



DENTAL UNIVERSITY
HOSPITAL SYSTEM





South Valley University

Faculty of Computer and Information

Computer Science Department

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Content List

- 01 Abstract
- 02 Problem Statement
- 03 Aim & Objective
- 04 Related Work
- 05 Product Features
- 06 Results

Abstract

+ The Dental University Hospital System (DUHS) is a software solution designed to streamline and improve the operations of a dental hospital. The system aims to replace the existing paper-based system, which is disorganized and inefficient.



Problem Statement

- 1-The current paper-based system lacks organization and structure, leading to difficulties in managing patient appointments and tracking doctors' work.
- 2-The manual handling of patient appointments and records is time-consuming and prone to errors.
- 3- Teaching assistants' supervision of honors students is a completely paper-based process

+ Aim & objective

1. Appointment Management.
2. Improve Doctor and Staff Workflow.
3. Ensure System Reliability and Security.

By achieving these objectives, the DUHS project aims to transform the dental hospital's operations, increase efficiency, and enhance overall satisfaction for patients, doctors, staff, and administrators.



+ Related Work +

+ 1-Electronic Health Record Systems:

(EHR) systems have been widely implemented in healthcare settings to digitize and manage patient records. These systems provide functionalities similar to the DUHS, such as storing patient information, examination reports, and treatment plans. These systems have demonstrated the benefits of digital record-keeping, improved accessibility, and enhanced patient care.

+ Related Work +

+ 2- Hospital Management Systems:

(HMS) encompass a range of software solutions designed to streamline various hospital operations. These systems often include modules for appointment scheduling, patient registration, doctor management, and billing. These systems provide insights into how different hospital processes can be integrated and automated to improve overall efficiency

+ Product Features

The system features can be described as follows:

1- Registration:

The patient register in the system by filling his personal data before reservation in the first time, then he can reserve directly.

2-Reservation:

The patient that has a registration, he can reserve by his national id and receives a specific code and appointment based on his turn in submit.





3-Print appointment:


The patient can print his code and appointment

4-Confirm the reservation:


The receptionist confirms the reservation by paying when the patient arrives.



5- Login:



When doctor, prof, admin and receptionist are admitted in login. The data is checked if those (doctor/prof/admin/ receptionist) already registered with the system if his/her ID (identification number) is entered into the computer.



6- Enter the patient code:

The doctor enters the patient's code to display the patient's data



7-Write examination:

The doctor writes the examination of patient.

8-Add doctor:

The admin can add doctor to clinic in the system.

9-Prescribe treatment:

The doctor prescribes the treatment of patient after examination.

10-Send patient:

The doctor can send the patient to another day or clinic based on his examination

11-Add prof:

The admin can add prof to his specific clinic in the system.

12-Add receptionist:

The admin can add receptionist in the system.



Results



مستشفى الجامعة لطب الاسنان

تسجيل دخول الموظفين

تسجيل دخول المرضى

حجز معاد

Login Page

DUHS

UserName:

MohamedMohamed123

Password :

.....|

login

Change Password Page



 New Patient

 Change Password

 Logout

Change Password

Current Password



New Password

123e@s



Confirm Password



Ok



 New Patient

 Change Password

 Logout

Change Password

password updated successfully O^O

OK

Current Password



New Password

123a@S



Confirm Password



OK

Patient Pages

1-Register Page

ادخل بيانات المريض

ادخل الاسم رباعي

على احمد حسن محمد

الرقم القومي

30111185900188

تاريخ الميلاد

11/17/2001



رقم الموبايل

01523405178

النوع

ذكر

Submit

Patient Code

كود المريض:

O 1 Q I R I P A

طباعة

الدخل الرقم القومي

30111185900188

حجز معاد

كود الحجز :

M U O P 1 Q O 0

الحضور :

