

## Objective:

- To provide user-friendly interface for patients
- To provide accurate, up-to-date information about the hospital's services, departments, doctors
- To implement an easy-to-use appointment booking system
- To provide emergency contact information for critical situations
- To ensure the website is responsive and accessible on various devices, including smartphones and tablets

## Introduction:

An internet presence has become an essential asset for hospitals seeking to provide comprehensive care, streamline patient interactions, and extend their reach to the community they serve. Our website, a gateway to the digital world, offers an array of vital services and information designed to empower patients, and the community. From providing information about our dedicated medical professionals and specialized departments to offering transparent service fees, convenient appointment booking, essential diagnostics services, and the latest news and events, our website strives to be a beacon of accessible healthcare information.

## Required Language/ Software:

- HTML
- CSS
- PHP
- Visual code studio

## Proposed Website Design:

- Flow chart:

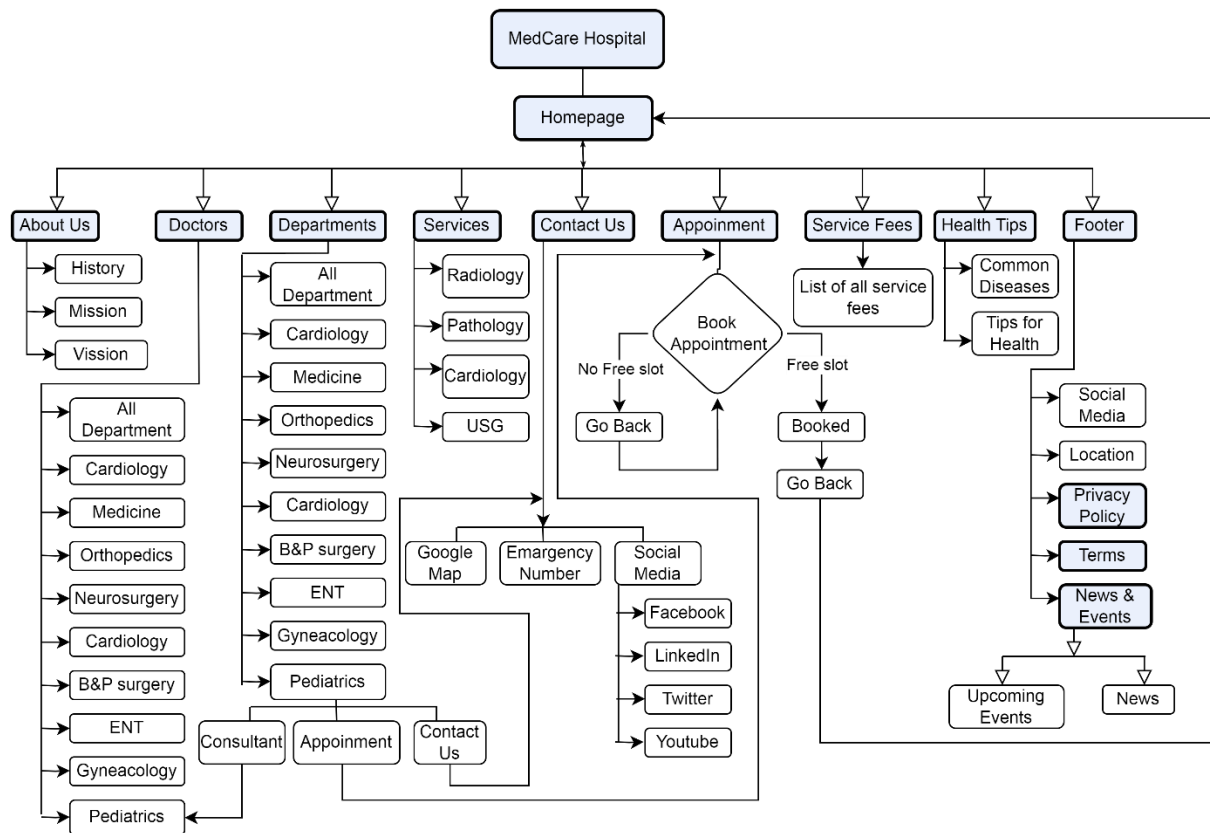


Figure 1: Flow-chart of the website

- Homepage:

**Purpose:** The home page serves as the main entry point to our website, providing an overview of what the hospital offers.

**Functionality:** It includes a welcoming message, images, and quick links to other sections such as about, doctors, appointment, departments etc. to help users navigate the site efficiently.

**Enhances User Experience:** It provides a user-friendly introduction and allows visitors to quickly find the information they need.

