Desktop Application

The home page of the developed pediatrics information system was shown in figure 1. This page provides an overview about the system.

Figure 2 showed the admin's login page, Figure 3 showed the receptionist's login page, Figure 4 showed the doctor's login page, Figure 5 showed the lab attendant's login page. These pages provide a secured environment for authorized member to login into the system. Such authorized members are required to provide a valid username, ID Number and password assigned to them by the system administrator.

Figure 6 showed the incorrect login page.

Figure 7 showed the admin's portal. This enables such an admin to manage patient, doctor and receptionist details and appointments.

Figure 8 showed the receptionist's portal. This enables such a receptionist to manage patient details and appointments, view profile and change password.

Figure 9 showed the doctor's portal. This enables such a doctor to manage patient details and appointments, view profile and change password.

Figure 10 showed the lab attendant's portal. This enables such a lab attendant to manage patient details, view profile and change password.

Figure 11 showed the add receptionist's page, Figure 12 showed the delete receptionist's page, Figure 13 showed the update receptionist's page, Figure 14 showed the search receptionist's page, Figure 15 showed the view receptionist's page. These pages provide a controlled management for receptionists by admin.

Figure 16 showed the add doctor's page, Figure 17 showed the delete doctor's page, Figure 18 showed the update doctor's page, Figure 19 showed the search doctor's page, Figure 20 showed the view doctor's page. These pages provide a controlled management for doctors by admin.

Figure 21 showed the add patient's page, Figure 22 showed the delete delete's page, Figure 23 showed the update patient's page, Figure 24 showed the search patient's page, Figure 25 showed the view patient's page. These pages provide a controlled management for patients by admin, receptionist or doctor.

Each doctor, receptionist and lab attendant can view and edit his profile. Figure 26 showed the receptionist's profile page, Figure 27 showed the list of procedures page that enable receptionist to edit profile.

Each doctor, receptionist can make and edit appointment. Figure 28 showed the appointment page, this enables such a doctor to view and approve appointments scheduled by the patients.

Figure 29 showed the diagnosis and prescriptions of the patients.

Figure 30 showed the successfully added patient, Figure 31 showed confirm delete patient page.

Figure 32 showed the send message form.

Figure 33 showed the outpatient billing form, Figure 34 showed the Inpatient billing form.

