

## Exercise: Doc4u.com

### Introduction

Doctor Appointment Booking: A place where patients can search and book appointment from preferred doctor/hospital.

- Build few screens for Doctor Appointment Booking system.
- System needs to store all the details being displayed.
- Customer can search & book an appointment

(Self-Learning: you can take inspiration from Practo website).

### Functional Requirements

#### List of Screens

- Screen 1(Home Page)
- Screen 2(Hospital List)
- Screen 3(Doctor List)
- Screen 4(Doctor Info)
- Screen 5(User Details Screen)
- Screen 6(Booking Summary Screen)
- Screen 7(Report Screen)
- Screen 8(Customer/Admin Registration Screen)
- Screen 9(Customer/Admin Login Screen)

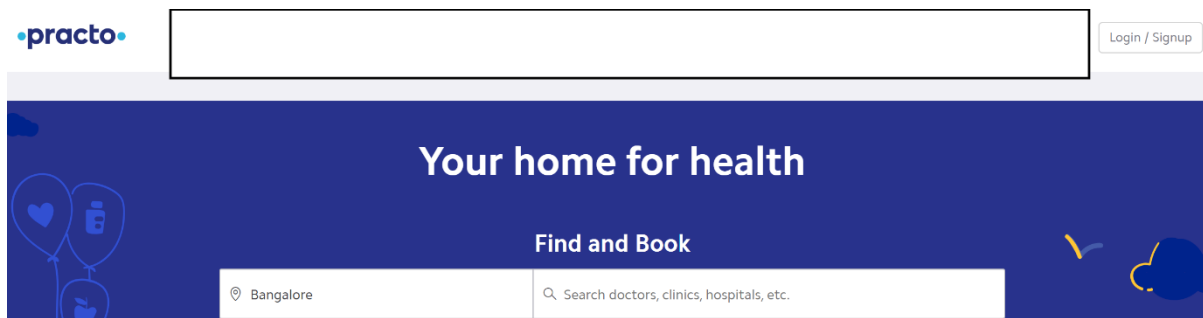
#### Screen Details

##### #1 Home Page

##### Customer Flow

- Should contain Sign-Up & Login buttons.  
Sign-Up re-directs user to “User/Admin Registration Screen”  
Login re-directs user to “User/Admin Login Screen”
- Should contain a drop-down where user can select a location.  
Should contain a search box where-in user can enter either search for a Hospital, Specialization or Doctor.  
Searching only with Hospital name re-directs user to “Hospital List Screen”  
Searching only with Specialization name or with Doctor Name re-directs user to “Doctor List Screen”  
Clicking on Search with no input re-directs user to “Hospital List Screen” with list of Hospitals provided.

#### Screenshots




## #2 Hospital List Screen

### Customer Flow

- This screen should display Hospital list with some basic Hospital info along with specializations provided in the hospital.
- Clicking on any specialization will again take the user to Doctor List screen.

### Screenshots



**Apollo Hospital**  
4.0 ★ ★ ★ ★ ☆ (1137 patient stories)  
Bannerghatta Road, Bangalore  
Multi-Speciality Hospital • 295 Beds • 81 Doctors  
Wheelchair accessibility available

Call Now


OverviewProcedures(515)Stories(1137)Doctors(81)ServicesQuestions

- Claudication pain
- Deep vein thrombosis - DVT
- Thoracic Outlet Syndrome
- Mesenteric Ischemia





[View all \(26\)](#)

- Diabetic Ulcer Treatment
- Filter placement for deep bone thrombosis
- Arterial Durobosis

- Aortic Aneurysm
- Cerucial rib
- Arterial Occlusion



**Apollo Speciality Hospitals**  
Multi-Speciality Hospital  
47 Doctors



3.5 ★ ★ ★ ☆ ☆


238 Stories

MON-SAT  
08:00 AM-08:00 PM





Jayanagar

View Profile

Call Now



**Apollo Hospitals**  
Multi-Speciality Hospital  
56 Doctors



3.5 ★ ★ ★ ☆ ☆

298 Stories

MON-SAT  
09:00 AM-06:00 PM

Seshadripuram

View Profile

Call Now

## #3 Doctor List Screen

### Customer Flow

- User can be navigated to this screen in 2 ways.
  - By searching for any specialization from Home page.
  - By clicking on any Specialization in Hospital List Screen.
- This screen should display Doctors available for those specializations.
- Clicking on any doctor will again take the user to Doctor Info screen.

## Screenshots

**Dr. Bipin Chandra Reddy**  
Dentist  
22 years experience overall  
New Thippasandra, Bangalore • Tooth Affair + 11 more  
₹300 Consultation fee at clinic  
ON-CALL  
Contact Clinic  
95% 84 Patient Stories

**Dr. Nikhar Ravinder**  
Dentist  
20 years experience overall  
Whitefield, Bangalore • Dentalign  
₹600 Consultation fee at clinic  
Available Tomorrow  
Book Appointment (No Booking Fee)  
Video Consult  
99% 367 Patient Stories

Show doctors near me

**Dr. Sunny Soni**  
Dentist  
11 years experience overall  
Nagawara, Bangalore • Aesthetic Dental Clinic + 3 more  
₹500 Consultation fee at clinic  
Available Today  
Book Appointment (No Booking Fee)  
99% 91 Patient Stories

## #4 Doctor Info Screen

### Customer Flow

- User can be navigated to this screen in 2 ways.
  - By searching for any doctor from Home page.
  - By clicking on any doctor in Doctor List Screen.
- Doctor screen with Doctor Info (along with his hospital & specialization) and appointment availability options to book appointment.
- This screen should display doctor info like his experience, hospital & specialization.
- A list of available time slots needs to be displayed so that customer can click on any of the slots to proceed with appointment booking process.