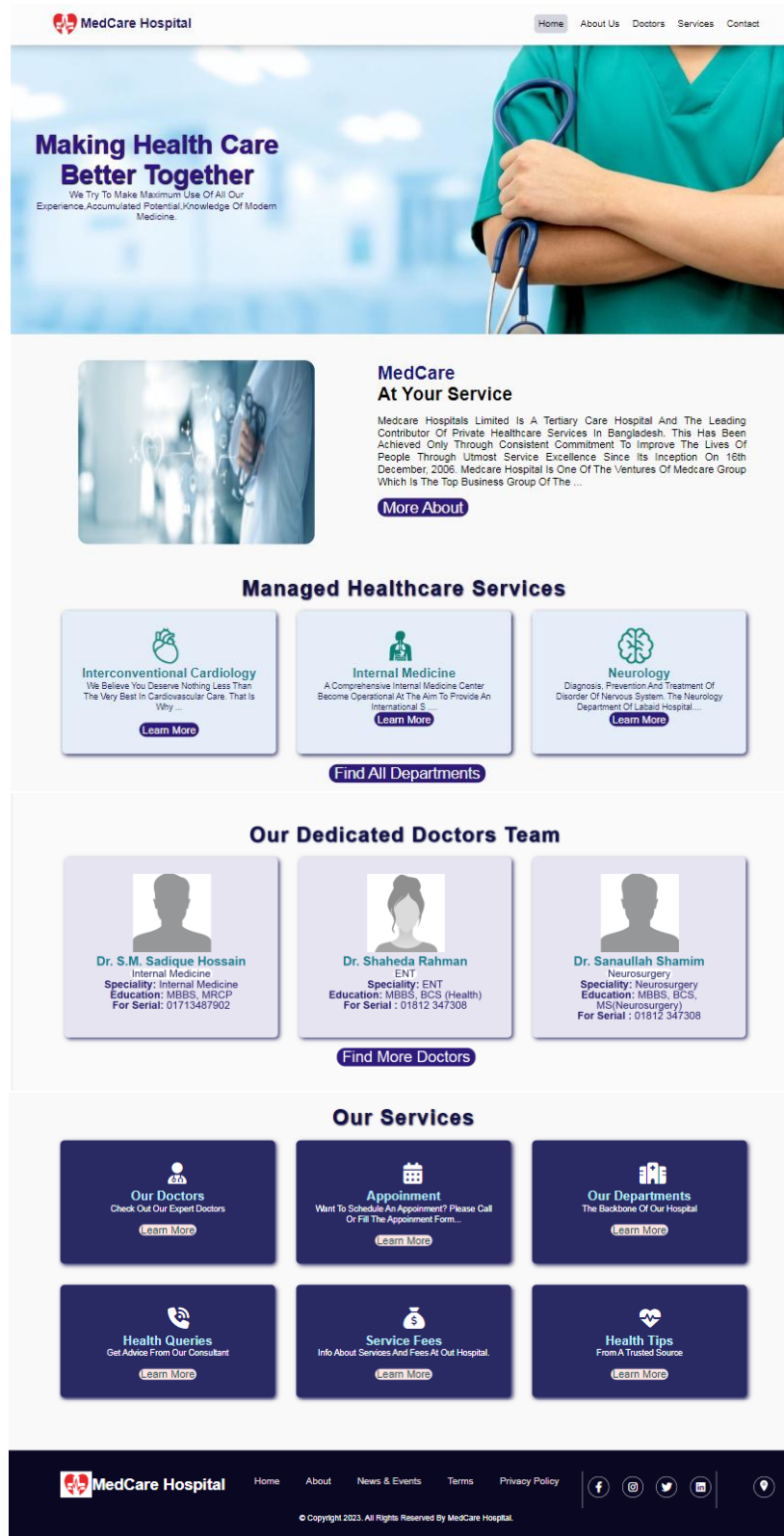


Figure 2: Homepage



Figure 3: Dropdown menu on Navigation Bar

- **About Us:**

**Purpose:** This section introduces your hospital, its history, mission, visions.

**Functionality:** This section gives insight into the hospital's goals and the principles that guide its operations.

**Enhances User Experience:** Users can learn about our hospital's background and build trust in our services.

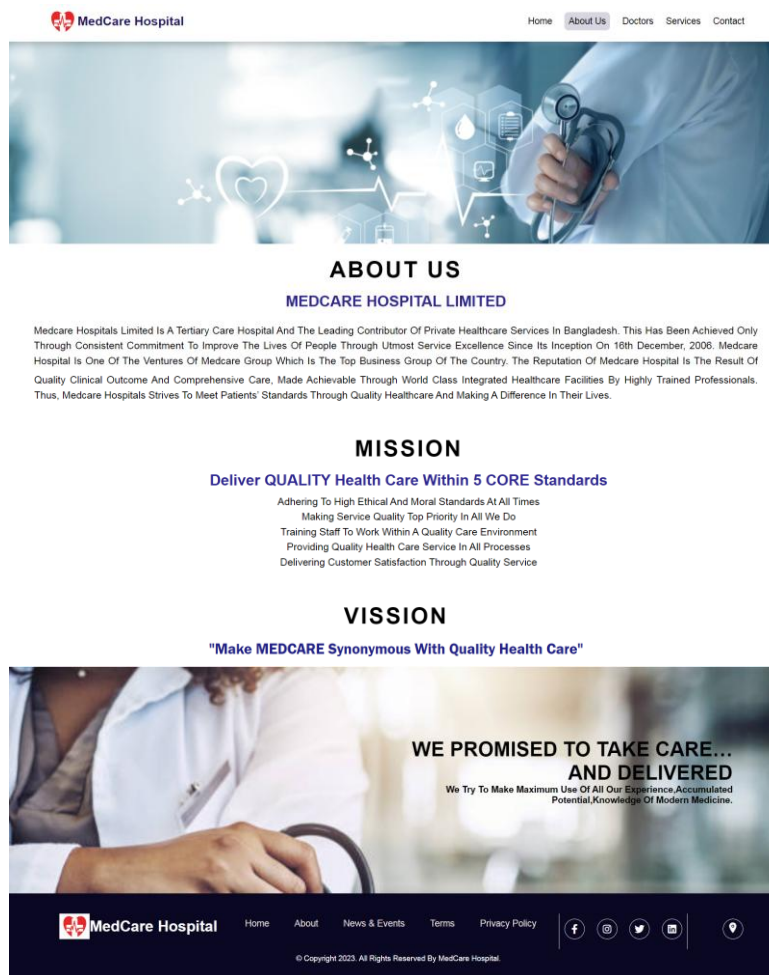


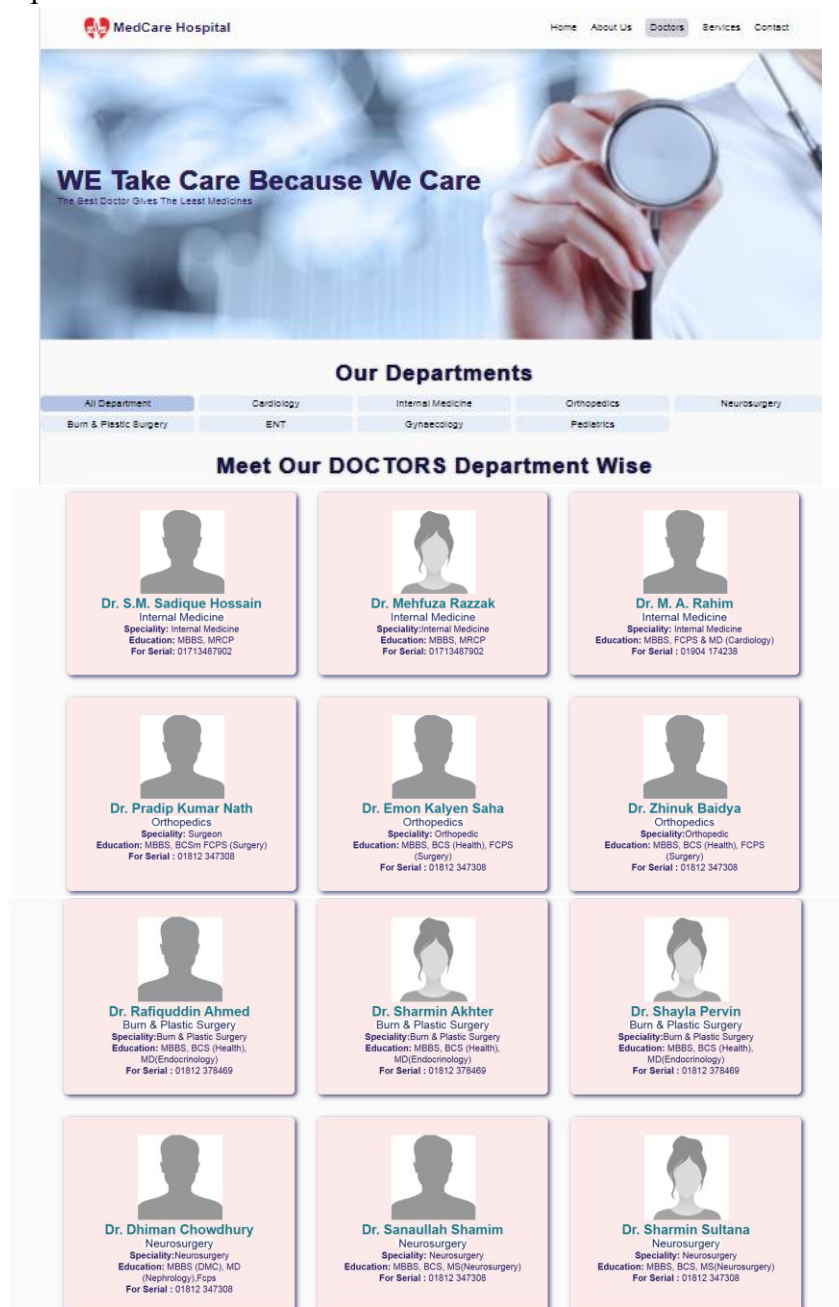
Figure 4: About Us Page

- **Doctors:**

**Purpose:** To showcase the medical professionals working at our hospital.

**Functionality:** Doctor's information are categorized department-wise in the section and each doctor's profile includes their qualifications, specialties, and contact information.

**Enhances User Experience:** Users can access information about doctors who are experts in the particular medical field or department they are interested in, ensuring that they receive specialized care.



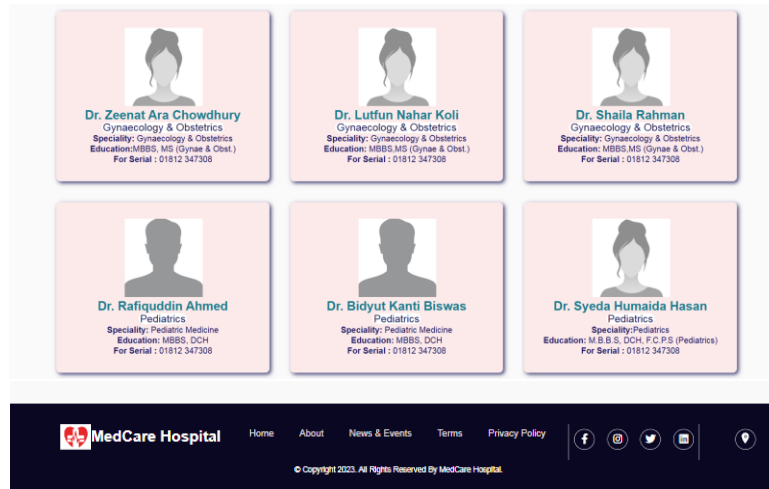


Figure 5: Doctors page (All Department)

- All the doctors information are categorized(department-wise) in the following manner :

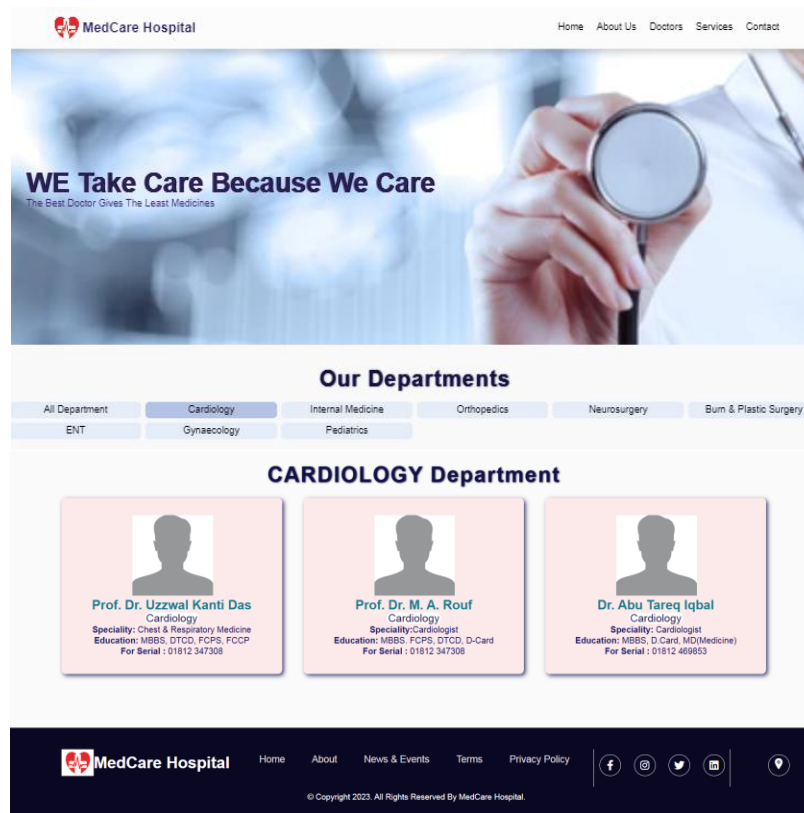


Figure 6: Doctors page (Cardiology department)

- Departments (Internal Medicine, Neurology, Cardiology, Orthopedic, Pediatric, Gynecology, etc.):

**Purpose:** This section provides details about the various departments available at our hospital.



**Functionality:** Provides detailed information about each department's services, facilities, specialists, available doctors in the respective department.

