmentName)
103   VALUES
104   ('طب الأسرة'),
105   ('أمراض القلب'),
106   ('طب الأسنان'),
107   ('طب العظام');
108
```

```
109
110 • INSERT INTO HospitalDepartment (hospitalID, departmentID)
111   VALUES
112   (1,1),(1,2),(1,3),(1,4),
113   (2,1),(2,2),(2,3),(2,4),
114   (3,1),(3,2),(3,3),(3,4),
115   (4,1),(4,2),(4,3),(4,4);
116
117
```

```
129
130 • INSERT INTO UserWeb (username, userpassword, email, role)
131   VALUES
132   ('مستشفى النور', 'Dr. Sami Alotaibi', 'sami.alotaibi@gmail.com', 'Doctor'),
133   ('Dr. Sami Alotaibi', 'Doc101', 'sami.alotaibi@gmail.com', 'Doctor'),
134   ('Dr. Reem Alghamdi', 'Doc102', 'reem.alghamdi@gmail.com', 'Doctor'),
135   ('Dr. Faisal Alharbi', 'Doc103', 'faisal.alharbi@gmail.com', 'Doctor'),
136   ('Dr. Noura Alshahrani', 'Doc104', 'nora.alshahrani@gmail.com', 'Doctor'),
137   ('Dr. Majid Alahmed', 'Doc105', 'majid.alahmed@gmail.com', 'Doctor'),
138   ('Dr. Sara Alqahtani', 'Doc106', 'sara.alqahtani@gmail.com', 'Doctor'),
139   ('Dr. Khalid Ali', 'Doc107', 'khalid.ali@gmail.com', 'Doctor'),
140   ('Dr. Lameya Alotaibi', 'Doc108', 'lama.alotaibi@gmail.com', 'Doctor'),
141   ...
```

141  
142 -- مستشفى الملك فيصل  
143 ('Doc201', 'manar.jmal@gmail.com', 'Doctor'),  
144 ('Doc202', 'joud.alghamdi@gmail.com', 'Doctor'),  
145 ('Doc203', 'nasser.alharbi@gmail.com', 'Doctor'),  
146 ('Doc204', 'hnan.ashref@gmail.com', 'Doctor'),  
147 ('Doc205!', 'majid2.ahmed@gmail.com', 'Doctor'),  
148 ('Doc206', 'sara2.alqahtani@gmail.com', 'Doctor'),  
149 ('Doc207', 'khalid2.ali@gmail.com', 'Doctor'),  
150 ('Doc208', 'lama2.alotaibi@gmail.com', 'Doctor'),  
151  
152 -- مجمع البدر الطبي  
153 ('Doc301!', 'samer.aljahni@gmail.com', 'Doctor'),  
154 ('Doc302!', 'sulma.tariq@gmail.com', 'Doctor'),  
155 ('Doc303!', 'faisal.alqarshi@gmail.com', 'Doctor'),  
156 ('Doc305!', 'mazen.ahmed@gmail.com', 'Doctor'),  
157 ('Doc304!', 'nora.alghamdi@gmail.com', 'Doctor'),  
158 ('Doc306!', 'abdualmhsan.Hommadi@gmail.com', 'Doctor'),  
159 ('Doc307!', 'khalid.alharbi@gmail.com', 'Doctor'),  
160 ('Doc308!', 'abdullah.ali@gmail.com', 'Doctor'),  
161  
162 -- مستشفى حراء العام  
163 ('Doc401!', 'tareq.alotaibi@gmail.com', 'Doctor'),  
164 ('Doc402!', 'joud.alshahrani@gmail.com', 'Doctor'),  
165 ('Doc403!', 'nasser.alghamdi@gmail.com', 'Doctor'),  
166 ('Doc404!', 'hnan.alqahtani@gmail.com', 'Doctor'),  
167 ('Doc405!', 'majid.almutairi@gmail.com', 'Doctor'),  
168 ('Doc406!', 'sara.alshahrani@gmail.com', 'Doctor'),  
169 ('Doc407!', 'khalid.aljahni@gmail.com', 'Doctor'),  
170 ('Doc408!', 'lama.alghamdi@gmail.com', 'Doctor');  
171  
172  
173 • **INSERT INTO** Doctor (userID, hospitalDepartmentID, specialization)  
174 **VALUES**  
175 -- مستشفى التور --  
176 ('طب الأسرة', 5, 1),  
177 ('طب الأسرة', 6, 1),  
178 ('أمراض القلب', 7, 2),  
179 ('أمراض القلب', 8, 2),  
180 ('طب الأسنان', 9, 3),  
181 ('طب الأسنان', 10, 3),  
182 ('طب العظام', 11, 4),  
183 ('طب العظام', 12, 4),  
184  
185  
186  
187  
188  
189  
190  
191  
192  
193  
194 -- مجمع البدر الطبي  
195 ('طب الأسرة', 21, 9),  
196 ('طب الأسرة', 22, 9),  
197 ('أمراض القلب', 23, 10),  
198 ('أمراض القلب', 24, 10),  