Desktop Application GUI Screens:
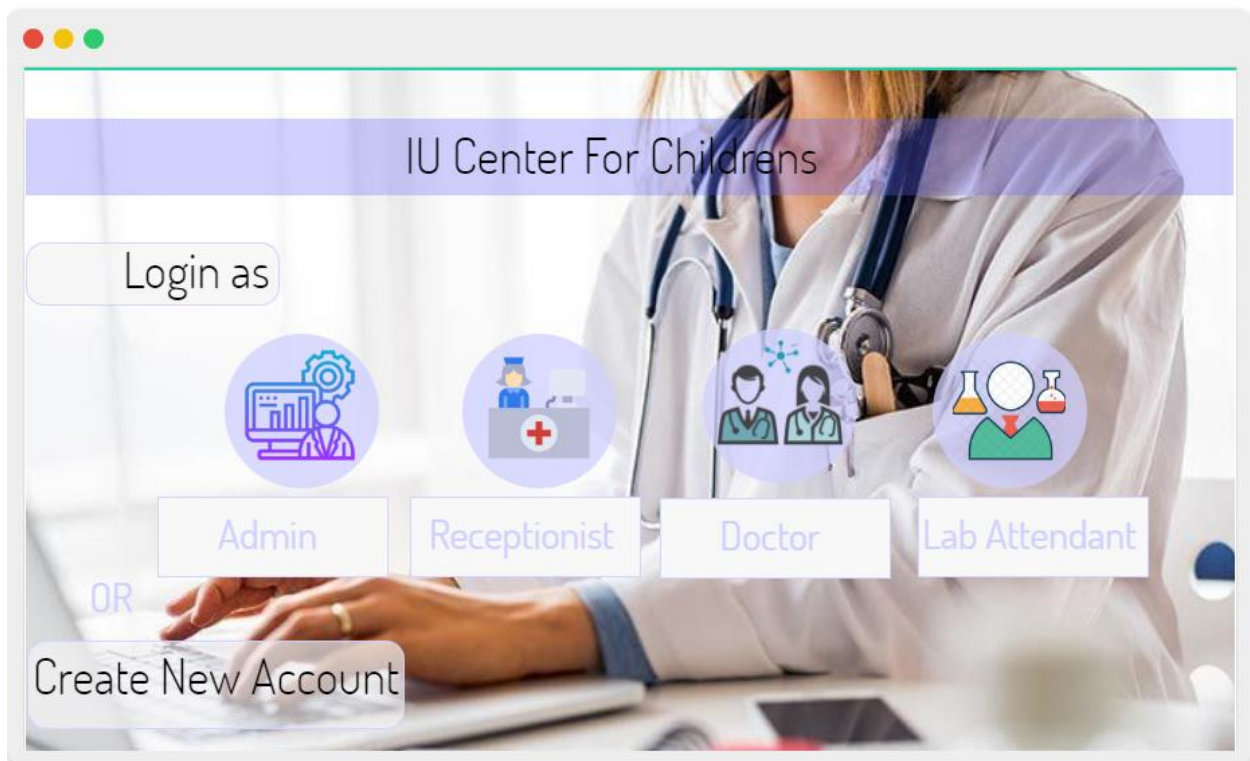
Fig. 1: The Home Page of the Pediatrics Management System
