

Project Specifications

Medical Appointment System

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1. Abstract

A “Medical Appointment System” is a computerized online system. This system has been developed to facilitate the appointment service through online. The patients do not require visiting the clinic for appointment or spending much time in waiting to consult. Through the online service the individuals can check the availability of Doctors (consultants), timings, and laboratory timings, charges etc. The proposed system will keep a track of available Doctors, Patients, Accounts and generation of report regarding the present status. This project will help in storing, updating and retrieving the information through various user-friendly modules. The project “Medical Appointment System” is aimed to develop to maintain the day-to-day state of admission/discharge of Patients, List of Doctors (Consultants), List of Departments, Bills etc.

2. High Level Design Specification

The project contains the following main modules.

- Registration
- Doctors Info
- Departments Info
- Medical History
- Admin
- Report

- **Registration Module**

This module allows the users to register themselves. The registered users can sign in to their accounts to schedule an appointment with a doctor or view medical history etc.

- **Doctors Info Module:**

This module allows the user to perform the task such as scheduling an appointment, check availability, browse through specialization and disease etc. The doctor’s information’s are uploaded by admin.

Once the users logged in, the following operations must be available to them.

- The user must be able to view doctor’s availability by giving date and doctor name as input.
- The user must also be given an option by giving the disease name to check the availability of doctors.

- **Departments Info Module:**

This module aims to keep track of Departments such as ENT, Dental etc. and department details such as department in charge, no. of doctors, specialization, lab & equipment etc. It allows the user to add new or modify the department data.

- **Medical History Module:**

The medical history about patients can be maintained through this module. The candidate can view their medical history. This module provides the details such as the patient name, date of visit to hospital, diagnosed information, treatment undergoing etc.

- **Admin Module:**

This module allows the admin to perform admin activities. Through this module the admin can update doctor's information, can add new department or doctors, can enter or maintain the laboratory timing, available laboratory services, charges, view registered users, generate report etc.

- **Report Module**

This module is used to generate report and must be available only to admin. The admin user must be able to view the following as a report by providing any inputs such as date, or id.

- List of registered users.
- List of doctors.
- List of Departments and number of doctors for each department.
- Number of appointments for a department, doctor or entire hospital per day or given date range.

3. Mandatory Requirements

- **User-defined exceptions must be generated.**

The following are the sample scenarios where user-defined exceptions required. Identify the other mandatory requirements and implement them.

- a. Entering Invalid user id
- b. Entering Invalid user name and password etc.

- **Primary Key and foreign key constraints must be specified in database design.**

- **Session management must be implemented.**

Session tracking or management must be properly maintained between the pages until the user log outs the session.

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4. Best Practices

The development team must follow the best practices.

1. Coding Standard

- Methods and class names must be meaningful
- Meaningful names for variables
- Meaningful names for controls. To clearly identify the controls, the controls name can start with the control name followed by their functionality name

Sample

TxtCustomerName – text field which is used to enter the customer name

BtSubmit – button to submit the fields entry

2. Validation for all the fields

- Missing of mandatory fields entry
- Entering numbers for name field etc.
- Identify the other required validation and implement them.

3. Layout design and arrangement of the controls must be proper in UI design

4. Title messages for each dialog and screen must be meaningful.

5. Deliverables Expected

- Project Documentation Report
- Database script file
- UI design document

6. Database Design

A partial database schema is given below. Additional tables or attributes may be added as per requirement. These database tables are samples only.

USER_DETAILS

Field	Description
Patient_Id	Unique Id
Patient_Name	Name of the patient
Blood_Group	Type of the blood group
DOB	Date of birth

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Gender	Gender info
Phone	Contact info
Address	Permanent address
Mail	Mail Id

DEPARTMENT

Field	Description
Dept_Id	Unique Id
Dept_Name	Name of the Dept
Dept_Head	Name of the Incharge for the Dept
Description	Dept. Specilization like ENT, Ortho, EYE, Cardiac etc.

DOCTOR

Field	Description
Doctor_Id	Unique Id
Doctor_Name	Name of the doctor
Dept_Id	Id for the department he belongs to
DOB	Date of birth
Qulfn	Qualification
Experience	Experience in no.of years
Phone	Contact info
E_Mail	Valid Mail id

MEDICAL_HISTORY

Field	Description
Patient_Id	Patient Id
Schedule_Id	Schedule Id
Diagnosis	Diagnosis given by doctor
Date_Visited	Visited date
Other_Info	Information such as scan, x-ray , ECG etc.