**Enhances User Experience:** Helps visitors quickly locate the department relevant to their health concerns easily, find doctors and book appointment.

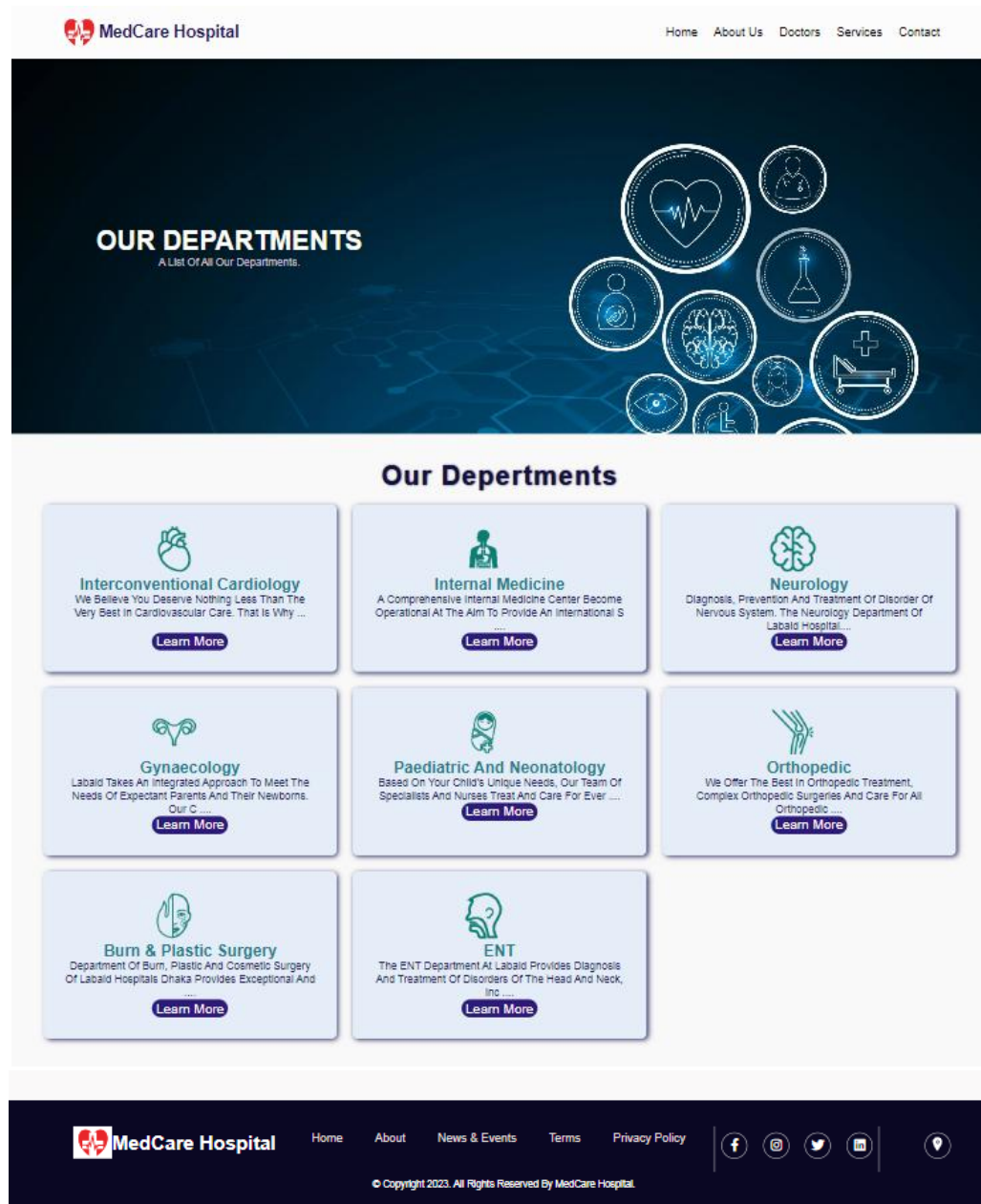


Figure 7: Departments page (All departments)

- All the departments information are portrayed in the website in the following manner:

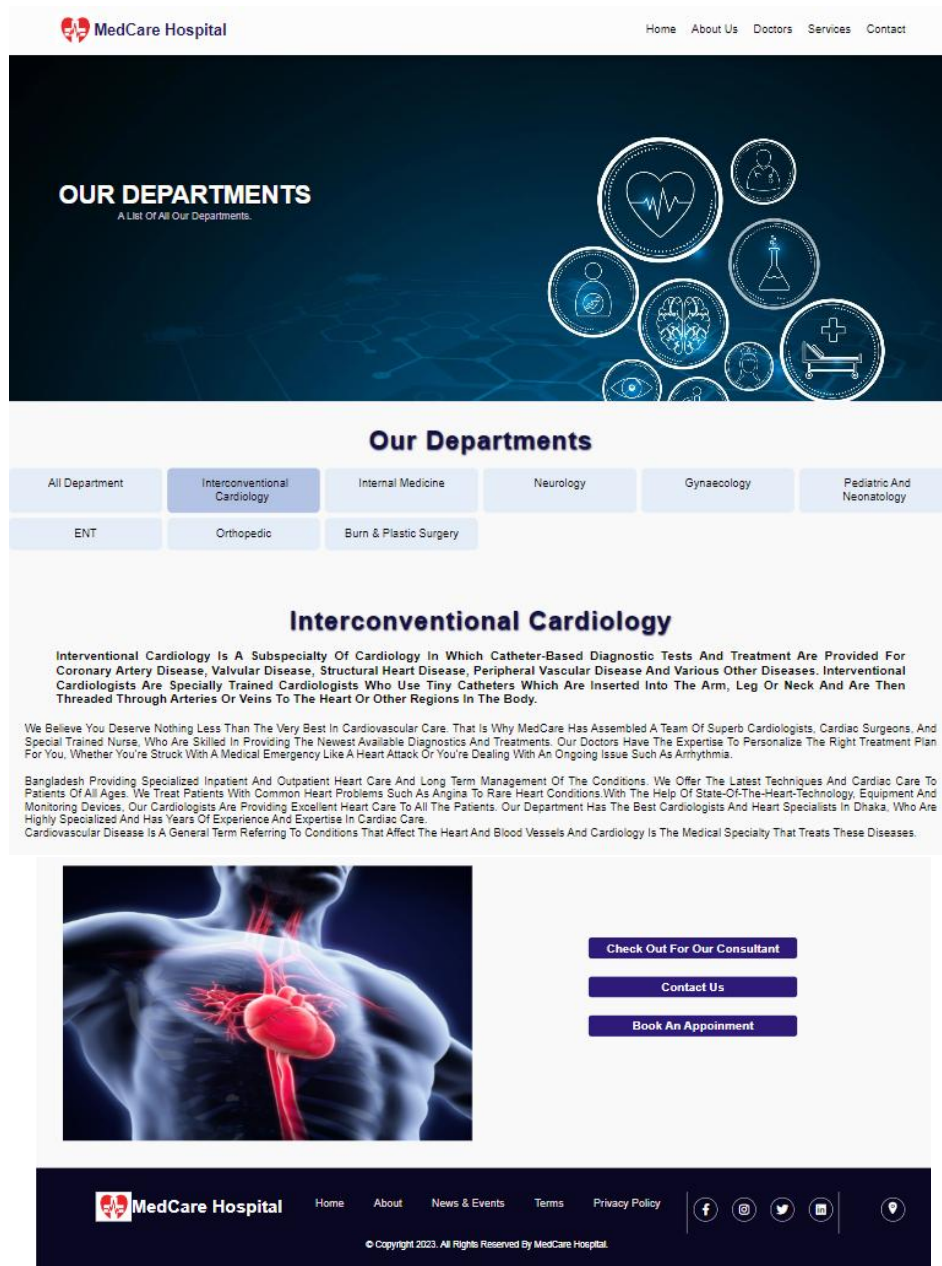


Figure 8: Specific Department's information(Interconventional Cardiology)

- **Services (Pathology, Radiology, Cardiology, etc) :**

**Purpose:** Users can learn about the diagnostic and treatment services available at our hospital.

**Functionality:** Includes descriptions of each service, benefits, and information on how to access them.

**Enhances User Experience:** Users can easily understand what services are available and how they can benefit from them. They can also access guidelines on how to prepare for specific tests, such as fasting requirements or medication restrictions.




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[About Us](#)
[Doctors](#)
[Services](#)
[Contact](#)



### OUR RANGE OF SERVICES

#### PATHOLOGY



**What Is Pathology?**  
 Doing This Is The Most Crucial Phase & We Take Note Of Even The Minutest Details While Adjudging The Extent Of Your Ailment Because One Slip Can Lead To An Incorrect Diagnosis, Posing Serious Threat To Your Health. Our Team Of More Than 50 Pathologists And Lab Technologists Ensure That They Are Extremely Careful While Analyzing The Samples.