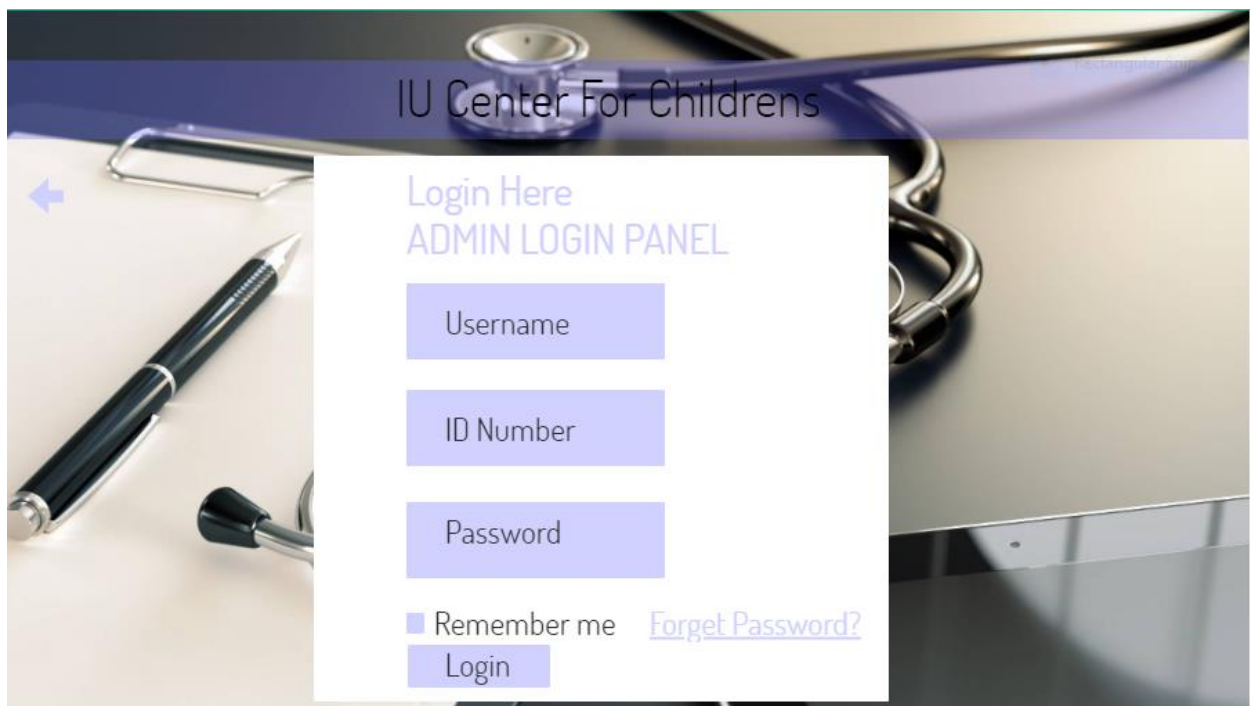
Fig. 2: Admin's Login page
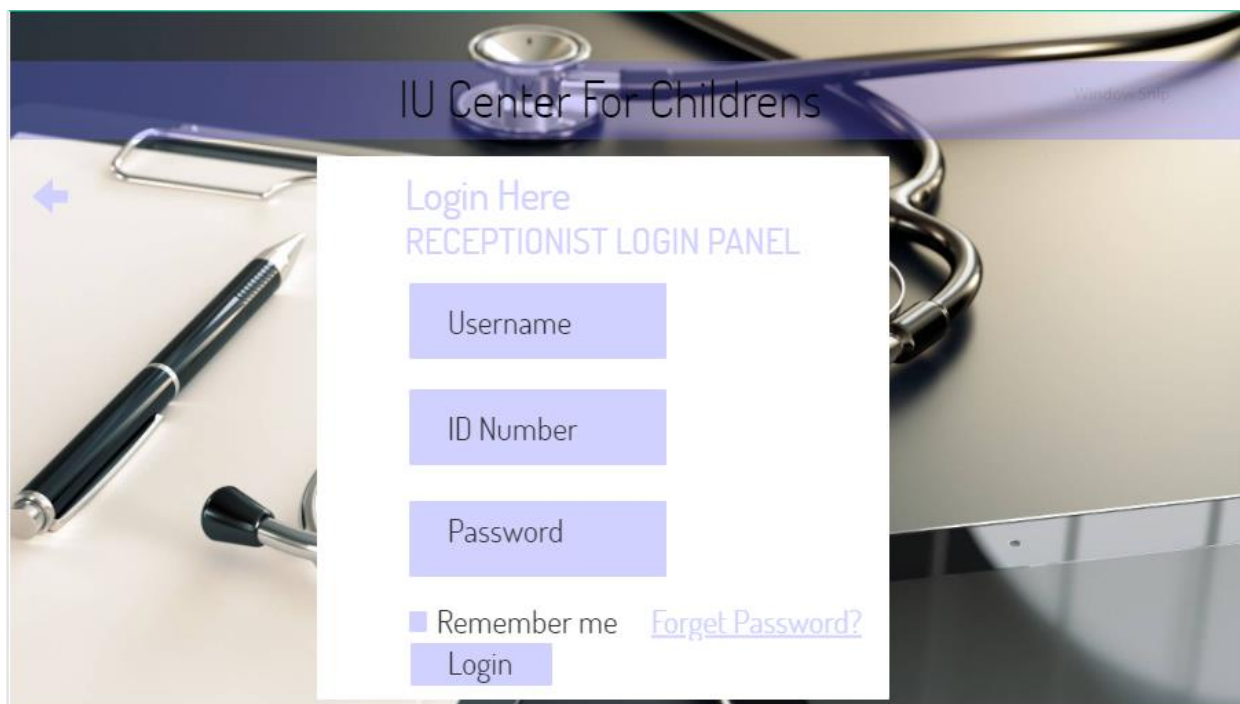