199 ('طب الأسنان', 25, 11),  
200 ('طب الأسنان', 26, 11),  
201 ('طب العظام', 27, 12),  
202 ('طب العظام', 28, 12),  
203  
204

184	-- مستشفى الملك فيصل
185	-- (طب الأسرة' (13,5,
186	(طب الأسرة' (14,5,
187	(أمراض القلب' (15,6,
188	(أمراض القلب' (16,6,
189	(طب الأسنان' (17,7,
190	(طب الأسنان' (18,7,
191	(طب العظام' (19,8,
192	(طب العظام' (20,8,
193	(طب العظام' (20,8,
194	

204	-- مستشفى حراء العام
205	-- (طب الأسرة' (29,13,
206	(طب الأسرة' (30,13,
207	(أمراض القلب' (31,14,
208	(أمراض القلب' (32,14,
209	(طب الأسنان' (33,15,
210	(طب الأسنان' (34,15,
211	(طب العظام' (35,16,
212	(طب العظام' (36,16,
213	(طب العظام' (36,16,
214	

## Database after being entered into phpMyAdmin for implementing the system

Patient Table							
	userID	username	patientName	userpassword	email	role	created_at
<input type="checkbox"/>	1	وزَّاع موسى	وزَّاع موسى	\$2yS10\$rlGpwTz6iy28QN1Qc1qV9udYEFv7qNlbqjAkZg7i5....	walaooooo284@gmail.com	patient	2025-12-15 20:36:38
<input type="checkbox"/>	5	د. سامي العتيبي	NULL	Doc101	sami.alotaibi@gmail.com	Doctor	2025-12-13 15:40:35
<input type="checkbox"/>	6	د. ريم الغامدي	NULL	Doc102	reem.alghamdi@gmail.com	Doctor	2025-12-13 15:40:35
<input type="checkbox"/>	7	د. فضيل العربي	NULL	Doc103	faisal.alharbi@gmail.com	Doctor	2025-12-13 15:40:35
<input type="checkbox"/>	8	د. نورا الشهري	NULL	Doc104	nora.alshahrani@gmail.com	Doctor	2025-12-13 15:40:35
<input type="checkbox"/>	9	د. ماجد أحمد	NULL	Doc105	majid.alahmed@gmail.com	Doctor	2025-12-13 15:40:35
<input type="checkbox"/>	10	د. سارة المطعني	NULL	Doc106	sara.alqahtani@gmail.com	Doctor	2025-12-13 15:40:35
<input type="checkbox"/>	11	د. خالد علي	NULL	Doc107	khalid.ali@gmail.com	Doctor	2025-12-13 15:40:35
<input type="checkbox"/>	12	د. لمي العتيبي	NULL	Doc108	lama.alotaibi@gmail.com	Doctor	2025-12-13 15:40:35
<input type="checkbox"/>	13	د. منار جمال	NULL	Doc201	manar.jmal@gmail.com	Doctor	2025-12-13 15:40:35
<input type="checkbox"/>	14	د. جود الغامدي	NULL	Doc202	joud.alghamdi@gmail.com	Doctor	2025-12-13 15:40:35
<input type="checkbox"/>	15	د. ناصر العربي	NULL	Doc203	nasser.alharbi@gmail.com	Doctor	2025-12-13 15:40:35

Appointment Table									
	appointmentID	userID	patientName	doctorID	scheduleID	appointmentDate	appointmentTime	status	
<input type="checkbox"/>	21	40	NULL	6	23	2025-12-22	14:05:00	قيد	
<input type="checkbox"/>	22	40	NULL	6	24	2025-12-28	16:05:00	قيد	

Department Table		
	departmentID	departmentName
<input type="checkbox"/>	1	طب الأسرة
<input type="checkbox"/>	2	أمراض القلب
<input type="checkbox"/>	3	طب الأسنان
<input type="checkbox"/>	4	طب العظام

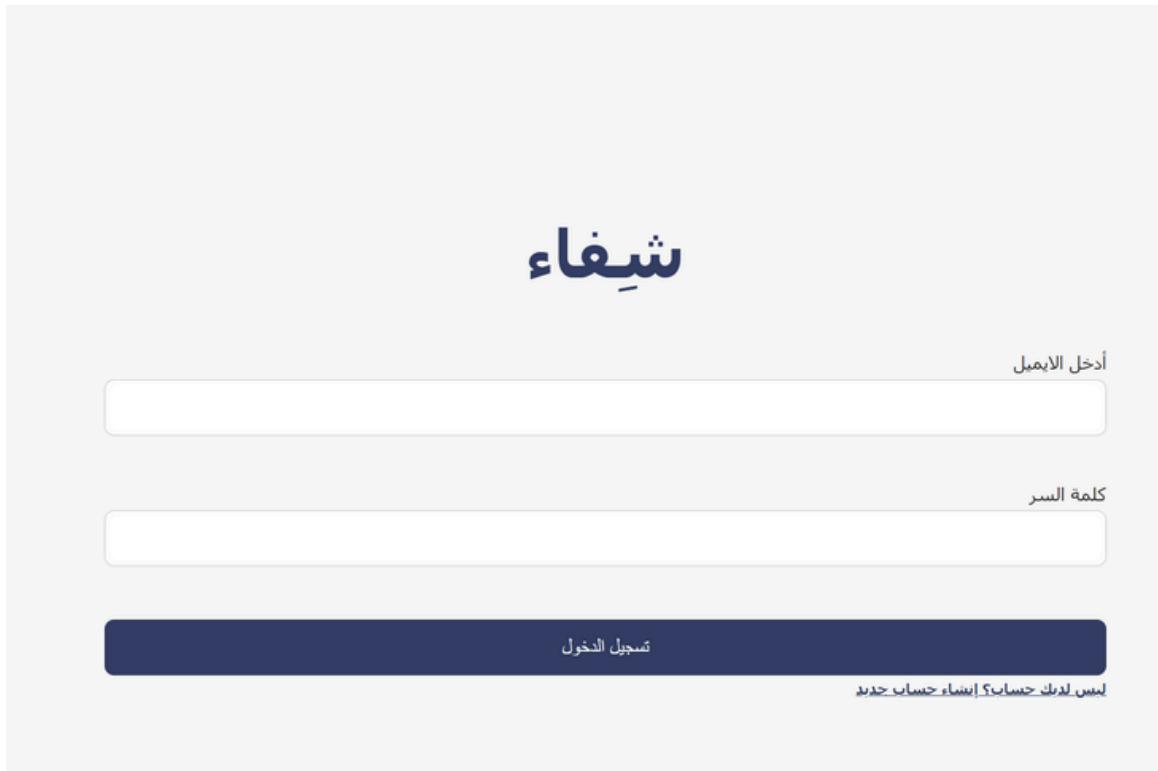
Hospital Table						
	hospitalID	hospitalName	hospitalType	address	phone	workingHours
<input type="checkbox"/>	1	مستشفى التور	عام	مكة المكرمة - جبل التور	0123456789	08:00 - 20:00
<input type="checkbox"/>	2	مستشفى الملك فيصل	عام	مكة المكرمة - شارع الملك فيصل	0123456790	08:00 - 18:00
<input type="checkbox"/>	3	مجمع النور الطبي	خاص	مكة المكرمة - حي الشرائع	0123456791	09:00 - 22:00
<input type="checkbox"/>	4	مستشفى حراء العام	عام	مكة المكرمة - شارع حراء	0123456792	07:00 - 19:00

# Report 4

Prototype design

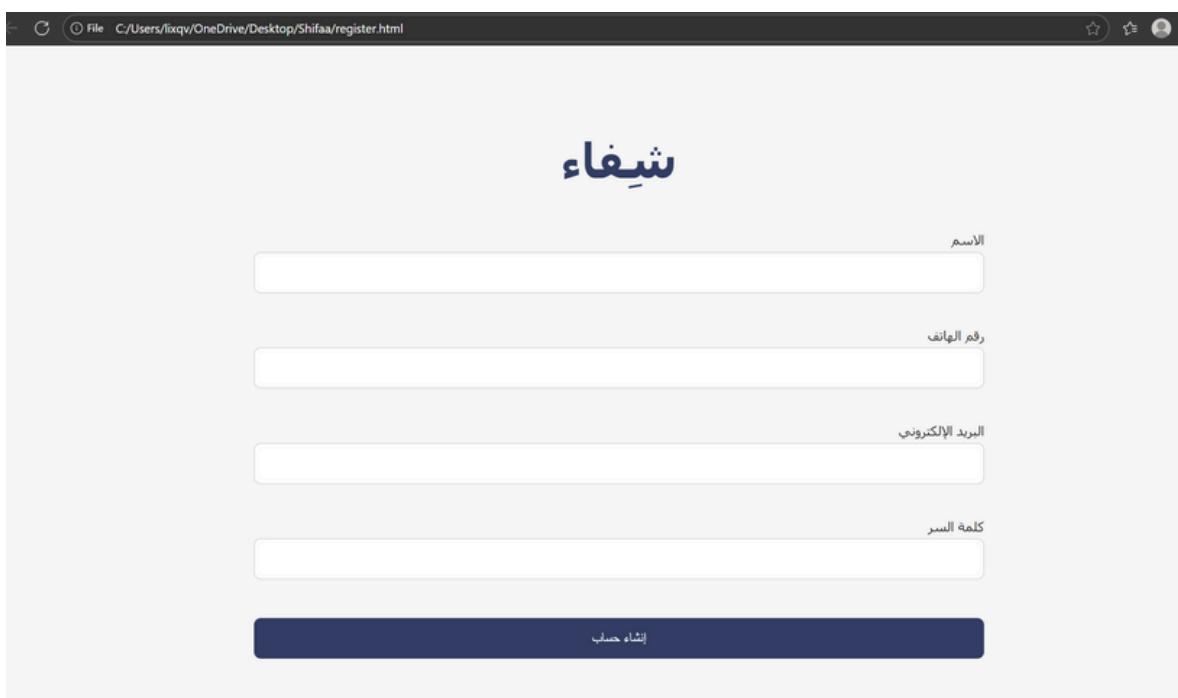
Name	Tasks
