

**INSTITUTE FOR ADVANCED COMPUTING AND
SOFTWARE DEVELOPMENT, AKURDI**

“DOCTOR PATIENT APPOINTMENT MANAGEMENT”

PG-DAC FEB 2020

Submitted By:

Group No: 95

Shivam Pandey(1196)

Prashant Jawalkar(1182)

Mr. Prashant Karhale
(Centre Coordinator)

Mr. Akshay Parab
(Project Guide)

Table of Contents

1. Introduction	4
Aims & Objectives	5
2. Overall Description.....	6
Functionalities provided by Doctor Patient appointment are:.....	6
Benefits of Doctor Patient Appointment Management:	7
Uses and Characteristics:	7
Operating Environment:	8
3. System Diagram	9
Activity Diagram.....	9
Doctor Login.....	10
Patient Login	10
ER Diagram:.....	11
4. Table Structures :	12
Doctor Table :	12
Patient Table :	12
Appointment Table :	13
5. Conclusion :	14
Future Scope :	14
6. References :	15

1. Introduction

The doctor patient appointment management has been developed to override the problems prevailing in practicing manual system. The proposed project is a smart appointment booking system that provides patients or any user an easy way of booking a doctor's appointment online. This is a web based application that overcomes the issue of managing and booking appointments according to user's choice or demands. The task sometimes becomes very tedious for the compounder or doctor himself in manually allotting appointments for the users as per their availability. Hence this project offers an effective solution where users can view various booking slots available and select the preferred date and time. The already booked space will be marked yellow and will not be available for anyone else for the specified time. This system also allows users to cancel their booking anytime.

Problem Statement:

The hospital scheduling software can divide the timeline into necessary periods for each doctor (for example, an average appointment duration can vary from 30 minutes to one hour depending on the doctor). Nowadays its doing appointment things manually is too much tedious job and also the patient cannot regulary visit doctors.

hard to maintain the records and then keep track of past records. Hence this system is proposed to overcome the flaws of the existing system.

Product Scope:

This project involves a lot of good interaction between a doctor and the patient.

- Patient from different city can interact with doctor of different city.
- J2EE Technology used for the development of the application.
- General patient as well as the medical will be able to use the system effectively.
- Web-platform means that the system will be available for access 24/7 except when there is a temporary server issue which is expected to be minimal.

Aims & Objectives

Specific goals are: -

- To produce a web-based system that allow the doctors to interact with the patients.
- To ease the interaction even at tough times.

2. Overall Description

Doctor patient appointment management can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on keeping records. Thus it will help organization in better utilization of resources. The organization can maintain computerized records without redudent entries. Basically the project describes how to manage for good performance and better services for the clients.

Functionalities provided by Doctor Patient appointment are:

- Provides the searching facilities based on various factors such as date, time, etc.
- It tracks all the information of both doctor and the patient.
- Keeps all the appointment details with date, time, doctor, patient.
- Manages the information of booking.
- To increase the efficiency of managing the doctor, patient.
- Shows the information and description of doctor, patient.
- It deals with monitoring the information and transactions of Booking.

Benefits of Doctor Patient Appointment Management:

- This Doctor Patient Appointment Management is fully functional and flexible.
- It is very easy to use.
- It saves lot of time, money, labor.
- The application acts as a office which is available 24/7.

Uses and Characteristics:

- All the fields such as doctor, patient are validated and does not take any invalid values.
- Avoids errors in data.
- Integration of all the forms in the system.
- Avoiding errors in data.
- Controlling amount of input.

Operating Environment:

Server Side

- **Processor:** Intel® Xeon® processor 3500 series
- RAM : Minimum 8GB
- OS : Windows 10
- Database : MySQL
- HDD : Minimum 500GB Disk Space

Client Side(Minimum requirement)