Fig. 3: Receptionist's Login page
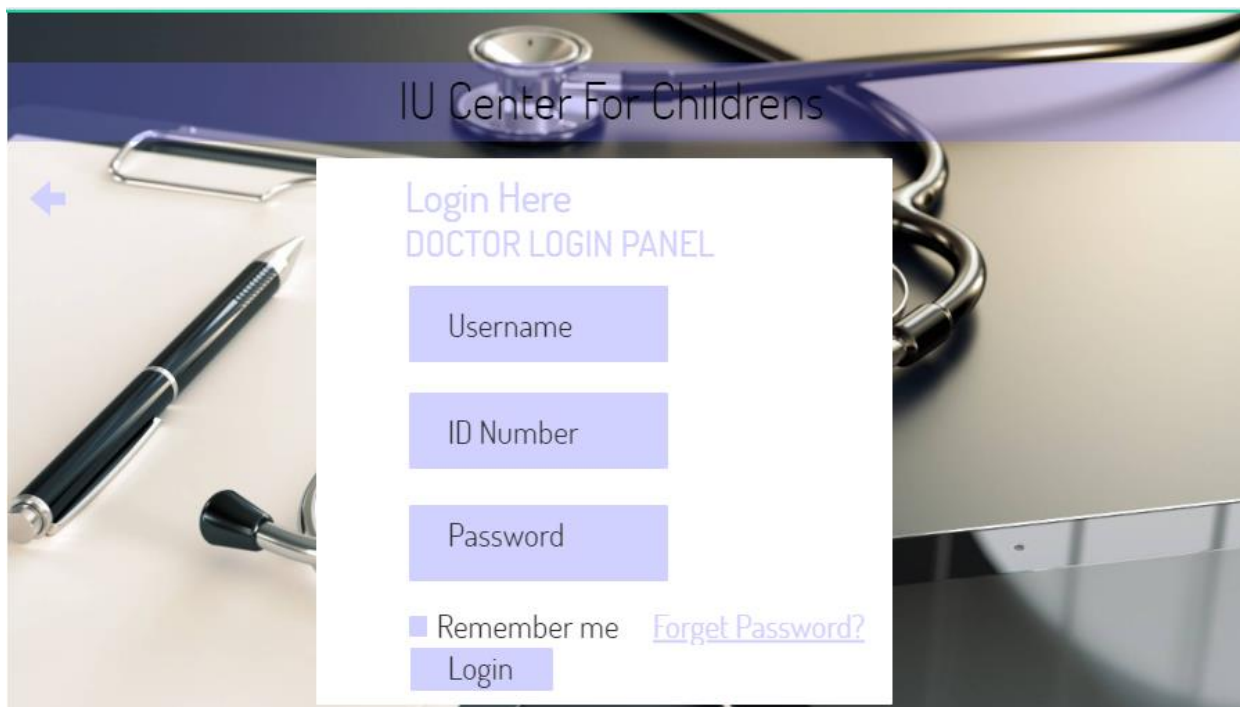
Fig. 4: Doctor's Login page
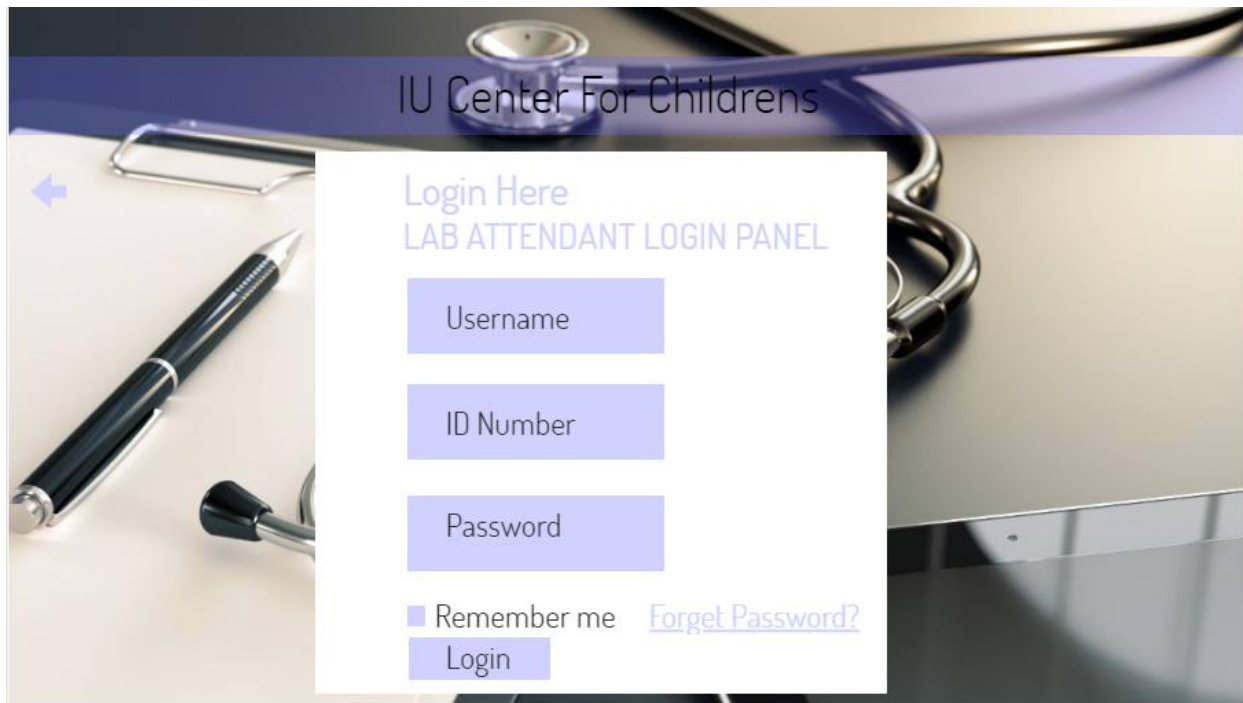