Walaa Mousa Hommadi	Prototype design
Refal Omar Aloufi	Prototype design
Meznah Rubaigan	Prototype design
Wajn alotaibi	Prototype design
Sulafah Madabighy	Prototype design

# login page:



The screenshot shows a light gray login form for 'Shifaa'. At the top center is the word 'شِفَاء' in a dark blue, stylized font. Below it is a horizontal input field with a placeholder 'أدخل البريد الإلكتروني' (Enter email address) in black text. Underneath is another horizontal input field with a placeholder 'كلمة السر' (Password) in black text. A large dark blue button at the bottom contains the white text 'تسجيل الدخول' (Login). Below this button, a small link in black text reads 'ليس لديك حساب؟ إنشاء حساب جديد' (Don't have an account? Create a new account).

# Register Page



The screenshot shows a registration form for 'Shifaa' displayed in a browser window. The title bar indicates the file path: 'C:/Users/lxqz/OneDrive/Desktop/Shifaa/register.html'. The page features the same 'شِفَاء' logo at the top. Below it are four input fields with labels in Arabic: 'الاسم' (Name) above a white input field, 'رقم الهاتف' (Phone number) above another white input field, 'البريد الإلكتروني' (Email) above a third white input field, and 'كلمة السر' (Password) above a fourth white input field. A large dark blue button at the bottom contains the white text 'إنشاء حساب' (Create account). The browser interface includes standard navigation buttons and a star icon for bookmarks.

# Patient pages

مواعيدي

اسم الطبيب:  
المستشفى:  
الدور:  
التاريخ:  
الوقت:

الغاء تعديل

اسم الطبيب:  
المستشفى:  
الدور:  
التاريخ:  
الوقت:

الغاء تعديل

آخر موعد

صفحة الرئيسية الملف الشخصي الإعدادات

اختر المستشفى

اسم المستشفى:  
نوع المستشفى:  
الموانئ:  
الهاتف:  
مواعيد العمل:

اسم المستشفى:  
نوع المستشفى:  
الموانئ:  
الهاتف:  
مواعيد العمل:

اسم المستشفى:  
نوع المستشفى:  
الموانئ:  
الهاتف:  
مواعيد العمل:

صفحة الرئيسية الملف الشخصي الإعدادات

اختر القسم الطبي الذي تريده

→

صفحة الرئيسية الملف الشخصي الإعدادات

File C:/Users/lixqv/OneDrive/Desktop/Shifaa/doctor.html

### اختر طبيبك

اسم الطبيب :

اسم الطبيب :

→

الصفحة الرئيسية

ملف الشخصي

الإعدادات

File C:/Users/lixqv/OneDrive/Desktop/Shifaa/booking.html

### تأكيد تفاصيل الموعد

اسم المقطعة

اسم المستشفى

اسم الطبيب

التاريخ

mm / dd / yyyy

الوقت

-- : -- : --

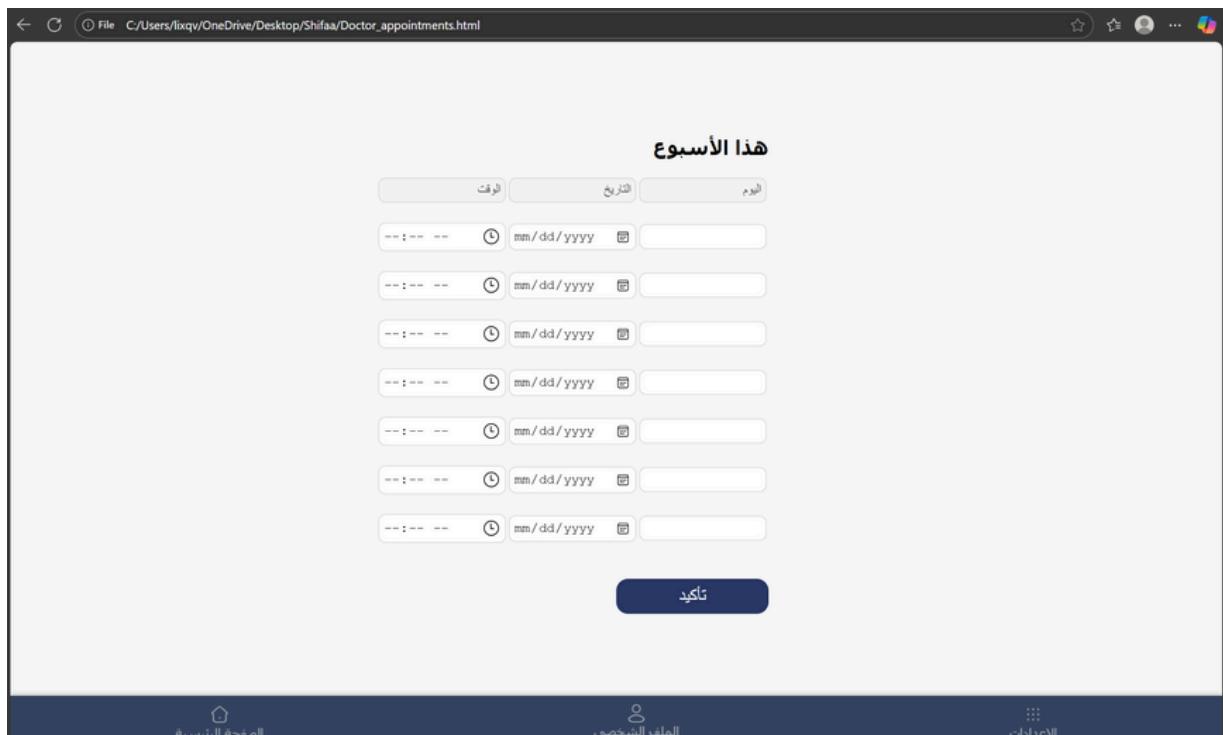
تأكيد

الصفحة الرئيسية

ملف الشخصي

الإعدادات

# Doctor pages



# Profile Page

الاسم

رقم الهاتف

البريد الإلكتروني

تعديل البيانات

صفحة الرئيسية

ملف الشخصي

إعدادات

الاسم

رقم الهاتف

البريد الإلكتروني

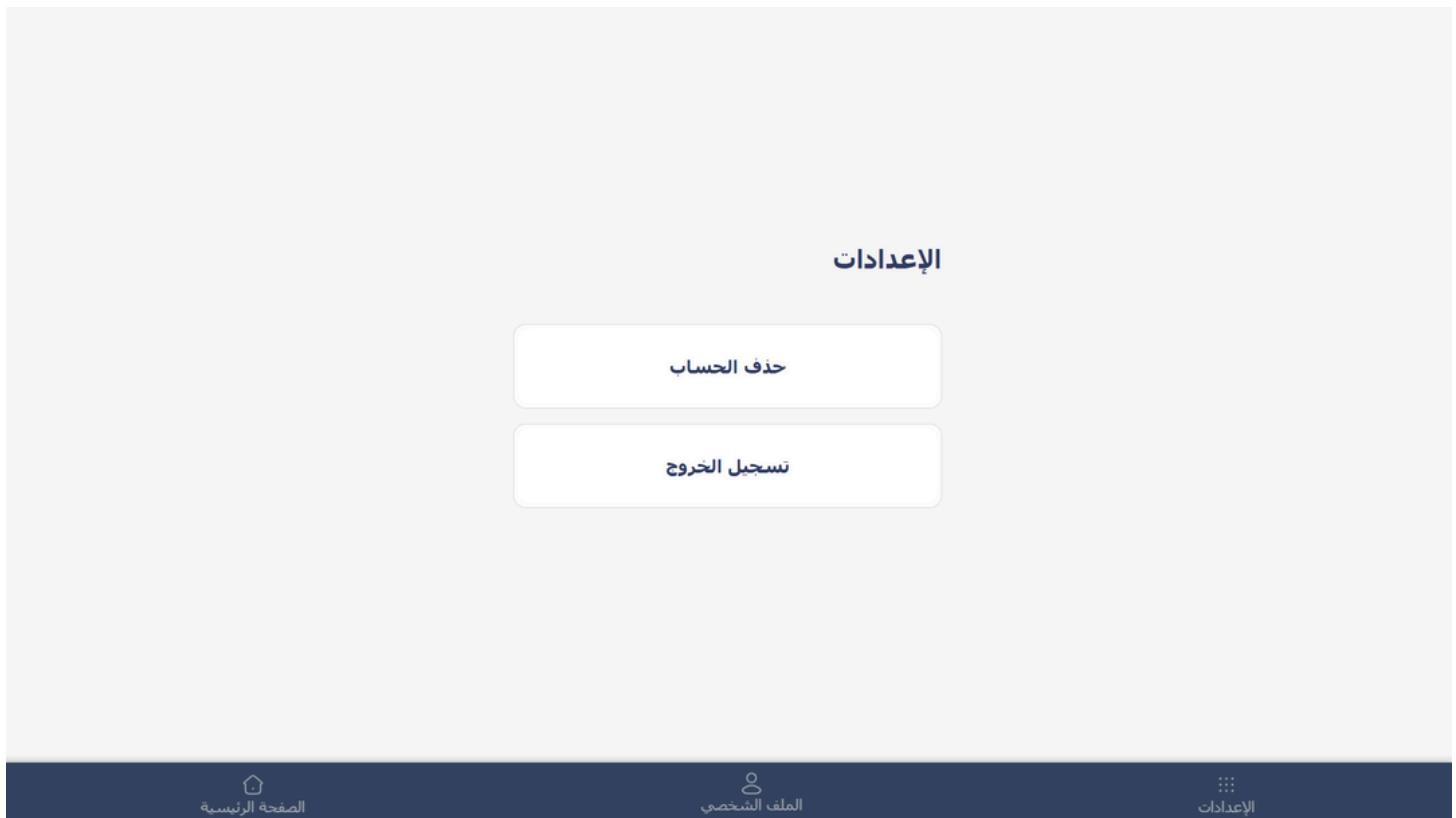
حفظ التعديل

صفحة الرئيسية

ملف الشخصي

إعدادات

# Settings page



# Report 5

## coding

Name	Tasks
Walaa Mousa Hommadi	css & javascript & database & php
Refal Omar Aloufi	html & javascript & database & php
Meznah Rubaigan	html & javascript & database & php
Wajn alotaibi	html & javascript & database & php
Sulafah Madabighy	css & javascript & database & php

## Style.css

Styling File (CSS): Defines the entire look and feel of the website, including colors, fonts, and layout to create a visually appealing and consistent user interface