- **Processor:** Intel Dual Core
- RAM : 4GB
- HDD : 80GB
- Windows : Windows 7

3. System Diagram

Activity Diagram

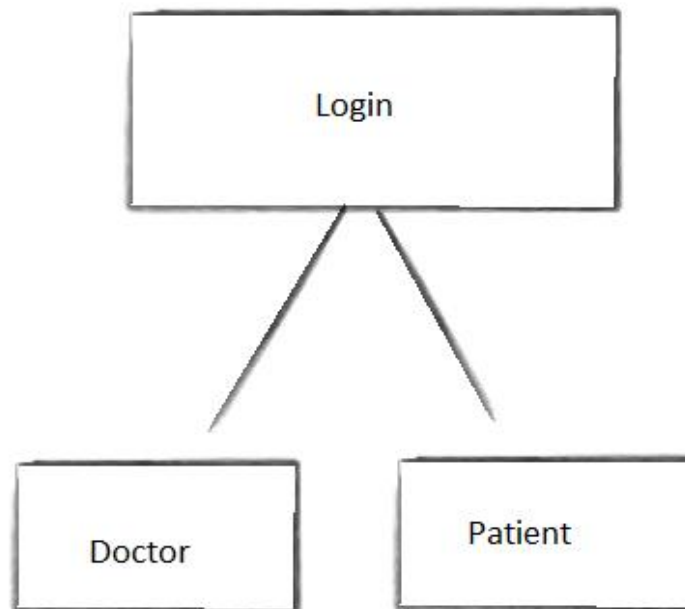


figure 1. login page

Doctor Login

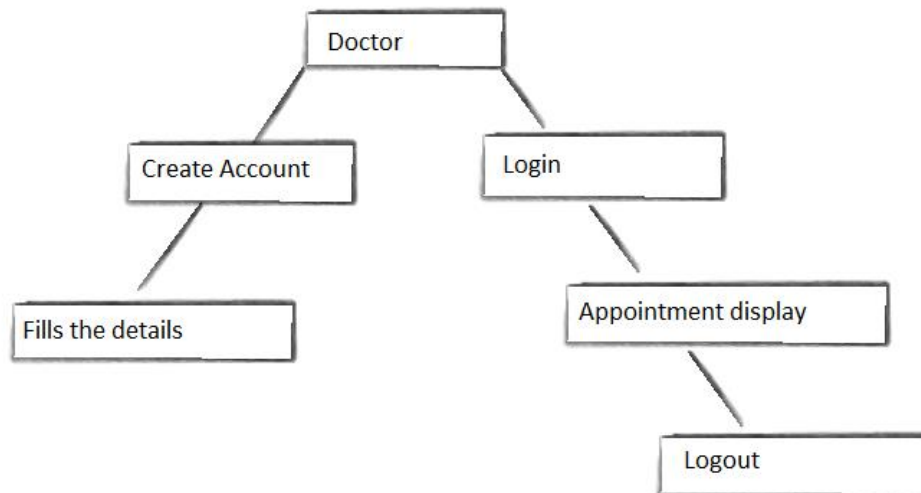


figure 2. Doctor login page

Patient Login

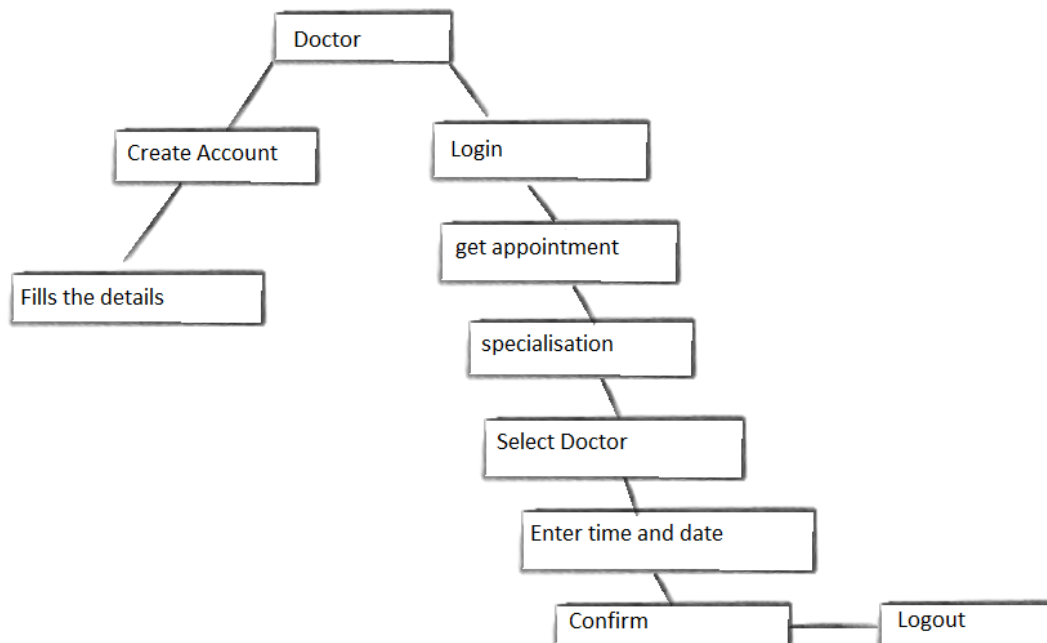


figure 3. Patient login page

ER Diagram:

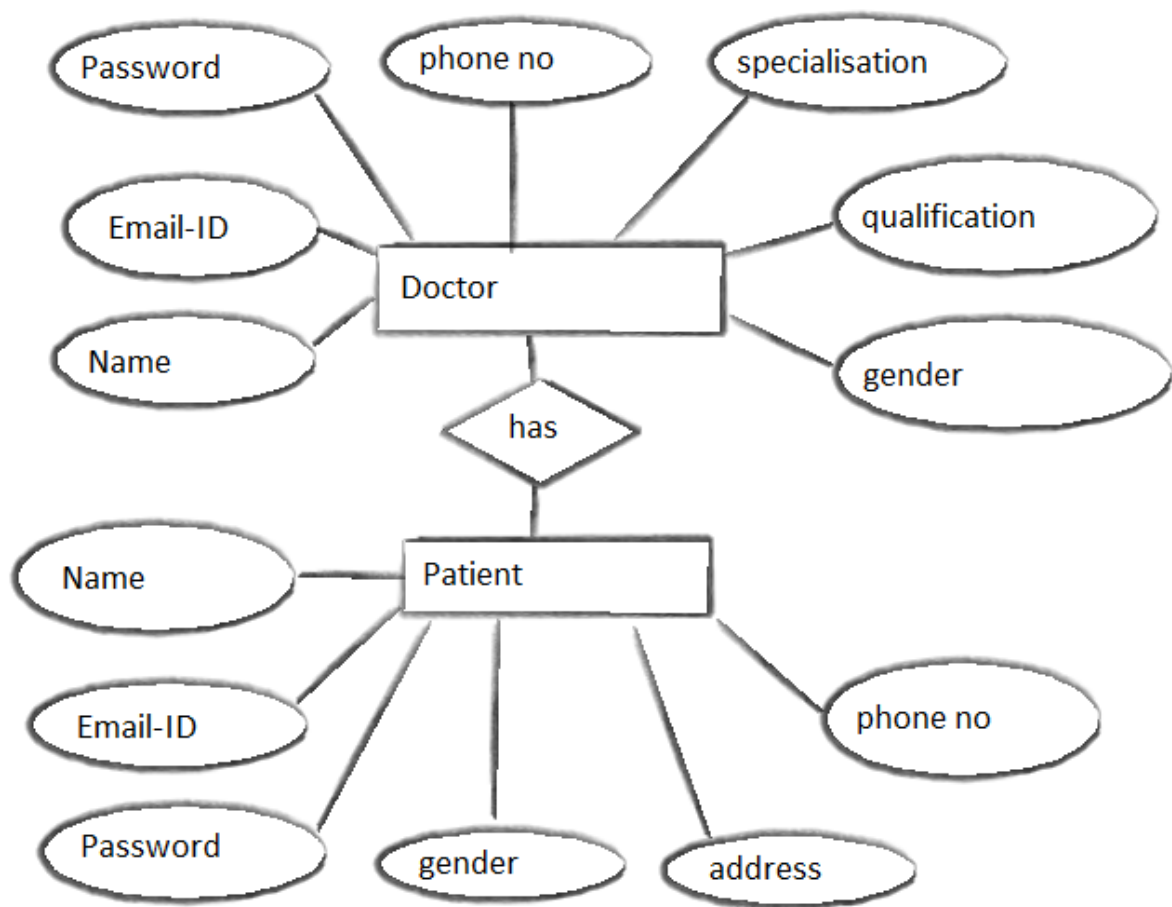


figure 4. ER Diagram

4. Table Structures :

Doctor Table :

Field	Type	Null	Key	Default	Extra
DIId	int	NO	PRI	NULL	auto_increment
daddress	varchar(20)	YES		NULL	
dname	varchar(20)	YES		NULL	
emailId	varchar(20)	YES	UNI	NULL	
Gender	varchar(255)	YES		NULL	
password	varchar(10)	NO		NULL	
phoneNumber	varchar(10)	YES	UNI	NULL	
qualification	varchar(20)	YES		NULL	
specialization	varchar(20)	YES		NULL	

figure 5. Doctor Table

Patient Table :

Field	Type	Null	Key	Default	Extra
PIId	int	NO	PRI	NULL	auto_increment
PAddress	varchar(30)	NO		NULL	
PName	varchar(20)	NO		NULL	
emailId	varchar(20)	YES	UNI	NULL	
Gender	varchar(255)	YES		NULL	
password	varchar(20)	NO		NULL	
phoneNumber	varchar(10)	YES	UNI	NULL	
AID	int	YES	MUL	NULL	
doctorId	int	YES	MUL	NULL	

figure 6. Patient Table

Appointment Table :

Field	Type	Null	Key	Default	Extra
AID	int	NO	PRI	NULL	auto_increment
ADate	varchar(255)	NO		NULL	
ATime	varchar(255)	NO		NULL	
DId	int	YES	MUL	NULL	

figure 7. Appointment Table

5. Conclusion :

Doctor patient appointment system allows a smooth interaction between the doctor and the patient. The patient can get interacted with their favourite doctor and can share the problem. It also reduces the travelling of patient to the doctor.

Future Scope :

This project can be enhanced by adding more features to make it user friendly and more efficient. Also features like cancellation policies, customizable service option, email notifications can also be added as it will be more of a user friendly application.

6. References :

1. https://www.academia.edu/26066176/Design_and_Development_of_Online_Doctor_Appointment_System
2. https://www.researchgate.net/publication/322660500_MEDICAL_APPPOINTMENT_APPLICATION
3. <https://mocdoc.in/blog/benefits-of-an-online-appointment-management-system-in-healthcare-industry>