APPOINTMENT

Field	Description
Schedule_Id	Appointment Id
Patient_Id	Patient Id
Diagnosis	Disease name or the purpose of appointment
App_Date	Appointment Date
Doctor	Doctor name for appointment

LOGIN_DETAILS

Field	Description
User_Id	User Id
Password	Password

1. SCREEN DESIGN

User Login

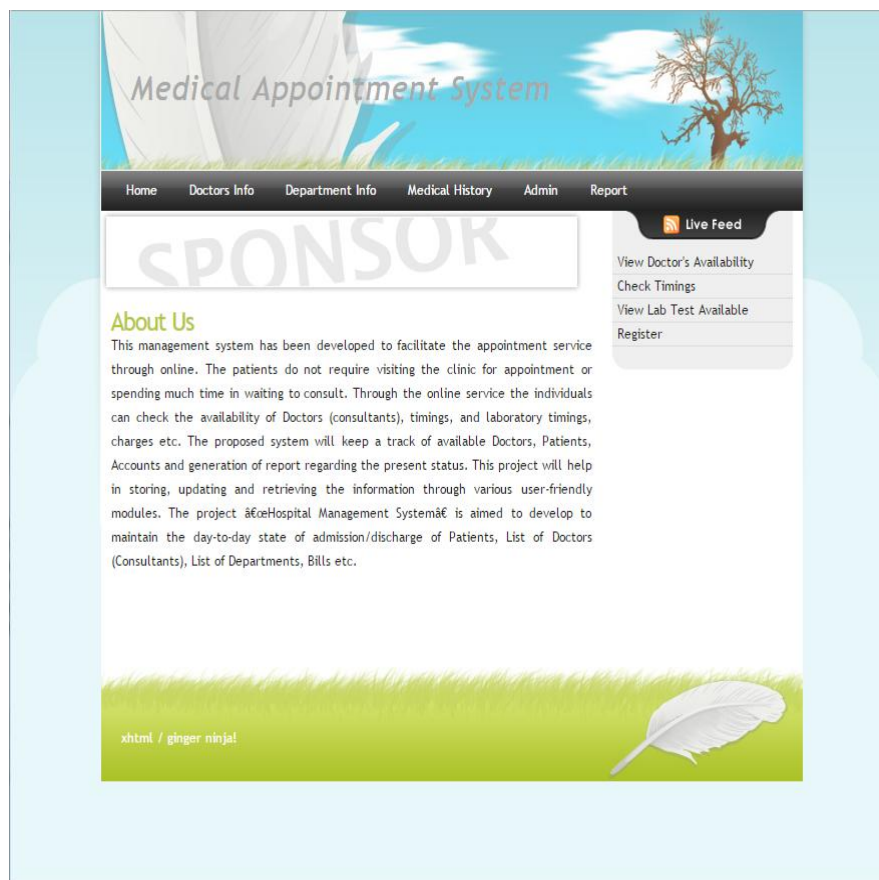
User Login

UserName

Password

[Forgot Password?](#) [New User?](#) [Quick Registration](#)

Home Page



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Department Info

The screenshot shows the 'Department Info' page of the 'Medical Appointment System'. The page has a light blue background with a white central content area. At the top, there's a header with the system name and a navigation bar. Below the navigation bar, there's a 'SPONSOR' banner. The main content area is titled 'Department Info' and contains four text input fields: 'Department No', 'Department Name', 'Description', and 'Head of the Department'. To the right of these fields is a 'Live Feed' widget with a list of links: 'View Doctor's Availability', 'Check Timings', 'View Lab Test Available', and 'Register'. The footer of the page shows the text 'xhtml / ginger ninja!' and a white feather icon on a green grass background.

Medical Appointment System

Home Doctors Info Department Info Medical History Admin Report

SPONSOR

Live Feed

View Doctor's Availability
Check Timings
View Lab Test Available
Register

Department Info

Department No

Department Name

Description

Head of the Department

xhtml / ginger ninja!

Doctors Info

The screenshot shows the 'Doctors Info' page of the 'Medical Appointment System'. The page layout is similar to the 'Department Info' page. The main content area is titled 'Doctor's Availability Info' and contains two dropdown menus: 'Timings' and 'Doctors'. Below these is a 'Description' text input field and a 'Check Availability' button. The 'Live Feed' widget on the right is identical to the one in the previous page. The footer of the page shows the text 'xhtml / ginger ninja!' and a white feather icon on a green grass background.

Medical Appointment System

Home Doctors Info Department Info Medical History Admin Report

SPONSOR

Live Feed

View Doctor's Availability
Check Timings
View Lab Test Available
Register

Doctor's Availability Info

Timings

Doctors

Description

Check Availability

xhtml / ginger ninja!

Project Specification

Registration

Medical Appointment System

Home Doctors Info Department Info Medical History Admin Report

SPONSOR

Live Feed

- View Doctor's Availability
- Check Timings
- View Lab Test Available
- Register

Registration

User Id

Password

Confirm Password

Full Name

Email Id

Date of Birth

Gender

Blood Group

Phone

Address

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Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	1	2	3	4	5

xhtml / ginger ninjal

Medical Appointment System

Home Doctors Info Department Info Medical History Admin Report

SPONSOR

Live Feed

- View Doctor's Availability
- Check Timings
- View Lab Test Available
- Register

Registration

User Id

Password

Confirm Password

Full Name

Email Id

Date of Birth

Gender ☐ Male ☐ Female

Blood Group

Phone

Address

xhtml / ginger ninjal