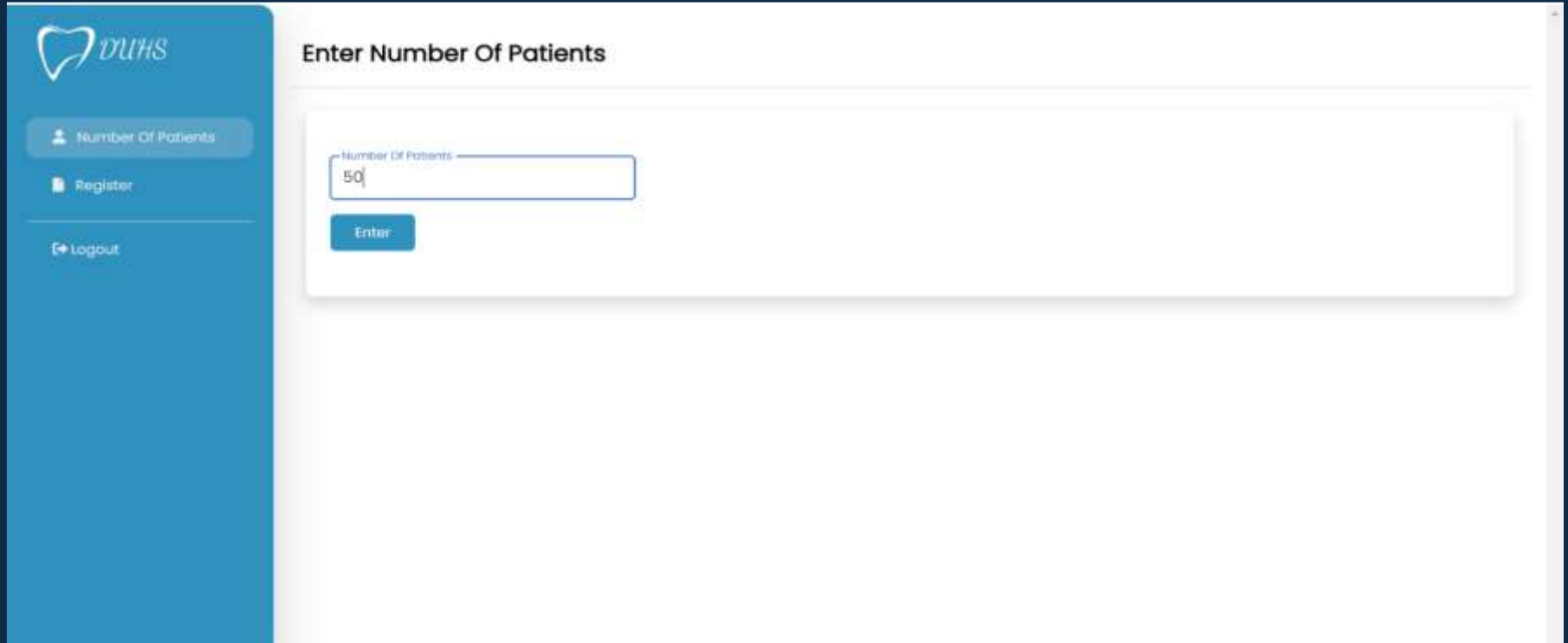
من الساعة 8 الي الساعة 11

طباعة



Admin Pages

Number of Patients Page



The screenshot shows a web application interface for DUHS (Dental University Health Services). On the left is a blue sidebar with the DUHS logo and three menu items: 'Number Of Patients' (selected), 'Register', and 'Logout'. The main content area is white and titled 'Enter Number Of Patients'. It contains a text input field with the label 'Number Of Patients' and the value '50'. Below the input field is a blue 'Enter' button.