```
.scroll-arrow {
    position: fixed;
    bottom: 30px;
    left: 50%;
    transform: translateX(-50%);
    font-size: 4rem;
    padding: 15px 20px;
    border-radius: 50%;
    color: #333;
    text-decoration: none;
    font-weight: bold;
    cursor: pointer;
    z-index: 1000;

    /* حركة ملائمة للأعلى والأسفل */
    animation: bounce 1s infinite;
}

@keyframes bounce {
    0%, 100% {
        transform: translateX(-50%) translateY(0);
    }
    50% {
        transform: translateX(-50%) translateY(-20px);
    }
}
```

```
body {
    margin: 0;
    padding: 0;
    font-family: "Tahoma", sans-serif;
    background-color: #F6F6F6;
    display: flex;
    justify-content: center;
    align-items: center;
    min-height: 100vh;
    padding-bottom: 70px;
}
```

```
label {
    font-size: 15px;
    color: #333;
    display: block;
    text-align: right;
    margin-bottom: 5px;
}

input, select {
    width: 100%;
    padding: 14px;
    border-radius: 8px;
    border: 1px solid #ccc;
    margin-bottom: 20px;
    font-size: 15px;
    outline: none;
}
```

```
.bottom-navbar {
    background-color: #364560;
    width: 100%;
    position: fixed;
    bottom: 0;
    left: 0;
    display: flex;
    justify-content: space-around;
    padding: 10px 0;
    box-shadow: 0 -2px 5px rgba(0, 0, 0, 0.2);
    z-index: 1000;
}

.nav-item {
    display: flex;
    flex-direction: column;
    align-items: center;
    color: #ffffff;
    font-size: 14px;
    text-decoration: none;
}
```

## User Access Interfaces(HTML)

### register.html

Registration Page: The user interface for creating a new account. It includes the necessary input fields for a patient to register with the system (Name, Email, Password, etc.).

```
<form id="registerForm" method="POST" action="register.php">
    <label>اسم</label>
    <input type="text" name="name" id="name" ><br><br>

    <label>رقم الهاتف</label>
    <input type="tel" name="phone" id="phone" ><br><br>

    <label>البريد الإلكتروني</label>
    <input type="email" name="email" id="email" ><br><br>

    <label>كلمة السر</label>
    <input type="password" name="password" id="password" ><br><br>

    <button type="submit">إنشاء حساب</button>
</form>

</div>
```

### login.html

Login Page: The main interface for accessing the system. Both users (patients) and doctors use this page to enter their credentials and gain entry.

```
<div class="login-container">

    <h1>موقع</h1>

    <p id="validationMessage"></p>

    <form id="loginForm" method="POST" action="login.php">
        <label>أدخل البريد</label>
        <input type="email" name="email" id="email" required><br><br>

        <label>كلمة السر</label>
        <input type="password" name="password" required><br><br>

        <button type="submit">تسجيل الدخول</button>
    </form>

    <a href="register.html">لديك حساب؟ إنشاء حساب جديد</a>

</div>
```

## Patient Flow and Booking Logic (JS)

### validateNext.js

Input Validation: This script ensures that the user has made a required selection (like choosing a department) before they can proceed to the next stage of the booking process, ensuring a smooth flow.

