



INSTITUTE FOR ADVANCED
COMPUTING AND
SOFTWARE DEVELOPMENT
AKURDI, PUNE

Documentation On

“Online Doctor Appointment System”

PG-DAC FEB 2020

Submitted By:

Group No: 44

Names & roll numbers

1130-Komal Dhamankar

1134-Gayatri Sharma

Prashant Karhale
Centre Coordinator

Mr. Kashinath Patil
Project Guide

Introduction

Purpose:

The purposed 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 demand and save their time as well. The task sometimes become very tedious for compounder or doctor himself to manually allocating appointments for the users as per their availability. Hence the project offer an effective solution where user's can view various booking slots available and select preferred date and time. This system also allows users to cancel their booking anytime.

Scope:

The Online Doctor Appointment System manages all the details of Doctor, Appointment, Patient, Booking, Doctor Scheduled and Doctor Fees. The system allows the patient to confirm the booking and cancel their booking anytime and give feedback.

Definitions:

ODAS --> Online Doctor Appointment System

SRS --> Software Requirement Specification

GUI---> Graphical User Interface

Portal--> Personalized Website

Stackholder--> The person who will participate in the System. And Onwer of system

Ex. Doctor, Admin , Patient

UML---> Software Engineering Notation for visualising System in the form diagrams

SSL---> Secure Socket Layer used for providing restricted access to application.

BOD---> Board Of Directors (Management).

RDBMS --> Relational Dadabase Management System. CLUSTERS----> Group of independent servers.

Overview:

This System provides an easy solution to Patient to take appointment of a Doctor online on their availablity and Doctor can also see the patient request and feedback.

Additional Information:

The system work on internet server, so it will be operated by any end user for the booking purpose with secure platform. This system protects the integrity of the Doctor and Patient, provides easy booking and cancellation policies.

General Description:

The Online Doctor Appointment application helps to manage Doctor details, Patient details and booking details. The online Appointment system will use the internet as the sole method for taking the appointment based on the available time and date of a doctor.

Functional Requirement:

This section provides requirement overview of the system. Various functional modules that can be implemented by the system will be-

User side functionality

- >Register and login
- >search doctor
- >Book Appointment
- >FeedBack
- >Cancellation

Admin side functionality

- >Add Doctor
- >Remove Doctor
- >View User data
- >Feedback View and Reply
- >Cancellation

Application Architecture:

Application = Logic + data

Logic =(UI Logic + Business Logic + DataAccess Logic)

Data =(structured data , Non Structured data)

Online Application:

Web based Application

deployed on web and accessed by user from anywhere

Online Doctor Appointment System-----Web portal-- used remotely by Patient, Doctors,Admin

Logic:

UI Logic:

Web Pages + HTML controls + Web Components (Angular)

Navigation : (UI Routing) HTML Links, Routing mechanism

Data Binding : DOM + JSP tags (JSTL) + {{}} ngModel,

Event Binding : action handlers

HTTP Request:

GET:-----Doget

POST:-----Dopost

PUT:

DELETE:

Client Side UI-----HTML, CSS, JavaScript, bootstrap

UI (Client Side UI Framework)

Angular, React, Vue,.....

Web Logic: (Server Side processing)

Server UI----- JSP, servlet, (classical java web technology)

spring MVC (to take advantage of MVC design Pattern using ready made framework)

Model, View, Controller

Router

(SOA layer)

Spring Boot api

CRUD REST API

ORM Technique:Hibernate (ORM)

,JPA

JDBC (database Connectivity)

State management

Client Side state management---->

cookies, querystring, form collection, hidden variable local storage, session storage, Web sql,

Server Side state management---->session, Cache,database

Business Logic:

Java console application will be used to test your business Logic

Core Java:

will contain

- 1.business query processing
- 2.business operation managment
- 3.Business data manipulation

online Doctor Appointment System Modules-

1)**Admin login**- The system in under supervision of admin who manages the booking made and add doctors.

2)**login/registration**-User have to first register themselevs to login into the system.

3)**Appointment availabilty check**- user can check the availability.