#### RADIOLOGY & IMAGING

Medcare's Radiology & Imaging Department Provides You Unmatched Range Of Routine And Advanced Diagnostic Imaging Procedures With The Highest Technology Modalities Available. We Strive To Accommodate Our Patients' Exam Needs And Report Results In A Convenient, Efficient And Timely Manner. Your Diagnosis Is In The Hands Of Expert Radiologists And Physicians. These Experts Will Supervise And Interpret Your Radiology Examinations And Submit A Signed Report To The Referring Physician After Each Test Is Completed. In Addition To Our On-Site Board Certified Radiologist



CT SCAN



MRI



X-RAY



MEMOGRAPHY

#### CARDIOLOGY

##### Echocardiogram



An Echocardiogram Is A Type Of Ultrasound Diagnostic Test Used By Doctors To: Assess The Overall Function Of The Heart Determine The Presence Of Any Heart Disease Follow The Progress Of Any Heart Valve Disease Evaluate The Effectiveness Of Any Medical Or Surgical Treatment An Echocardiogram Image Is Much More Detailed Than A Plain X-Ray, And Involves No Radiation Exposure, Thus Making It Much Safer. Depending On What The Doctor Requires, A Patient Can Expect To Undergo Several Types Of Echocardiograms.

##### Electrocardiogram(ECG)

An Electrocardiogram (ECG) Is A Diagnostic Procedure That Measures And Probes For Any Complications Or Abnormalities With The Electrical Activity Of The Heart. An ECG Translates The Heart's Electrical Activity Into Line Tracings That Doctors Can Use To Detect Abnormal Heart Rates And Rhythms In ECG, Sensors Attached To The Skin Are Used To Detect The Electrical Signals Produced By Your Heart Each Time It Beats.

#### ULTRASONOGRAPHY



**What Is Ultrasonography?**  
 Ultrasound Is A Safe And Widely Used Imaging Technique. Ultrasound Produces Detailed Pictures Of The Body In Real Time Using High Frequency Sound Waves Which Are Produced By A Special Ultrasound Probe, Called A Transducer. The Frequency Of These Sound Waves Is Higher Than That Detected By The Human Ear And When They Are Reflected By A Part Of The Body They Are Detected By The Probe And Used To Create Images That Can Be Displayed On A Monitor. Because They Are Captured In Real Time They Appear As Moving Images Not As Static Or Still Ones Thus Enhancing The Diagnostic Capability Of The Test. Ultrasound Has No Known Harmful Effects And Can Be Used To Image A Variety Of Conditions Including Pregnancy, Gallstones And Varicose Veins. Ultrasound Can Also Be Used To Measure Blood Flow Through Vessels, When It Is Called A Color Flow Doppler Or Duplex Scan.


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Figure 9: Diagnostic Service page

- **Service Fees:**

**Purpose:** To provide transparency by listing the fees associated with various medical services.

**Functionality:** Includes pricing details of the tests available in the hospital which can be found easily just by one click on our service areas.

**Enhances User Experience:** Users can access clear and detailed information about the costs associated with various medical services, tests offered by the hospital. This transparency allows patients to understand the financial aspects of their healthcare.

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## All You Need To Know About Billing And Coverage

### OUR SERVICE AREAS

- PATHOLOGY & MEDICINE**
- RADIOLOGY & IMAGING
- ECG
- ECHOCARDIOGRAM

#### List Of Running Tests And Their Fees

##### PATHOLOGY & MEDICINE

SL No.	Test Name	Price
01	ESR	30 TK.
02	LDH	150 TK.
03	CRP	150 TK.
04	TSH	200 TK.
05	LDH	150 TK.
06	Calcium	50 TK.
07	Creatinine	50 TK.
08	Urea	50 TK.
09	Uric Acid	100 TK.

##### RADIOLOGY & IMAGING

###### CT Scan

SL No.	Test Name	Price
01	CT Scan Of Brain	2000 TK.
02	CT Scan Of Chest	2500 TK.
03	CT Scan Of Abdomen	4000 TK.
04	CT Scan Of Spine	2000 TK.
05	CT Scan Of Penis	2000 TK.
06	CT Scan Of Limb	2000 TK.

###### Ultrasonography

SL No.	Test Name	Price
01	USG Of HBS	110 TK.
02	USG Of Lower Abdomen	110 TK.
03	USG Of Whole Abdomen	220 TK.
04	USG Of Pregnancy Profile	110 TK.
05	USG Of Testes	110 TK.
06	USG Of TVS	220 TK.
07	USG Of Thyroid	220 TK.

###### X-Rays

SL No.	Test Name	Price
01	CXR	200 TK.
02	Skull	150 TK.
03	Abdomen	200 TK.
04	Limb	500 TK.
05	Pelvis	200 TK.
06	Joints	150 TK.

##### ECG

SL No.	Test Name	Price
01	ECG	50 TK.

##### ECHOCARDIOGRAM

SL No.	Test Name	Price
01	Echo Color Doppler	600 TK.
02	Echo 2D	300 TK.

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Figure 10: Service Fees page

- **Appointment:**

**Purpose:** To allow users to schedule medical appointments online.

**Functionality:** Users can select their preferred department, date, and time for their appointment. They also have to provide essential information and contact details.

**Enhances User Experience:** Streamlines the appointment booking process, making it convenient for patients to secure medical consultations or treatments at their preferred time, reducing waiting times and improving overall accessibility to healthcare services.

The screenshot shows the 'Book Appointment' form on the MedCare Hospital website. The form is overlaid on a background image of a doctor in a white coat. The form fields include: 'Your Name' (text input), 'Gender' (select dropdown), 'Select Department' (select dropdown), 'E-Mail' (text input), 'Your Number' (text input), 'Select Date' (calendar picker), and 'Select Time' (select dropdown). A 'Make Appointment' button is at the bottom of the form. The website header includes the MedCare Hospital logo and navigation links: Home, About Us, Doctors, Services, Contact. The footer includes the MedCare Hospital logo, navigation links: Home, About, News & Events, Terms, Privacy Policy, social media icons, and a copyright notice: © Copyright 2023. All Rights Reserved By MedCare Hospital.

Figure 11: Appointment Booking Page

The screenshot shows the 'Appointment Booked Successfull' confirmation page on the MedCare Hospital website. The page features a dark blue banner with the text 'Appointment Booked Successfull' and a 'Go Back' button. The website header includes the MedCare Hospital logo and navigation links: Home, About Us, Doctors, Services, Contact. The footer includes the MedCare Hospital logo, navigation links: Home, About, News & Events, Terms, Privacy Policy, social media icons, and a copyright notice: © Copyright 2023. All Rights Reserved By MedCare Hospital.

Figure 12: Appointment booked (if time slot available)

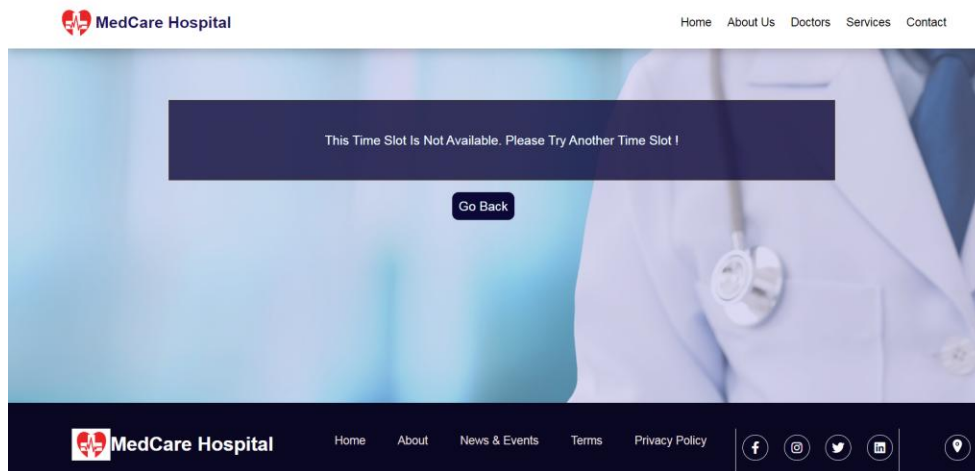


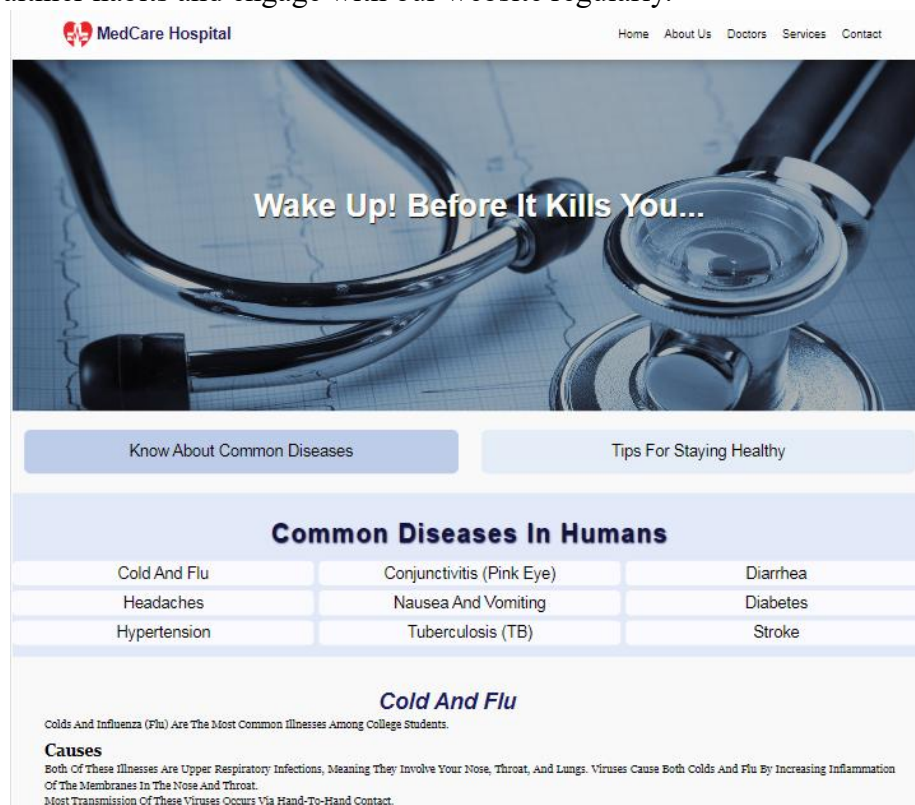
Figure 13: Appeared message (if time slot not available)

- **Health Tips:**

**Purpose:** To make people aware of common diseases and share health and wellness tips, promoting overall well-being.

**Functionality:** Includes causes, symptoms, treatment options, and preventive measure of the common diseases. Regularly updated tips and advice on maintaining a healthy lifestyle.