```
JS validateNext.js > ...
1  document.addEventListener("DOMContentLoaded", function () {
2    const nextBtn = document.querySelector(".next-link");
3    const validationMessage = document.getElementById("validationMessage");
4
5    if (!nextBtn) return;
6
7    nextBtn.addEventListener("click", function (event) {
8      const radios = document.querySelectorAll('input[type="radio"]');
9
10     if (radios.length === 0) return;
11
12     const selected = document.querySelector('input[type="radio"]:checked');
13
14     if (!selected) {
15       event.preventDefault();
16       validationMessage.textContent = "يجب اختيار دكتور";
17       validationMessage.style.display = "block";
18     } else {
19       validationMessage.style.display = "none";
20     }
21   });
22 });
23 );
24 );
```

### Main\_patient.js

patient Operations Management: This file contains the core logic for patient actions, such as initiating new appointment bookings, handling modifications, and communicating these requests to the server.

The main methods and techniques used here are: `fetch()` - for receiving data  
`addEventListener()` - run code when user does certain things .`then()` - which runs after the `fetch()` when the response for the `fetch()` arrives

```
JS Main_patient.js > window.addEventListener(DOMContentLoaded) callback
1  function bookAppointment(scheduleID, doctorID) {
2    fetch('add_appointment.php', {
3      method: 'POST',
4      headers: { 'Content-Type': 'application/x-www-form-urlencoded' },
5      body: `scheduleID=${scheduleID}&doctorID=${doctorID}`
6    })
7      .then(res => res.json())
8      .then(data => {
9        if (data.success) {
10          const appt = data.appointment;
11          document.querySelector('.AppointmentOne-container #Content').innerHTML =
12            `الدكتور: ${appt.doctor} <br><br>
13            المستشفى: ${appt.hospital} <br><br>
14            التاريخ: ${appt.date} <br><br>
15            الوقت: ${appt.time}`;
16          alert(`تم تأكيد الحجز`);
17        } else {
18          alert(data.message);
19        }
20      })
21      .catch(err => console.error(err));
22  }
23
24 function editAppointment(id, doctor, date, time) {
25
26  window.location.href = `edit_appointment.php?id=${id}&doctor=${encodeURIComponent(doctor)}&date=${date}&time=${time}`;
27 }
28 window.addEventListener('DOMContentLoaded', () => [
29   const params = new URLSearchParams(window.location.search);
30   const id = params.get('id');
31   const doctor = params.get('doctor');
32   const date = params.get('date');
33   const time = params.get('time');
34
35   if(id) {
36     document.getElementById('id').value = id;
37     document.getElementById('doctor').value = doctor;
38     document.getElementById('date').value = date;
39     document.getElementById('time').value = time;
40   }
41 ]);
```

## **Server-side & Database Integration(PHP)**

## update\_appointment.php

This is the code that allows a user to update an appointment that they have booked by updating it in the database according to what the user selected

```
<?php
session_start();
require_once "db_connect.php";

if (!isset($_POST['appointmentID'], $_POST['status'])) {
    header("Location: Main_doctor.php");
    exit();
}

$appointmentID = $_POST['appointmentID'];
$status = $_POST['status'];

// طویف نل غل ات دخت
$stmt = $conn->prepare("UPDATE appointment SET status=? WHERE appointmentID=?");
$stmt->bind_param("si", $status, $appointmentID);
$stmt->execute();