4)**Appointment booking online for date and time**-User can book appointment for their required date and time.

5) **Email on appointment booking**-when user is successful in appointment confirmation then confirmed mail sent to user.

6)**Booking cancellation**-User may cancel their booking by login into the system anytime.

7)**Feedback**-The System has a feedback form,where user can provide feedback into the system.

Database :

Structured Data

RDBMS =MySQL

1)Admin

id ,first_name,last_name ,email ,password ,contact_no

Primary key --->id

2) patients

patient_id ,firstname,Lastname,email ,password ,dob
,address ,phone ,gender

Primary key ---> patient_id

3) doctor specialization

spec_id ,name

Primary key ---> spec_id

4)doctor

doctor_id ,first name ,last name ,email ,password,dob
,address ,phone ,gender ,fees,specialization_id

Primary key ---> doctor_id

Foreign Key---->specialization_id

5)doctor availability

id ,doctor_id ,day_in_week ,starting_time ,
ending_time ,open_for_day ,minutes_for_patient

Primary key ---> id

Foreign Key----> doctor_id

6)appointments

appointment_id ,patient_id ,doctor_id ,appointment_status_id
,starttime ,appointment_date ,

Primary key ----> appointment_id

Foreign Key ---->patient_id

Foreign Key ---->doctor_id

Foreign Key --->appointment_status_id

7)appointment status

appointment_status_id ,status

Primary key ----> appointment_status_id

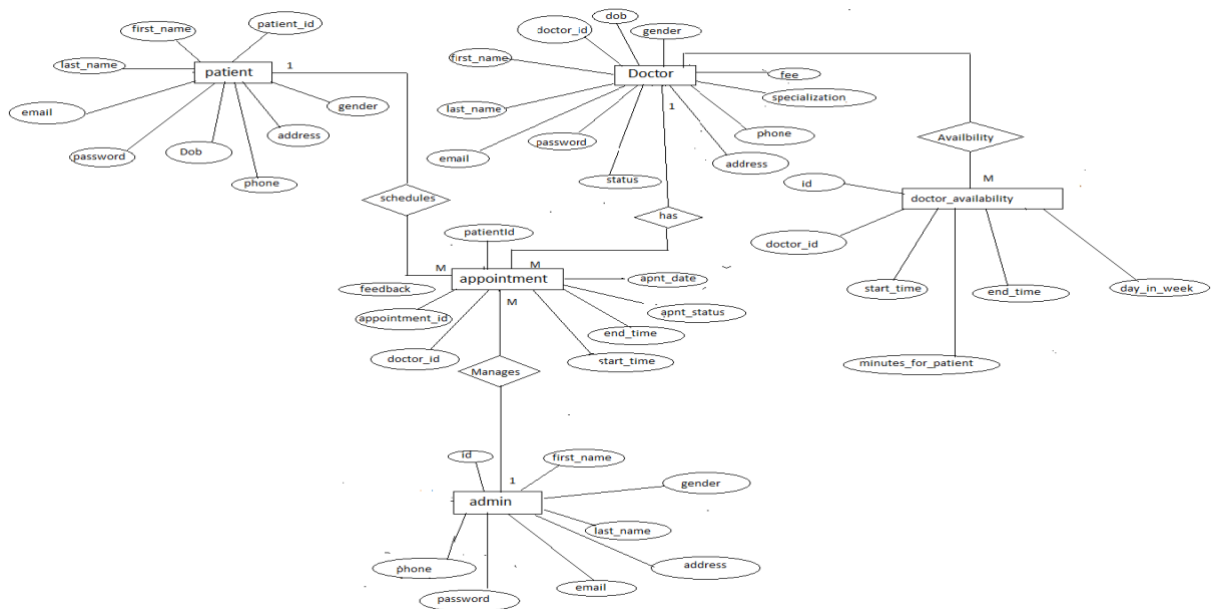
8) feedbacks

id int(5) ,appointment_id ,message

Primary key ----> appointment_status_id

Foreign Key ----> appointment_id

Er-Diagram



Use Case Diagram



Class Diagram