**Enhances User Experience:** Users can find all information about diseases by just clicking on the name of the disease at a short time. And health tips encourages users to adopt healthier habits and engage with our website regularly.



## Symptoms

Flu Symptoms Come On Suddenly And Affect The Body All Over. Flu Symptoms Are Usually More Serious Than A Cold And Include:

- *Fever (100° F)*
- *Headache*
- *More Intense Pain And Fatigue*
- *More Severe, Often Dry Cough*

You May Also Experience A Mild Headache, Body Aches Or A Low Grade Fever. Typically, A Cold Lasts 2-14 Days.

## Treatment

If Any Problem Is Causing You Discomfort, You Should Seek Medical Care. Seek Medical Attention Promptly If You Have:

- *A Fever Of 102° F Or Greater (Which May Indicate A More Serious Infection)*
- *A Persisting Cough, Especially With A Significant Fever (Which Could Indicate Pneumonia)*
- *A Persistent Sore Throat (Especially If Runny Nose Does Not Develop - Which Could Indicate A Strep Infection)*
- *Any Cold Lasting More Than 10 Days*

## Prevention

The Flu Is Probably Only Contagious During The First Three Days Of Illness, And The Incubation Period Is 24-72 Hours, Meaning You Might Not Show Symptoms For Three Days After Contracting The Virus. It Is Rare To Catch A Cold Virus Through The Air – Most Transmission Occurs Via Hand-To-Hand Contact. To Prevent Colds, Flu, And Other Illnesses, Follow These Tips:

- *Wash Your Hands Often (Which Is Good Advice For Keeping Healthy In Any Situation). Keep Them Away From Your Nose, Eyes, And Mouth. Use An Instant Hand Sanitizer When You Can't Wash Your Hands.*
- *Get Regular Exercise And Eat Well.*
- *Follow Good Sleep Habits.*
- *Get A Flu Shot Each Fall (Offered To All Students At A Lower Cost By UHS Each Fall)*

# Conjunctivitis

## Causes

Conjunctivitis, An Inflammation Of The Transparent Membrane (Conjunctiva) That Lines Your Eyelids And Part Of Your Eyeballs, Has Several Possible Causes. It Could Be A Bacterial Or Viral Infection, An Allergic Reaction To Pollen Or Animal Dander, Or A Result Of Chemical Irritants (Smoke, Chlorine, Lens Solution, Etc.).

## Symptoms

These Symptoms May Last A Few Hours To Several Weeks: Redness, Itching, Tearing, Burning Sensation, Pus-Like Discharge And/Or Crusting Of The Eyelids. Because Conjunctivitis Causes Inflammation Of The Small Blood Vessels In The Conjunctiva To Become More Prominent, The Whites Of Your Eyes Will Appear Pink Or Red. When You Wake You Are Likely To Feel That Your Eyelids Are Pasted Shut, And Your Vision May Not Be As Clear As Usual.

## Treatment

Because Pink Eye Is Highly Contagious, Early Diagnosis Is Important. Bacterial Cases Can Be Cured With Antibiotic Eye Drops, Viral Conjunctivitis Clears Up On Its Own, And Allergic Reactions Can Be Treated With Various Types Of Eye Drops. Here Are Some General Tips:

- *Wash Your Hands Frequently To Prevent Spreading An Existing Infection To Your Other Eye, And To Other People.*
- *Don't Rub Your Eyes.*
- *Use A Cool Wet Washcloth To Soak Off Any Crusting*
- *Use A Warm Or Cool Compress To Reduce Discomfort.*
- *Discard Eye Make-Up Because It May Cause Future Infection.*
- *Wash Any Clothing That May Be Contaminated, Including Towels And Pillowcases. Try To Use Clean Towels And Pillowcases Everyday.*
- *Avoid Wearing Contact Lenses And Discard Current Lenses.*
- *If Eye Drops Are Prescribed, Place Drop In Pocket Formed By Pulling Down Lower Lid. Make Sure You Don't Touch The Bottle To The Eye In Order To Prevent Contamination.*

## Prevention

Pink Eye Is Extremely Contagious, So If You Know Someone Who Is Infected, Make Sure You Do Not Expose Yourself To Contact With The Person's Eye Fluid. The Infection Can Easily Be Passed Via Keyboards, Doorknobs, Make-Up, Pens, Gym Equipment, And A Vast Number Of Other Items. To Protect Yourself, Wash Your Hands Frequently, Avoid Touching Your Eyes, And Wash Anything That May Be Contaminated.

# Diarrhea

## Causes

- *Bacterial Infection, Caused By Contaminated Food Or Water*
- *Viral Infection*
- *Parasites, Which Can Enter The Body Through Food Or Water*
- *Food Intolerance, Such As The Inability To Digest Lactose, The Sugar In Milk*
- *Overuse Of Alcohol Or Laxatives*
- *Medication, Such As Some Antibiotics Or Antacids Containing Magnesium*

## Symptoms

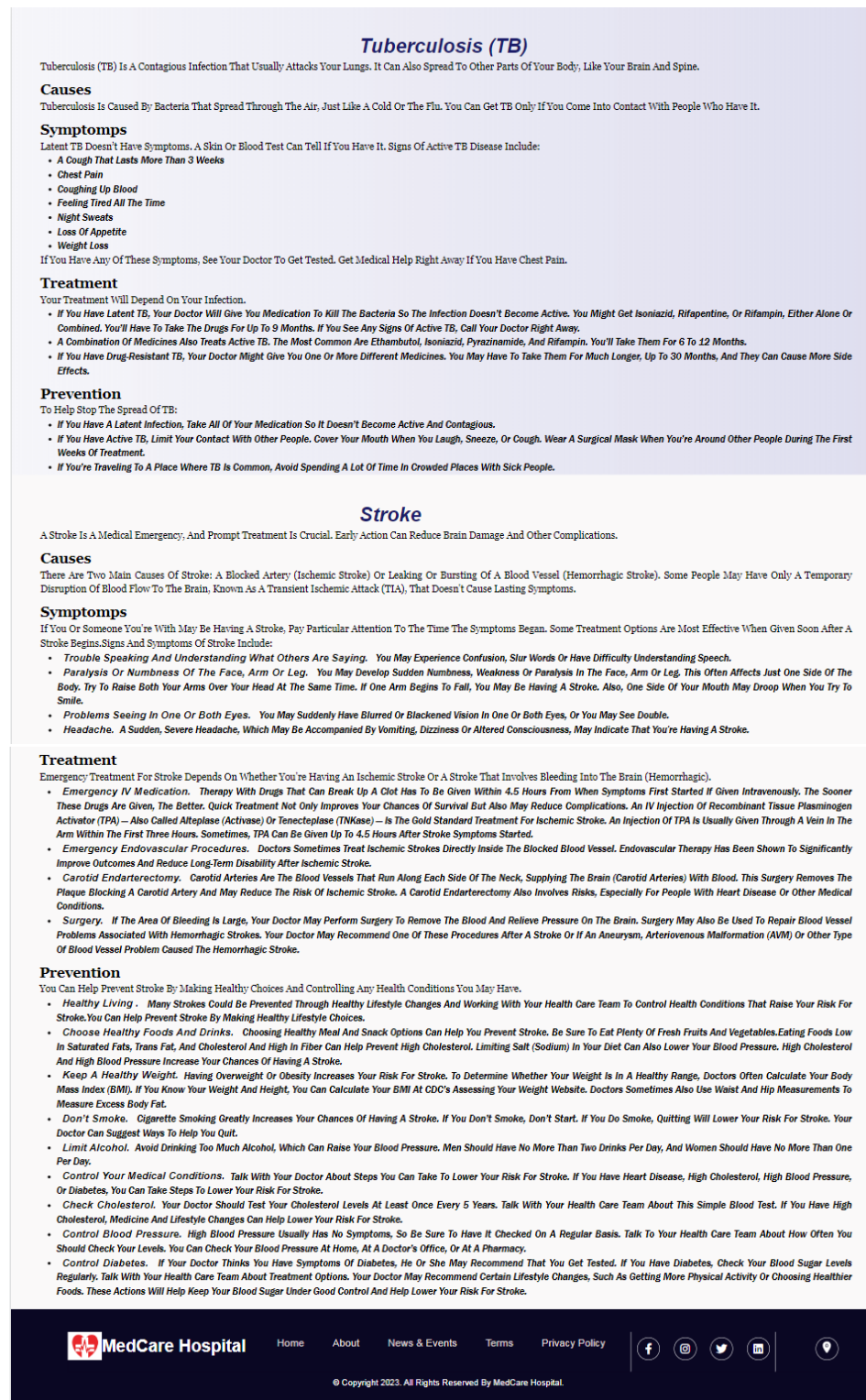
- *Watery, Loose Stools*
- *Frequent Bowel Movements*
- *Cramping Or Pain In The Abdomen, Nausea, Bloating*
- *Possibly Fever Or Bloody Stools, Depending On The Cause*