Fig. 5: Lab Attendant's Login page
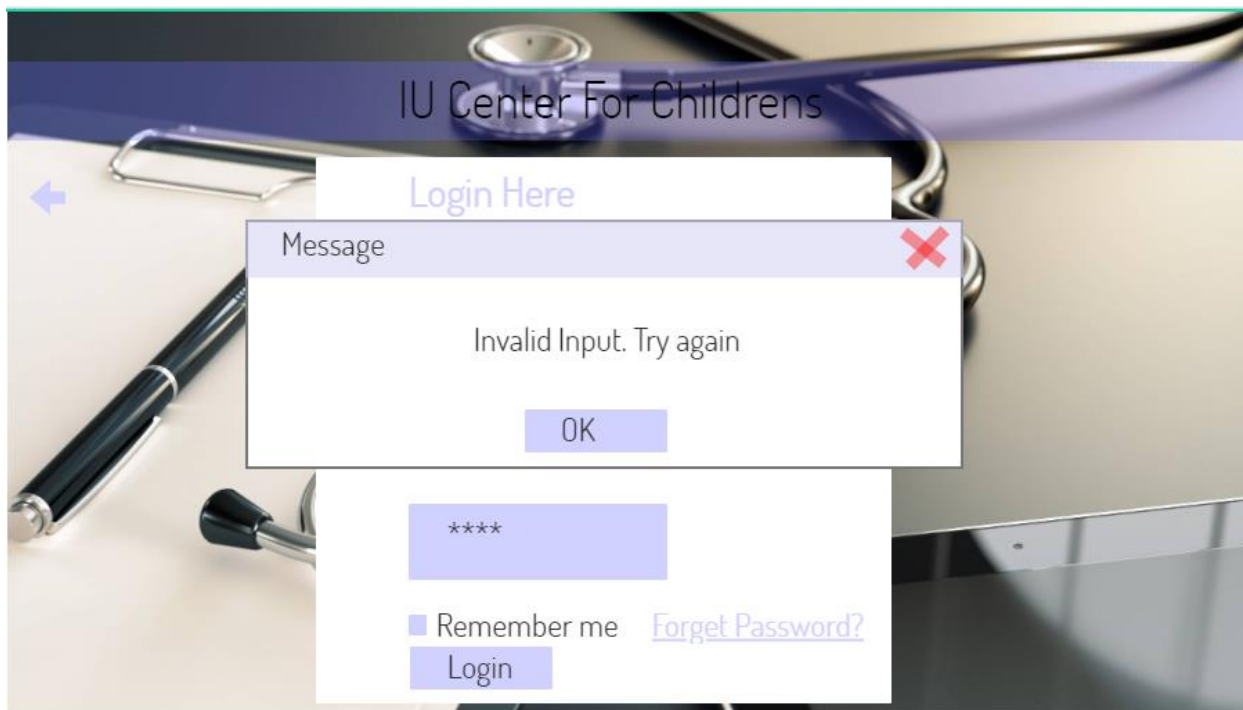
Fig. 6: Wrong Login page