header("Location: Doctor_MyAppointments.php");
exit();
?>
```

doctor.php

This code checks what the user has selected for a hospital and a department and displays the available doctors accordingly for the user to select from.

# Report 6

Test and implemented system

Name	Tasks
Walaa Mousa Hommadi	Correcting errors & test & Writing the final report
Refal Omar Aloufi	Correcting errors & test & Writing the final report
Meznah Rubaigan	Correcting errors & test
Wajn alotaibi	test
Sulafah Madabighy	test

The patient must first create an account

A screenshot of a web browser window displaying a registration form. The title bar shows the path: C:/Users/lixqv/OneDrive/Desktop/Shifaa/register.html. The page has a light gray background with a dark blue header containing the Arabic word "شفاء" (Shifaa). Below the header are four input fields with labels in Arabic: "الاسم" (Name), "رقم الهاتف" (Phone number), "البريد الإلكتروني" (Email address), and "كلمة السر" (Password). Each field has a placeholder text and a red error message above it. A dark blue button at the bottom is labeled "إنشاء حساب" (Create account).

Input validation instantly triggers an alert, notifying the user that all required fields must be completed before the form can be successfully submitted

A screenshot of the same web browser window, showing the registration form after the "الاسم" (Name) field has been filled with "نورة عبدالله". The red validation message above the field is no longer present. The other three fields remain empty with their respective validation messages. The "Create account" button is visible at the bottom.

During registration, the system performs an immediate validation check, displaying a notification if the entered email address is already associated with an existing account

شِفَاعٌ

هذا البريد الإلكتروني مسجل مسبقاً، يرجى استخدام بريد آخر.

الاسم  
نورة عبدالله

رقم الهاتف  
0551230099

البريد الإلكتروني  
Noura.Abdullah@gmail.com

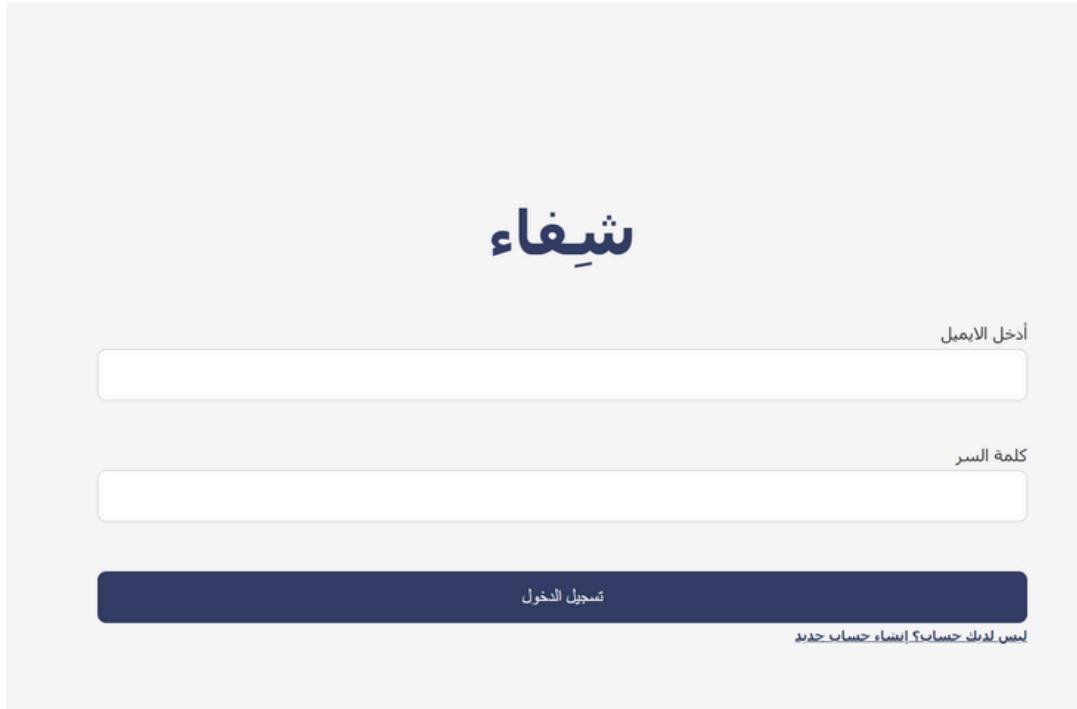
كلمة السر

إنشاء حساب

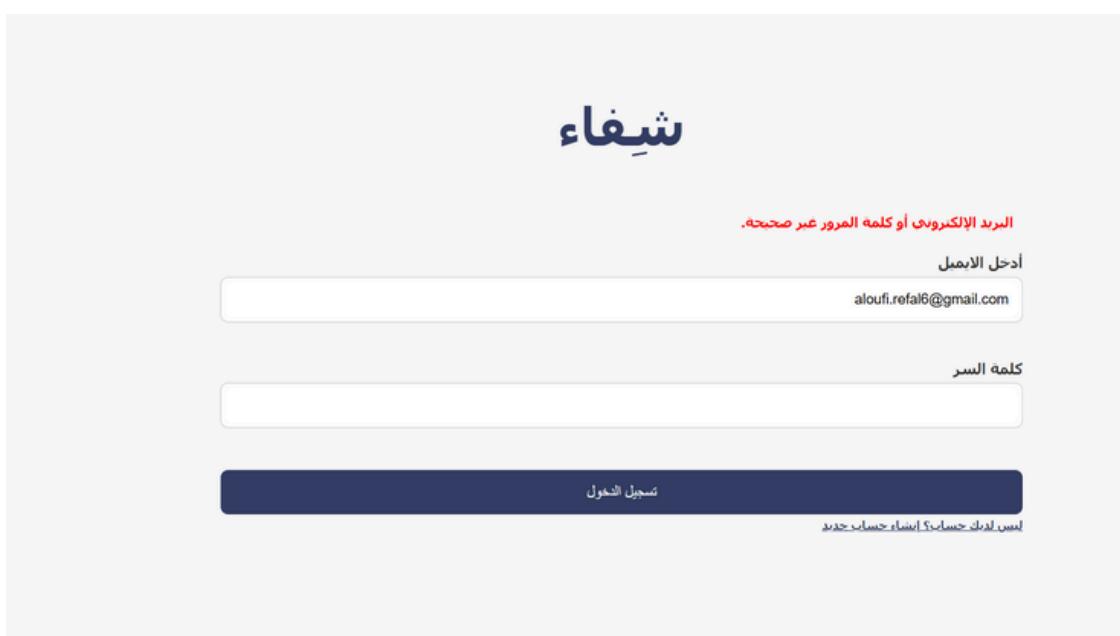
A JavaScript alert confirms the account creation to the user immediately after successful registration



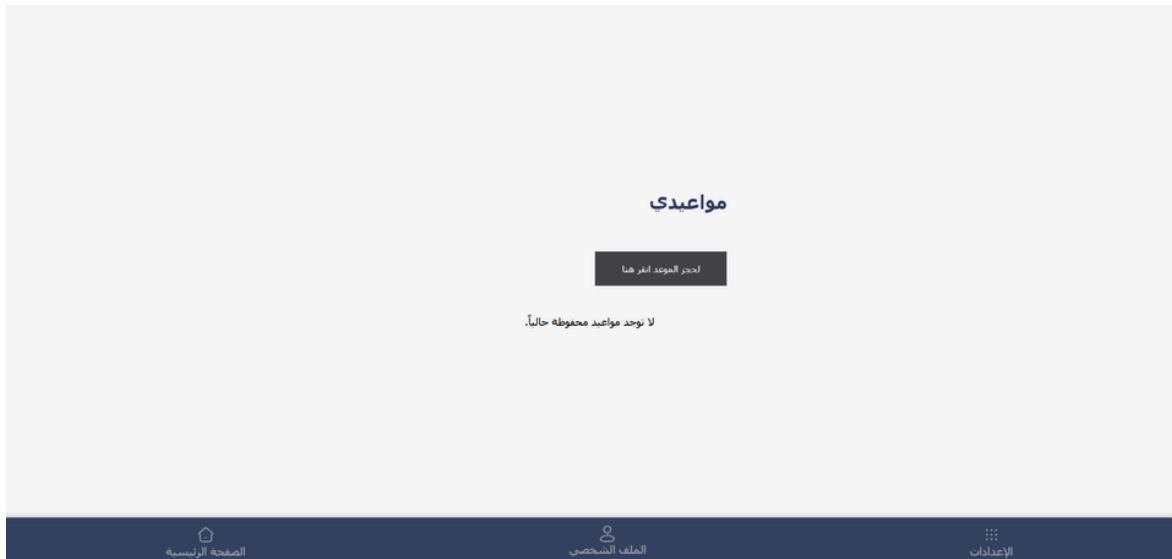
The appointment booking process requires the user to log in, select the desired medical & section, and finalize the request through the main patient management script(for doctor (patient



During login, the system performs an immediate validation check, displaying a notification if the entered email address or password is incorrect, or if the email is not associated with an existing account in the database



# Home page for Patient:



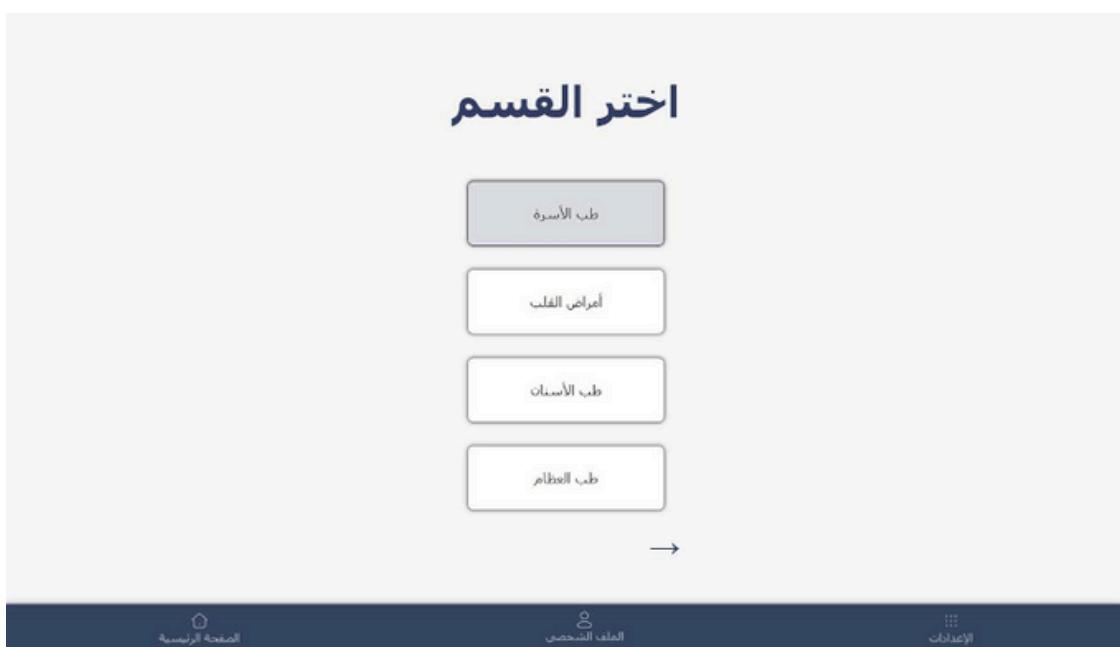
The patient views the list of available hospitals and must choose one hospital to continue