## Treatment

Usually Diarrhea Will Clear Up On Its Own In A Day Or Two, But A Prolonged Case May Cause Complications. The Most Important Concern Is Dehydration. If You Have Symptoms Of Dehydration, A Fever Above 102° F, Bloody Stools (Black And Tarry), Severe Abdomen Or Rectum Pain, Or Diarrhea Lasting More Than 3 Days You Should Consult A Physician. Here's Some Advice For Taking Care Of Diarrhea Yourself:

- *Avoid Foods That Are Milk-Based, Greasy, High-Fiber, Or Very Sweet Because These Are Likely To Aggravate Diarrhea.*
- *Do Not Eat Solid Food If You Have Signs Of Dehydration (Thirst, Light-Headed, Dark Urine). Instead, Drink About 2 Cups Of Clear Fluids Per Hour (If Vomiting Isn't Present), Such As Sports Drinks And Broth. Water Alone Is Not Enough Because Your Body Needs Sodium And Sugar To Replace What It's Losing.*
- *Avoid High Sugar Drinks, Like Apple Juice, Grape Juice, And Soda, Which Can Pull Water Into The Intestine And Make The Diarrhea Persist.*
- *Over-The-Counter Drugs, Such As Imodium A-D, Should Only Be Used If Absolutely Necessary Because It Is Important To Let Diarrhea Flush Out The Bacteria Or Parasite That's Causing The Infection.*







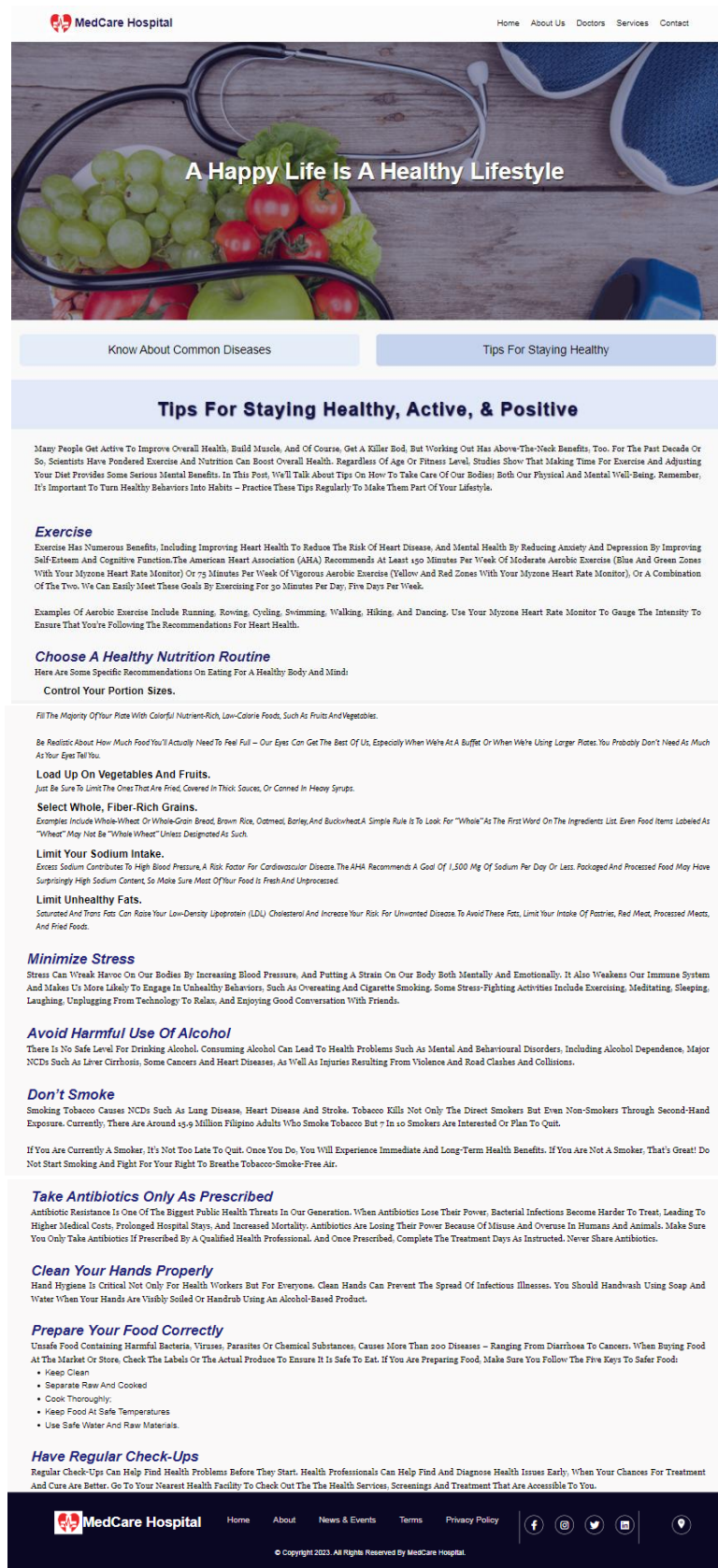


Figure 15: Health tips page

- **News and Events:**

**Purpose:** To keep users informed about hospital news, events, and community involvement.

**Functionality:** Posts news articles, event announcements, and relevant news.

**Enhances User Experience:** Creates engagement and connection of users with the hospital's activities and community involvement and make the users well informed about new medical technologies and achievements.