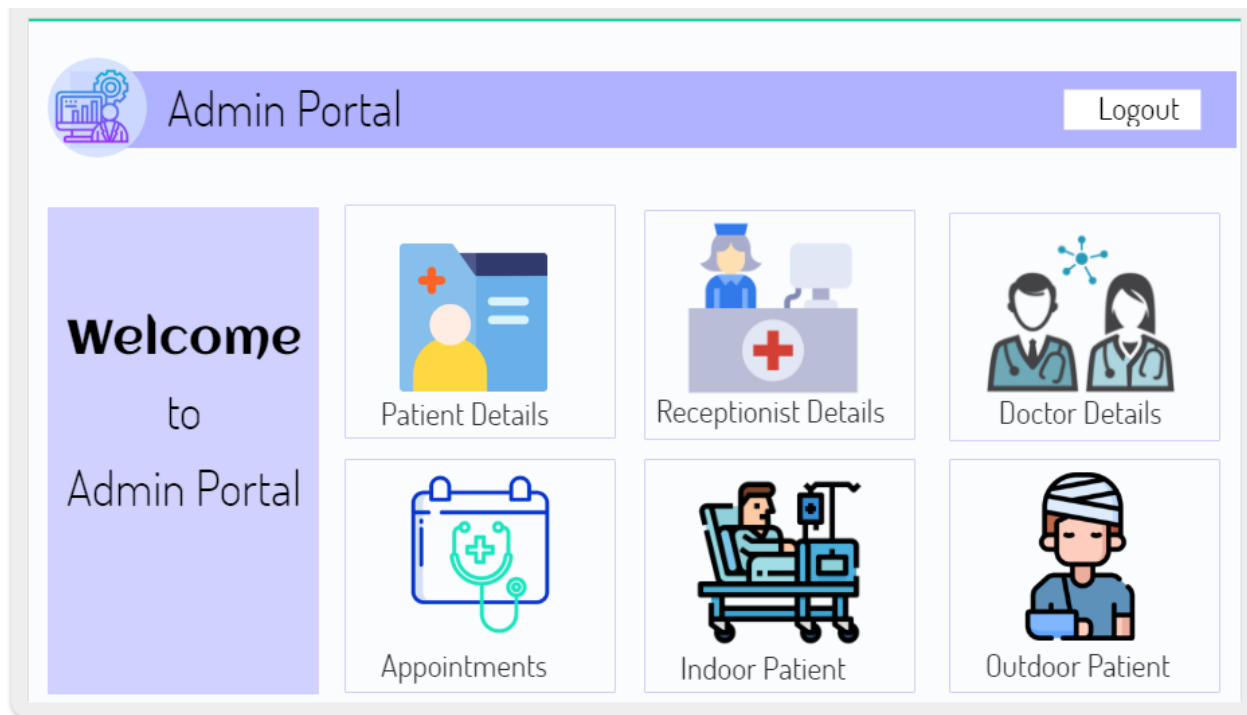
Fig. 7: Admin's portal page
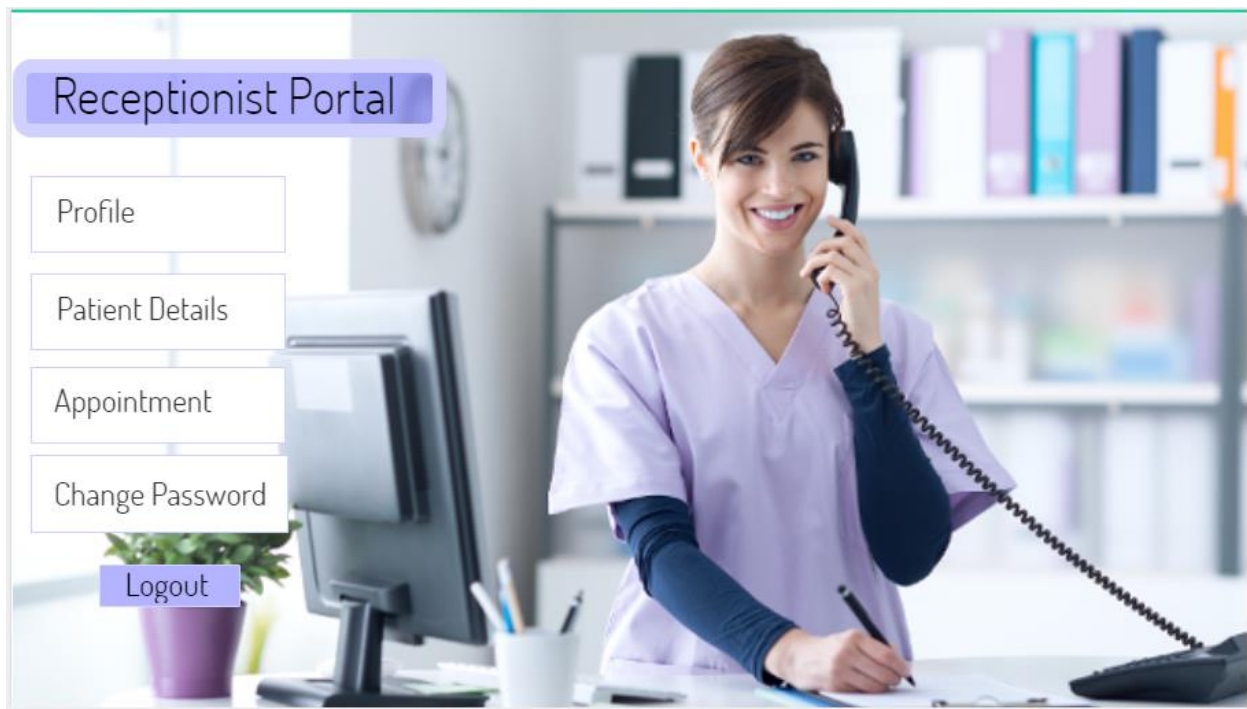
Fig. 8: Receptionist's portal page