,Upon attempting to proceed, a validation alert instantly blocks further progression explicitly requiring the user to make a selection before continuing the workflow



The patient selects the medical department based on their condition



The patient selects a doctor from the available doctors in the chosen department



The patient chooses an available time that was added by the doctor and fits their schedule



## اختيار الوقت

▼ 08:51:00 من 07:51:00 إلى 08:51:00 2025-12-15

اختر الوقت

08:51:00 من 07:51:00 إلى 08:51:00 2025-12-15

20:53:00 من 18:51:00 إلى 20:53:00 2025-12-16

22:52:00 من 20:52:00 إلى 22:52:00 2025-12-17

11:52:00 من 08:52:00 إلى 11:52:00 2025-12-18

21:52:00 من 18:52:00 إلى 21:52:00 2025-12-19

20:53:00 من 20:53:00 إلى 20:53:00 2025-12-20

20:56:00 من 12:52:00 إلى 20:56:00 2025-12-21

All appointment details are shown to the patient, and the patient must confirm the appointment

تأكيد تفاصيل الموعد

اسم المست接待ة  
سارة المكارم - جبل الظهر

اسم المستشفي  
مستشفى الظهر

اسم الطبيب  
د. سامي العتيبي

التاريخ  
2025-12-15

الوقت  
AM 07:51

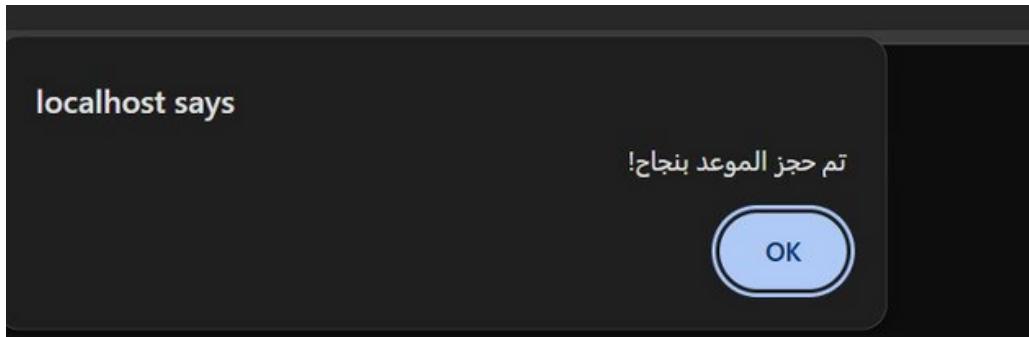
تأكيد الحجز

الصفحة الرئيسية

ملحق الشخصي

الإحذفات

A message appears to confirm that the appointment booking was successful

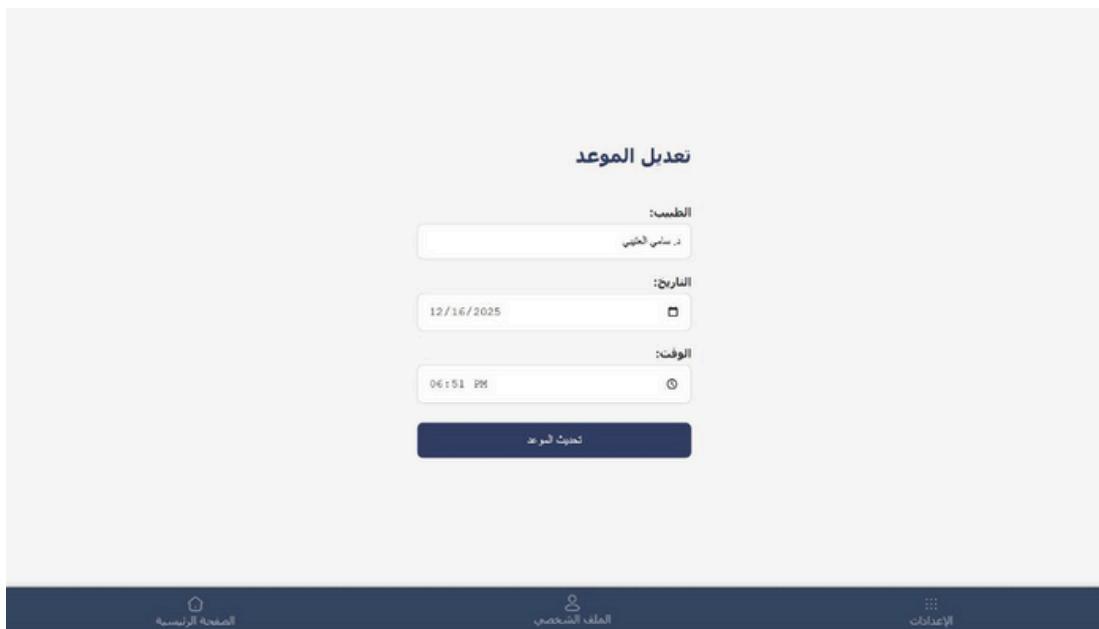


All booked appointment details are displayed on the patient's main page after booking

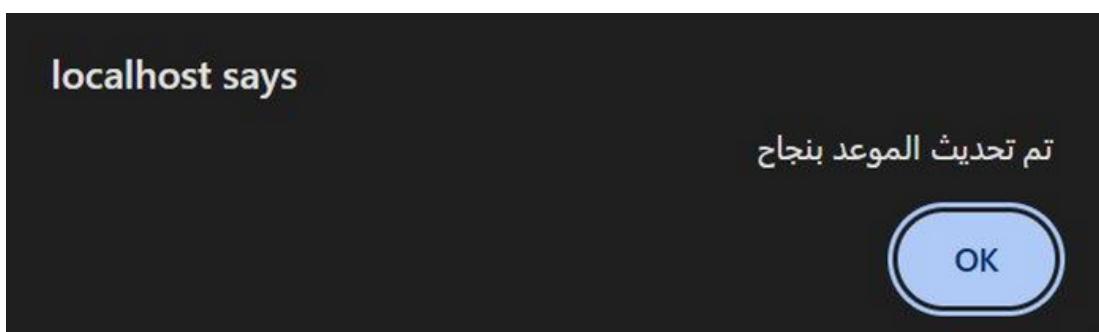
A mandatory confirmation prompt is presented to the user, ensuring intentionality before the critical action of permanently cancelling the appointment



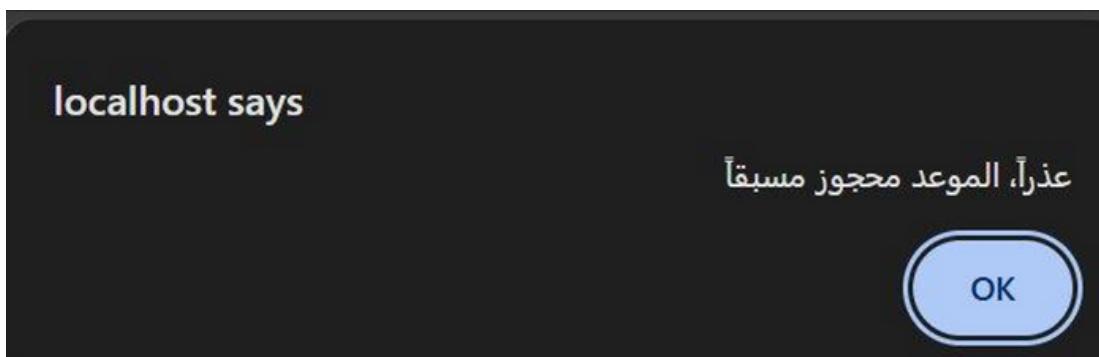
The patient is granted restricted modification rights, allowing them to adjust only the scheduled time of their appointment with the currently assigned physician



A clear success alert is immediately presented to the user, confirming that the appointment details have been successfully modified and saved



During appointment modification, the system proactively alerts the user with a prompt message if the selected time slot has been booked by another patient, thus preventing double-booking conflicts



The patient can view their profile and edit their information, and the changes are saved in the database

الاسم  
أحمد محمد

رقم الهاتف  
055551342

البريد الإلكتروني  
Mohammde@gmail.com

[تعديل البيانات](#)

[الصفحة الرئيسية](#) [ملف الشخصي](#) [الإعدادات](#)

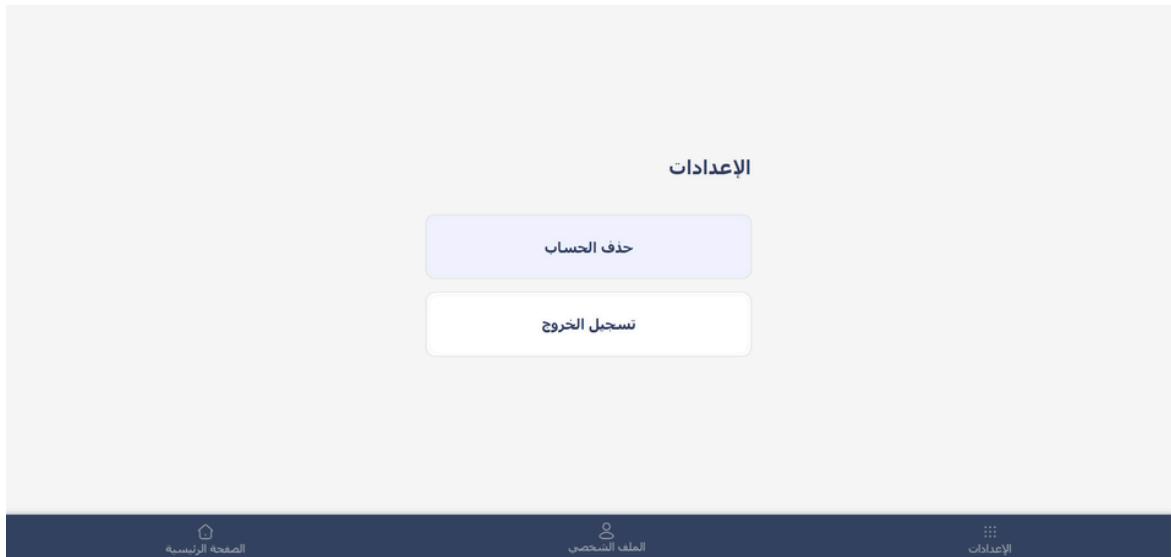
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[حفظ التعديلات](#)

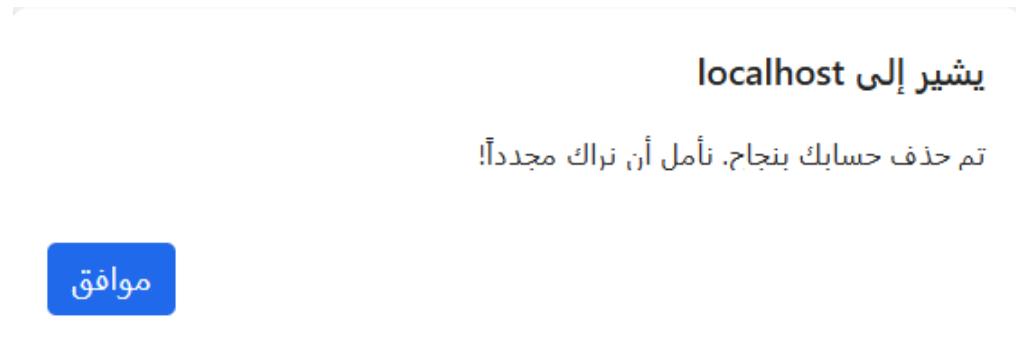
[الصفحة الرئيسية](#) [ملف الشخصي](#) [الإعدادات](#)



If the user clicks on delete account, an alert appears to ask the patient to confirm the account deletion