DUHS

- Number Of Patients
- Register
- Logout

Enter Number Of Patients

Number Of Patients

50

Enter



 Number Of Patients

 Register

 Logout

Enter Number Of Patients

Number Of Patients

50

Enter


This page says

number of patient added successfully

OK

Add Users

Add Receptionist



Number Of Patients

Register

Logout

Create Account

Role

Receptionist

Name

Asmaa Mohammed Ali Ahmed

SSN

30111782700196

User Name

AsmaaMohammedI2

Password

123A@s

Phone

01523405178

Enter



 Number Of Patients

 Register

 Logout

Create Account

This page says

Registration completed successfully

OK

Role

Receptionist

Name

Asmaa Mohammed Ali Ahmed

SSN

30111782700196

User Name

AsmaaMohammed12

Password

123A@s




Phone

01523405178

Enter

Add Doctor



Number Of Patients

Register

Logout

Create Account

Role
Doctor

Name

SSN

User Name

Gender
Male

Email

Clinic
Fixed prosthodontics


Password

Type
6 Month

Phone

Enter

Add Professor



Number Of Patients

Register

Logout

Create Account

Role
Professor

Name

SSN

User Name

Gender
Male

Password


Clinics
Fixed prosthodontics

Phone

Enter

Receptionist Pages

Confirm Page



New Patient

Change Password

Logout

Enter Patient Code

Patient Code

Enter a Patient Code

Confirm

Doctor Pages

Diagnosis Doctor Pages

Patient Code



The screenshot shows a web application interface for DUHS. On the left is a blue sidebar with the DUHS logo and three menu items: 'New Patient' (with a person icon), 'Change Password' (with a gear icon), and 'Logout' (with a door icon). The main content area is white and titled 'Enter Patient Code'. Below the title is a light gray box containing a text input field labeled 'Patient Code' with the value 'T9C7LW22' and a blue 'Enter' button.

DUHS

New Patient

Change Password

Logout


Enter Patient Code

Patient Code

T9C7LW22

Enter

Patient Health Profile



New Patient

Change Password

Logout

Enter Patient Health Profile

Medical History

no Medical History

Dental History

No Dental History

Diagnosis

Diagnosis

Clinics

Fixed prosthodontics

Fixed prosthodontics

Removal prosthodontics

Restorative

Periodontics

Endodontics

Pedodontics



 New Patient

 Change Password

 Logout

Enter Patient Health F

sent successfully

OK

Medical History

no medical history

Dental History

no dental history

Diagnosis

Diagnosis

Clinics

Periodontics

Save

Clinic Doctor Pages

Patient Code



 New Patient

 Cases

 Change Password

 Logout

Enter Patient Code

Patient Code

T9C7LW22

Enter

Patient Health Profile



 New Patient

 Cases

 Change Password

 Logout

Enter Patient Health Profile

Medical History

Dental History

Diagnosis

Description


text

Treatment

treatment

Save

Cases




- New Patient
- Cases
- Change Password
- Logout

code	state
MUOPIQ00	<button>add session</button> <button>sent</button>
T9C7LW22	<button>add session</button> <button>sent</button>
AX0QNLLS	<button>add session</button> <button>sent</button>
FEW2MIFL	<button>add session</button> <button>sent</button>
BBWZLOTW	<button>add session</button> <button>sent</button>
GDNZ75T9	<button>add session</button> <button>sent</button>

Professor (Prof) Pages

View Students Page



Student

Change Password

Logout

Students
Ahmed Mohammed
Sara Ali
Moaaz Mohammed
Amira Ahmed
Mohammed Hassan



 Student

 Change Password

 Logout

Sara Ali

MUOPIQ00

T9C7LW22

AX0QNL1S

FEWZM9FL

B6WZL0TW



 Student

 Change Password

 Logout

Patient Health Profile

Medical History

Dental History

Diagnosis

Description

Treatment

Conclusion

The Dental University Hospital System (DUHS) represents a significant advancement in the management and operation of dental hospital activities. By transitioning from a disorganized and inefficient paper-based system to a comprehensive digital platform, the DUHS aims to improve organization, enhance efficiency, optimize resource allocation, and facilitate better data management and analysis,

THANKS