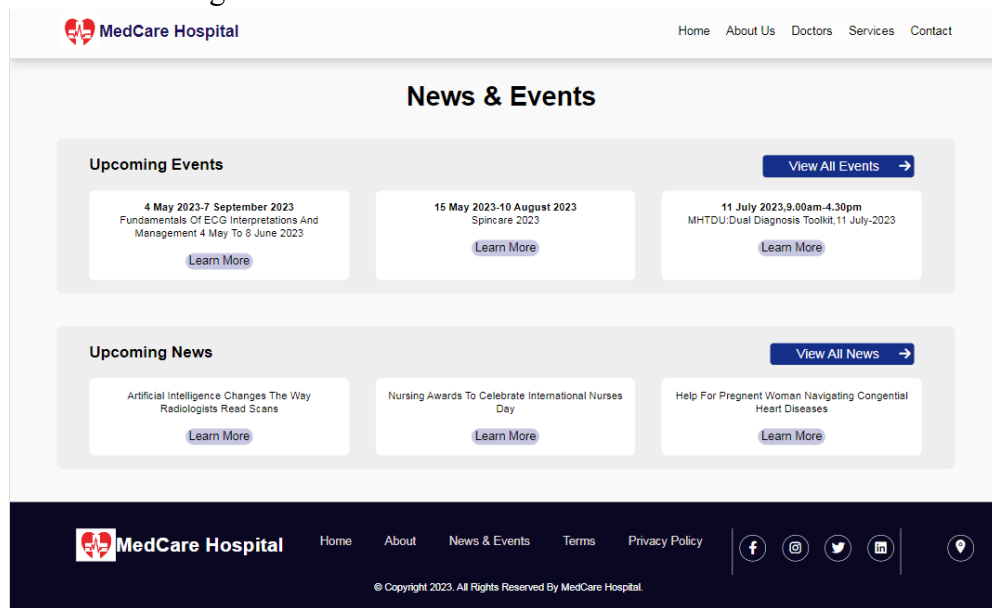


Figure 16: News & Events page

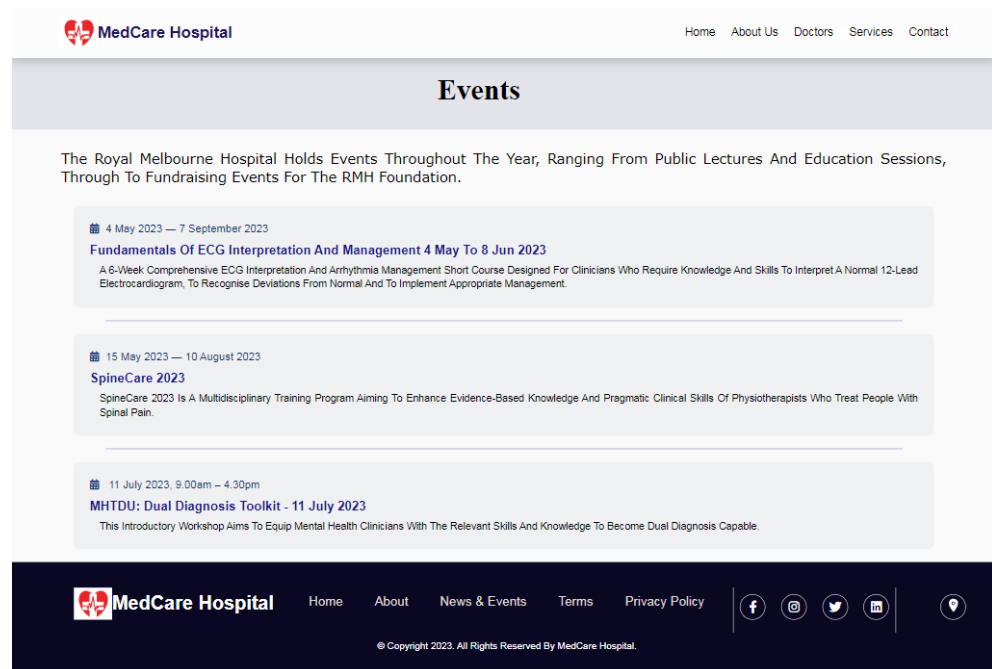


Figure 17: All Events page

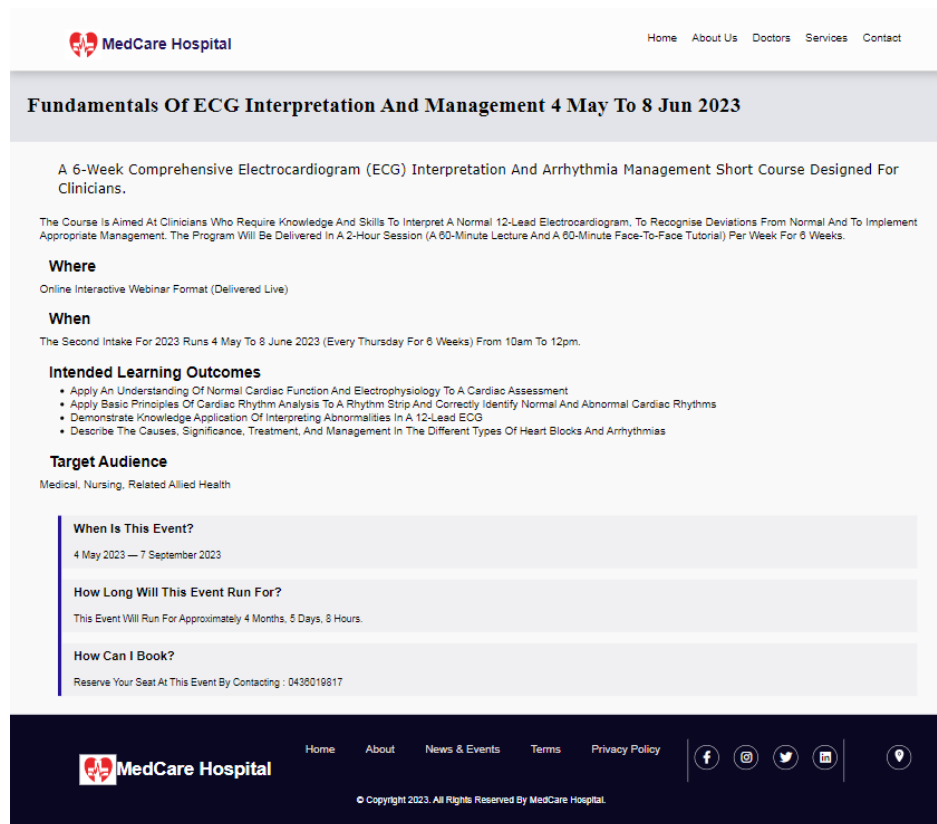


Figure 18: Event description page

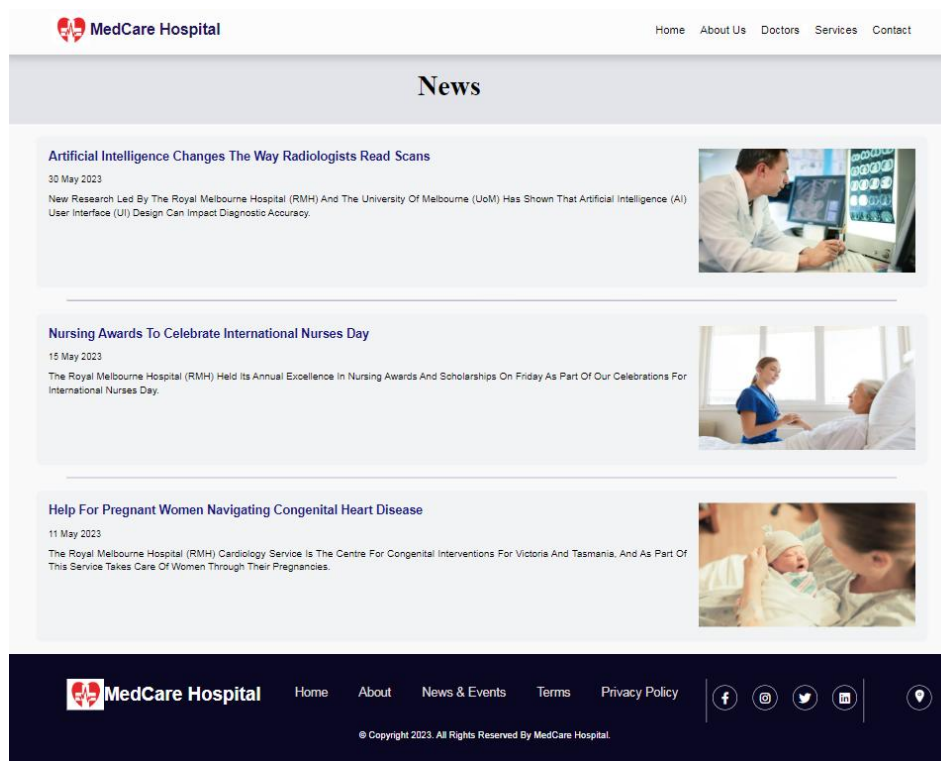


Figure 19: All News page

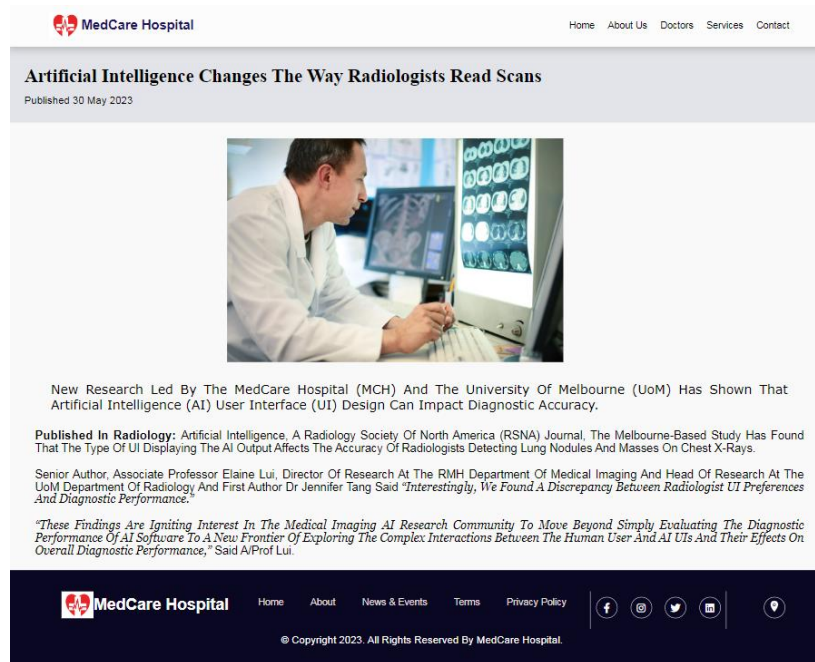


Figure 20: News Description page

- **Contact Us/ Health Queries:**

**Purpose:** To provide contact information for inquiries, appointments ,ambulance service and hotline number .

**Functionality:** Includes different social media link of hospital , phone numbers, and a location map.

**Enhances User Experience:** Users can easily find essential contact information in one place. Google Maps integration makes it convenient for patients and visitors to plan their visits and find directions.