Fig. 9: Doctor's portal page
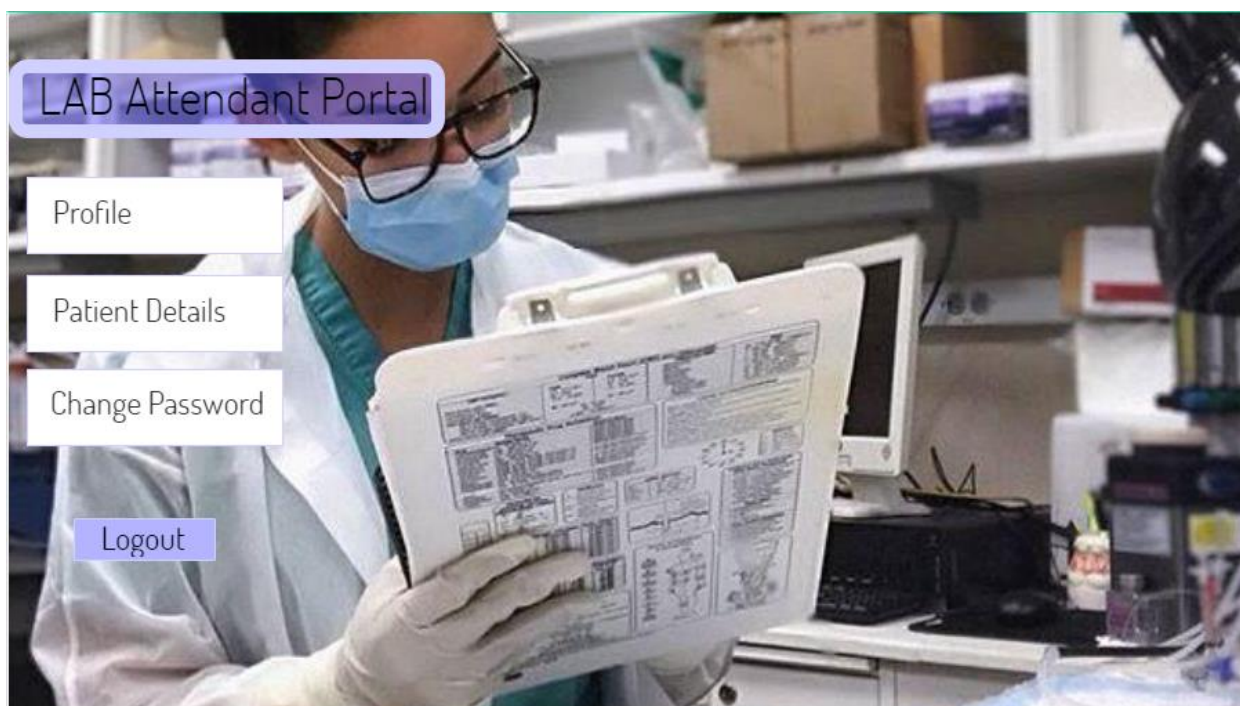
Fig. 10: Lab Attendant's portal page

