

Hospital Management System



American International University- Bangladesh

CSC 3222: Web Technologies

CO1.1 and CO2.1 Evaluation

Project Report

Fall 20-21

Project Title: Hospital Management System

Section: C

Student Name	Student Id
ZAHIRUL HAQUE KHAN	17-33725-1
DIN MOHAMMAD DOHAN	17-34465-2
FERDOUS, JANNATUL	17-34717-2
NAZIBUL HAQ	18-37166-1

Hospital Management System

Introduction:

Online hospital management system is a single cloud hospital management system for patients and hospital products (medical, management). The primary purpose of this design is to make the hospital experience better than what we currently have. The hospital is a place where no one wants to visit you voluntarily, but there are times when we need to. The old hospital system is not very user friendly. The first big Stem stands in line for long hours. There are many other problems makes your hospital experience bad. Our main goal is to make people's lives easier at the time of need. We are working on the design of a system that significantly reduces of paperwork and save time. There is no doubt that our existing systems do not provide us with the ability to verify our information relating to our hospital documents and other important documents, for example prescriptions and tests reports. If these documents are close to us, we can at least be at peace. We no longer have to worry about keeping these reports and of course that will help. we're the best at losing those precious documents and getting into trouble. The the relief will be enormous, as will the profit. Hope this gives us the advantage What are we waiting for.

Background Study:

<https://virtualconsult.askapollo.com/online-doctors-consultation/>

AskApollo is one of the online hospital management websites. We can login the system and book the appointment and consult with a doctor. We can directly contact with them. But this web site has some authentic issue and that is, anyone can enter the system and booking appointment. Registration is not mandatory.

Requirement Analysis:

Four types of user:

1. Admin
2. Doctor
3. Patient
4. Receptionist

Common Features for all user:



Hospital Management System

1. All users can Login to the system
2. Can register to the system.
3. Can manipulate their profile information (edit-delete-view etc.)

Admin User Functionality:

1. Can add into Doctor & Assistant list
2. Can verify profiles -- Can block profile
3. Can manipulate booking information (edit-delete-view etc.)

Doctor Functionality:

1. Can add into the list
2. Can edit information
3. Can contact system

Patient Functionality:

1. Can look for specialist
2. Can check the available time for booking appointment
3. Book the appointment date & time for specific doctor
4. Can ask for suggestions

Receptionist Functionality:

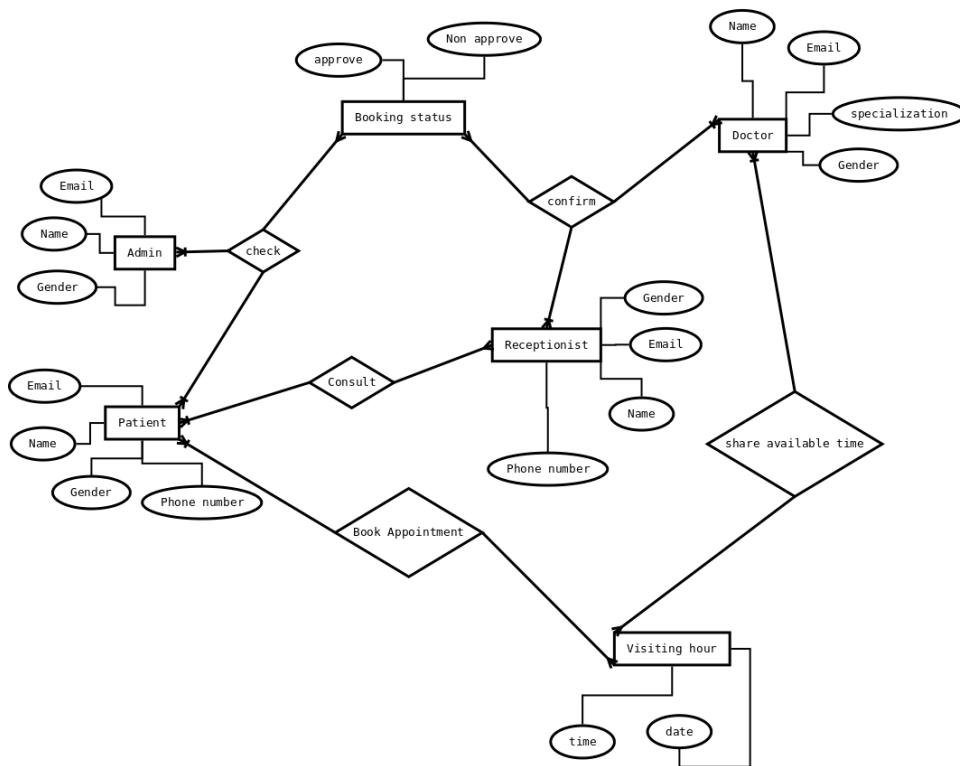
1. Can check the appointment booked
2. Can update the list
3. Can contact system admin

Design:

ER diagram of the project.