When the user confirms, a success message appears and the patient is redirected to the login page



When the user clicks logout, they are redirected to the login page



# Home page for Doctor:

The patient has not booked any appointments yet, so no appointments appear on their main page

مواعيدي

لا يوجد مواعيد حتى الآن.

إضافة مواعيد

الصفحة الرئيسية

الإعدادات

An interface is presented to the doctor to add and manage available time slots after clicking the add times button, allowing the definition of appointment availability

**هذا الأسبوع**

وقت النهاية	وقت البداية	التاريخ	الدور
04:14 PM <input type="radio"/>	03:14 PM <input type="radio"/>	12/19/2025 <input type="button" value=""/>	الأحد
07:15 PM <input type="radio"/>	05:15 PM <input type="radio"/>	12/20/2025 <input type="button" value=""/>	الاثنين
08:15 PM <input type="radio"/>	07:15 PM <input type="radio"/>	12/21/2025 <input type="button" value=""/>	الثلاثاء
04:15 AM <input type="radio"/>	03:15 AM <input type="radio"/>	12/22/2025 <input type="button" value=""/>	الاربعاء
11:15 AM <input type="radio"/>	09:15 AM <input type="radio"/>	12/23/2025 <input type="button" value=""/>	الخميس
--:-- -- <input type="radio"/>	--:-- -- <input type="radio"/>	mm/dd/yyyy <input type="button" value=""/>	
07:15 PM <input type="radio"/>	05:15 PM <input type="radio"/>	12/24/2025 <input type="button" value=""/>	السبت

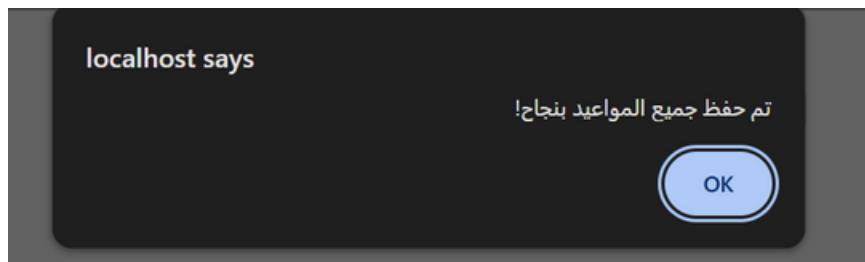
...

[الإعدادات](#)

...

[الصفحة الرئيسية](#)

A confirmation alert is displayed to ensure intentional saving of the entered availability times before they are permanently stored in the database



All appointments booked by patients are displayed on the doctor's main page

A screenshot of a web application interface for a doctor. The page has a light gray background. At the top center, there is a title "مواعيدي" (My Appointments) in blue. Below the title, there are two appointment cards, each containing patient information and a status section. The first appointment card shows: "اسم المريض: نوره عبدالله", "النارج: 16-12-2025", "الوقت: 09:50:00", and "الحالة: قادم". It has a dropdown menu on the left and a "حضر" (Present) button on the right. The second appointment card shows: "اسم المريض: محمد أحمد", "النارج: 18-12-2025", "الوقت: 08:52:00", and "الحالة: قادم". It also has a dropdown menu on the left and a "حضر" button on the right. At the bottom of the page, there is a dark blue footer bar with three items: a house icon labeled "الصفحة الرئيسية" (Home Page), a three-dot icon labeled "الإعدادات" (Settings), and a search bar labeled "ابحث هنا" (Search here).

The doctor updates the appointment status by indicating whether the patient attended or did not attend, after which the appointment is finalized and removed from both the doctor's and the patient's appointment lists