Fig. 11: Add Receptionist page

Fig. 12: Delete Receptionist page

Fig. 13: Update Receptionist page

Fig. 14: Search Receptionist page

Receptionist ID	First Name	Last Name	Age	Gender	Qualification	Blood Group	Address	City	Phone No.	CNIC	Marital status	Username	Password	J. Date	L. Date
IU-23987	Islam	Aymen	21	Male	Graduated	O+	8 Al Galaa St. Aghakhan	Shoubra	022031820	2031820	Single	Aymen@21	2123	21-02-2019	-
IU-23678	Raghad	Elhael	24	Female	Graduated	AB+	El-Obour City, Industrial Zone	Cairo	2026651615	26651615	Married	Elhael@24	2412	05-03-2020	-
IU-23469	Nour	Saed	22	Male	Graduated	B-	3 Osman Abd El-Hafiz St. off Tayran St.	Nasr City	024040016	4040016	Single	Saed@22	2234	02-01-2018	14-01-2020

Fig. 15: View Receptionist page

Fig. 16: Add Doctor page

Fig. 17: Delete Doctor page

Fig. 18: Update Doctor page

Fig. 19: Search Doctor page

Receptionist ID	First Name	Last Name	Age	Gender	Specialization	Blood Group	Address	City	Phone No.	CNIC	Maritial status	Username	Password	J. Date	L. Date
IU-23987	Islam	Aymen	45	Male	surgery	O+	8 Al Galaa St. Aghakhan	Shoubra	022031820	2031820	Single	Aymen@21	2123	21-02-2019	-
IU-23678	Raghad	Elhael	40	Female	Bones	AB+	El-Obour City, Industrial Zone	Cairo	2026651615	26651615	Married	Elhael@24	2412	05-03-2020	-
IU-23469	Nour	Saed	35	Male	Mental Health	B-	3 Osman Abd El-Hafiz St. off Tayran St.	Nasr City	024040016	4040016	Single	Saed@22	2234	02-01-2018	14-01-2020

Fig. 20: View Doctor page

Fig. 21: Add Patient page

Fig. 22: Delete Patient page

Fig. 23: Update Patient page

Fig. 24: Search Patient page

| Add Patient | Delete Patient | Update Patient | Search Patient | view Patient |

View Patients

Admit Date	Patient ID	First Name	Last Name	Age	Gender	Address	City	Phone No.	Patient type	CNIC	Ward No.	Bed No.	Disc. Date
23-11-2020	IU-2311200	Adam	Ahmed	2 y	Male	Badr	Cairo	457021678	Outdoor	4571678	-	-	23-11
02-12-2020	IU-2312200	Jna	Ibrahim	3 y	Female	Mit Ghamr	Gharbia	459821768	Indoor	4521768	D-3	1	12-12
24-12-2020	IU-2314200	Roka	Mohamed	7 m	Female	Zifta	Gharbia	45398201	Outdoor	458201	-	-	24-12
29-12-2020	IU-2315200	Adn	Othman	1 y	Male	Banha	Qalyubia	453112890	Outdoor	4512890	-	-	29-12
01-01-2021	IU-2316200	Aml	Mahmoud	11 m	Female	Tanta	Al Gharbiah	451660985	Indoor	4560985	A-3	4	5-01

Fig. 25: View Patients page

View Profile

Receptionist ID	IU-23987	View

First Name	Islam	Last Name	Aymen
Age	21	Gender	Male
Qualification	Graduated	Blood Group	O+

Address: 8 Al Galaa St., Aghakhan

City	Shoubra	Phone No.	022031820
CNIC	2031820	Maritial status	Single
Username	Aymen@21	Password	2123
Joining Date	21-02-2019	Leaving Date	Still working

Fig. 26: View receptionist's profile page

Fig. 27: Edit receptionist's profile page

Fig. 28: Appointment page

Fig. 29: Diagnosis & Prescription page

Fig. 30: Successfully added patient page

Fig. 31: confirm delete patient page

Fig. 32: send message page

Fig. 33: Outpatient Billing page

Fig. 34: Inpatient Billing page