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Tools Used:

To develop this project, we have used the following:

- Dia for ER diagram
- Xampp for localhost and database
- VScode for coding

System Images against the Specification:



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CONSULT WITH
PROFESSIONALS

LOGIN

SIGN UP

BOOK
APPOINTMENT

Hospital address





www.website link





HOSPITAL MANAGEMENT SYSTEM APPOINTMENT BOOKING


Sign Up


 User Name...


 Password...


 Email Address...

 Confirm Email...

 Address...

 Zipcode...

 Phone Number...

 Mobile Number...

What does this equal? 3 + 2


SIGN-IN NOW



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CNVFILLM FF1

User Login



Email Id


Password

Login

[Forgot Username / Password?](#)


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CANVA STORIES


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USER | DASHBOARD

User / Dashboard

 My Profile
[Update Profile](#)

 My Appointments
[View Appointment History](#)

 Book My Appointment
[Book Appointment](#)

USER | BOOK APPOINTMENT

User / Book Appointment

Book Appointment

Doctor Specialization

Doctors

Consultancy Fees

Date

Time

eg: 10:00 PM



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DOCTOR APPOINTMENT BOOKING

View Doctor View Customers View Appointments View Feedback Logout

Customer Details

Cust ID :- Search

UID	Name	Address	Mobile	Email	Sex	Age
1001	Amish	Andheri	9076613214	vora@gmail.com	Male	21
1002	ABC	Malad	9076613216	vora@gmail.com	Male	22

DOCTOR APPOINTMENT BOOKING

View Doctor View Customers View Appointments View Feedback Logout

Doctor Details

DId	Name	Address	Mobile	Cate
101	Amit	Andheri	9076613214	Heart
102	Mit	Malad	9076613216	Heart
103	ABC	Malad	9076613214	Bone
104	PQR	Malad	9076613214	Bone
105	Aakash	Malad	9076613214	General Physician
106	Punit	malad	9076613214	General Physician



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Impact of this Project:

A patient must have confidence in the competence of his doctor and must feel that he can trust him. For most doctors, it is important to establish a good relationship with the patient. Some medical specialties, such as psychiatry and family medicine, place more emphasis on the doctor-patient relationship than others, such as pathology or radiology. The quality of the patient-physician relationship is important to both parties. The better the relationship in terms of mutual respect, knowledge, trust, shared values and perspectives about disease and life, and time available, the better will be the amount and quality of information about the patient's disease transferred in both directions, enhancing accuracy of diagnosis and increasing the patient's knowledge about the disease. Where such a relationship is poor the physician's ability to make a full assessment is compromised and the patient is more likely to distrust the diagnosis and proposed treatment, causing decreased compliance to actually follow the medical advice. In these circumstances and also in cases where there is genuine divergence of medical opinions, a second opinion from another physician may be sought or the patient may choose to go to another physician. Additionally, the benefits of any placebo effect are also based upon the patient's subjective assessment (conscious or unconscious) of the physician's credibility.

Limitations and Possible Future Improvements:

Due to some limitations, the entire user registration process will be performed by the managements. The home registration will be available soon. Users will be restricted to create multiple user accounts. This can be done by picking up your phone. number when registering. The number will be verified after that to become



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clear if this number belongs to you or not. Do not check the number will cause registration to fail. This will help reduce pressure on database and server.

There will be strict restrictions for individuals when registering. They must provide your national identification numbers. This will ensure that a person does not any unusual account. Each national identification number will be verified manually, these accounts will be activated. Multiple accounts are not possible at all. Even for doctors, they won't be able to register as patients. Is It will also help create a database for people with their complete disease history. and also, your family records.

Another important aspect is the privacy of the people. People want privacy and this idea is respected throughout the world. Our privacy is also considered very fundamental human right. Data availability does not mean that all you will be able to see other people's data. Only registered physicians can verify certain data under strict conditions. If the conditions are not met, It will not be allowed to verify the data of any user.

There is a plan for premium users with charge. This feature will allow priority service and other extraordinary services like live webcam sessions with desired doctors in the emergency room. People will find it very beneficial at the end of the day.

Future Work:

- ☐ Modify as a web application targeting all doctors.
- ☐ A doctor will get 250mb initial space.
- ☐ They have to pay for additional cloud storage to save details for their patients (Example: Prescriptions, Test Reports).
- ☐ A mobile application to make things easy and bring them closer.

CO1.1 and CO2.1Evaluation: Project Report Evaluation					
Project Proposal (5)	Background Study (5)	Requirement Analysis (5)	Entity Diagram (5)	System Images against the Specification (5)	Total (25)