## Screenshots

**Dr. Nikhar Ravinder** Profile is claimed  
BDS, MDS - Orthodontics and Dentofacial Orthopaedics  
Orthodontist, Dentist, Dental Surgeon, Dentofacial Orthopedist  
20 Years Experience Overall (17 years as specialist)  
Medical Registration Verified  
99% (1121 votes)  
Dr. Nikhar Ravinder is a member of the prestigious American Association of Orthodontists and World Federation of Orthodontists. She graduated from Manipal unive [more..](#)  
[Share your story](#)

**VIDEO CONSULTATION** ₹ 600

Today: No Slots Available | Tomorrow: 1 Slot Available | Thu, 28 Jul: 6 Slots Available

**Morning (2 slots)**  
10:15 AM | 11:00 AM



**Afternoon (4 slots)**  
12:00 PM | 12:15 PM | 12:30 PM | 12:45 PM

## #5 User Details Screen

### Customer Flow

- Clicking on any Time slot on Doctor Info screen will navigate the user to this screen.
- User should have an option to provide some personal info in this screen. Info like Patient Name, Age, Comments on his complaint, mobile number, mail ID can be captured.
- If a user is logged-in, his info should automatically be captured.
- Once all the required info is entered, user will click on “Book Appointment” button.

## Screenshots

|   |  |
|---|--|
|  <b>Video Consultation</b><br>Includes Audio, Video and Chat   | <h3>Enter your mobile number</h3> <p>Mobile*</p> <input type="text" value="Mobile Number"/> <p>You will receive an OTP shortly.<br/>We will send appointment-related communications on this number.</p> <p><b>Continue</b></p> |
| <p>📅 On Jul 28, 2022      ⌚ At 11:00 AM</p> <p><a href="#">Change Date &amp; Time</a></p>   |  |
|  <p><b>Dr. Nikhar Ravinder</b><br/>BDS, MDS - Orthodontics and Dentofacial<br/>Orthopaedics<br/>Orthodontist, Dentist, Dental Surgeon,<br/>Dentofacial Orthopedist</p> |  |

## #6 Booking Summary Screen

### Customer Flow

- This is a confirmation page which informs user that booking has been made.
- Booking Summary should be displayed.  
Booking summary includes the appointment date & time, hospital address, relevant contact info and a unique reference number.
- An assistant doctor & a nurse who are available in the same hospital should be assigned to this case. This information should also be displayed on this screen.
- Print to PDF option should be provided.

## Screenshots

None

## #7 Report Screen

### Customer Flow

- A screen to display Report which provides info on the following:
  - No: of appointments taken up by a doctor on a given day.
  - Hospital occupancy info on a given day.
  - No: of patients who have taken appointments on a certain specialization on a given day.
  - No: of patients who visited the hospital on a given day in the given time frame.
  - Displays the Doctor, Assistant Doctor & Nurse names for any given patient.

## Screenshots

None

## #8 User/Admin Registration screen

### Customer Flow

- Customer/Admin Registration screen needs to be built which captures some basic personal info about the user.

## Screenshots

[Log in](#)

[Register](#)



**Join Practo**

Are you a doctor? [Register Here](#)

Full Name

Full Name

Mobile Number

+91(IND) ▼

Mobile Number

Create Password

Password

☒ Receive relevant offers and promotional communication from Practo

By signing up, I agree to [terms](#)

Send OTP

### #9 User/Admin Login Screen

#### Customer Flow

- Login screen with regular User ID & Password info.
- Password should be encrypted while saving in database.

## Screenshots

[Log in](#) [Register](#) ×

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Mobile Number / Email ID

Mobile Number / Email ID

Password

Password

☒ Remember me for 30 days [Forgot password?](#)

☐ Login with OTP instead of password

Login

## Team Split: 5 people in a team

### Requirements Phase

- You need to interact with each other about the functionality in detail, the error scenarios.
- Check the Practo website thoroughly and note down the requirements for each screen.
- Provide a description not exceeding 10 lines about the functionality present/being built, call out error scenarios.

### Design Phase

- Create an ERD
- Determine what values need to be stored for each entity and determine suitable
  - a. primary keys
  - b. foreign keys
  - c. indexes
- Decide what entities we need to consider in a data model
- List down the assumptions does your model make?
- List down the information in the text was irrelevant to your design?
- List down any further restrictions might you want to apply to the data?
- Identify Business Functions
- List down all the queries that you need for queries/stored procedures etc., as per your need.

### Coding

- You need to make the 4 pages mentioned in Functional requirements section.
- You need to build all services required to handle the functionality and error scenarios.
- Write search, add, edit, delete Stored Procedures for each of the business function.

### Testing

- Set-up Test Data (manual or script or bulk upload thru excel)
- Perform full end to end testing with different scenarios.

- We will do Acceptance Testing based on this document.
- Discuss among yourselves on the requirements and prepare manual Test cases.

#### Solution submission

- a) Project Code Folder (entire .Net code + SQL Code)
- b) Functional Requirements Document
- c) ER Diagram
- d) A screen share/video to show the working prototype

Note – all the deliverables can be uploaded (without zipping) to their personal github and can share the links with us.