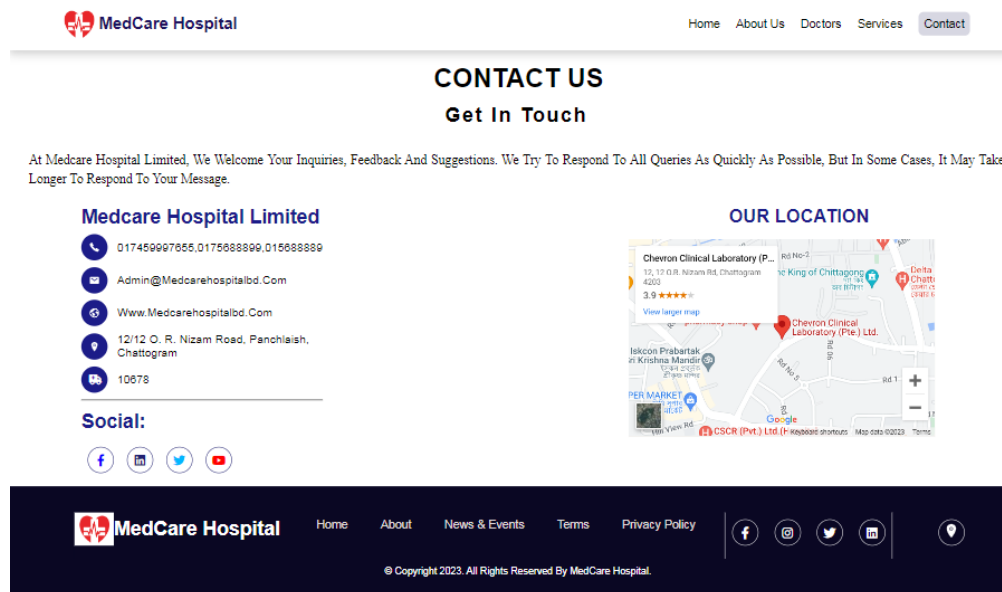


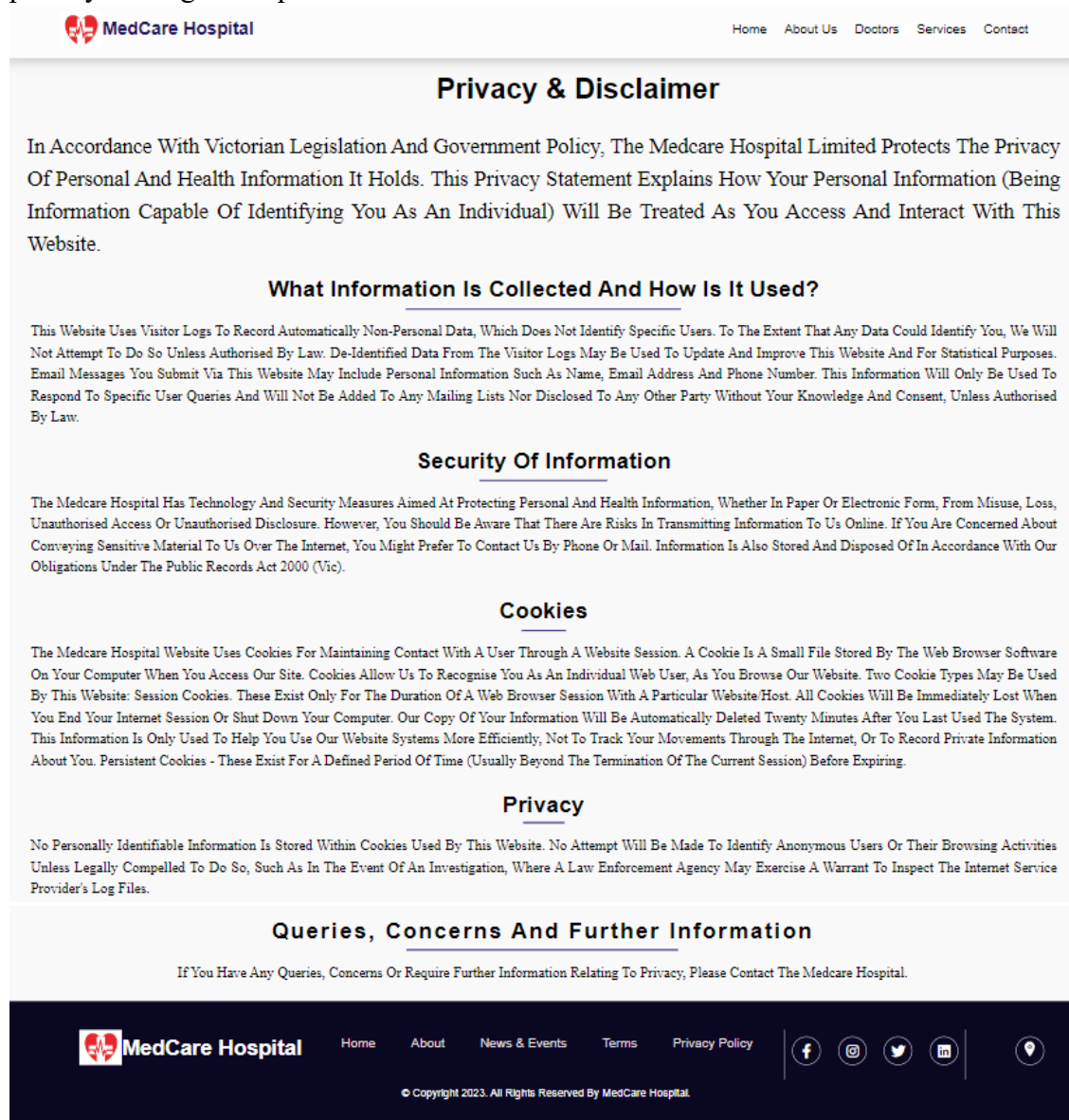
Figure 21: Contact Us page

- **Privacy, Terms, and Conditions:**

**Purpose:** To present the hospital's privacy policy and terms of service to users.

**Functionality:** Includes security of information, cookies, privacy, agreement, license, general disclaimer etc.

**Enhances User Experience:** Users can know the hospital's commitment to them , privacy and legal compliance.



**MedCare Hospital** Home About Us Doctors Services Contact

## Privacy & Disclaimer

In Accordance With Victorian Legislation And Government Policy, The Medcare Hospital Limited Protects The Privacy Of Personal And Health Information It Holds. This Privacy Statement Explains How Your Personal Information (Being Information Capable Of Identifying You As An Individual) Will Be Treated As You Access And Interact With This Website.

### What Information Is Collected And How Is It Used?

This Website Uses Visitor Logs To Record Automatically Non-Personal Data, Which Does Not Identify Specific Users. To The Extent That Any Data Could Identify You, We Will Not Attempt To Do So Unless Authorised By Law. De-Identified Data From The Visitor Logs May Be Used To Update And Improve This Website And For Statistical Purposes. Email Messages You Submit Via This Website May Include Personal Information Such As Name, Email Address And Phone Number. This Information Will Only Be Used To Respond To Specific User Queries And Will Not Be Added To Any Mailing Lists Nor Disclosed To Any Other Party Without Your Knowledge And Consent, Unless Authorised By Law.

### Security Of Information

The Medcare Hospital Has Technology And Security Measures Aimed At Protecting Personal And Health Information, Whether In Paper Or Electronic Form, From Misuse, Loss, Unauthorised Access Or Unauthorised Disclosure. However, You Should Be Aware That There Are Risks In Transmitting Information To Us Online. If You Are Concerned About Conveying Sensitive Material To Us Over The Internet, You Might Prefer To Contact Us By Phone Or Mail. Information Is Also Stored And Disposed Of In Accordance With Our Obligations Under The Public Records Act 2000 (Vic).

### Cookies

The Medcare Hospital Website Uses Cookies For Maintaining Contact With A User Through A Website Session. A Cookie Is A Small File Stored By The Web Browser Software On Your Computer When You Access Our Site. Cookies Allow Us To Recognise You As An Individual Web User, As You Browse Our Website. Two Cookie Types May Be Used By This Website: Session Cookies. These Exist Only For The Duration Of A Web Browser Session With A Particular Website Host. All Cookies Will Be Immediately Lost When You End Your Internet Session Or Shut Down Your Computer. Our Copy Of Your Information Will Be Automatically Deleted Twenty Minutes After You Last Used The System. This Information Is Only Used To Help You Use Our Website Systems More Efficiently, Not To Track Your Movements Through The Internet, Or To Record Private Information About You. Persistent Cookies - These Exist For A Defined Period Of Time (Usually Beyond The Termination Of The Current Session) Before Expiring.

### Privacy

No Personally Identifiable Information Is Stored Within Cookies Used By This Website. No Attempt Will Be Made To Identify Anonymous Users Or Their Browsing Activities Unless Legally Compelled To Do So, Such As In The Event Of An Investigation, Where A Law Enforcement Agency May Exercise A Warrant To Inspect The Internet Service Provider's Log Files.

### Queries, Concerns And Further Information

If You Have Any Queries, Concerns Or Require Further Information Relating To Privacy, Please Contact The Medcare Hospital.

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Figure 22: Privacy policy page



Figure 23: Terms page

## Database (PHP, MySQL):

For dynamic performance of our website, we have connected database with our frontend.

- We have included database in Appointment booking page to store the information of the users.

	ID	Name	Gender	dept	email	number	date	time
<input type="checkbox"/> Edit Copy Delete	64	sadia	Female	Cardiology	sadia.marzia36@gmail.com	123	2023-09-01	5.00-5.30
<input type="checkbox"/> Edit Copy Delete	65	fairooz	Female	Neurology	u1908060@student.cuet.ac.bd	124	2023-09-02	6.30-7.00
<input type="checkbox"/> Edit Copy Delete	66	marzia	Female	Pediatric	u1908036@student.cuet.ac.bd	4056	2023-09-15	6.00-6.30
<input type="checkbox"/> Edit Copy Delete	67	wahid	Male	ENT	asd@gmail.com	12356898	2023-09-20	7.30-8.00

☐ Check all
 With selected:
 ☐ Edit
 ☐ Copy
 ☐ Delete
 ☐ Export

Figure 24: Appointment Database



- **Responsive:**

We have also made our website responsive so that it is accessible on various devices, including smartphones and tablets.



Figure 25: User interface of homepage on smartphone

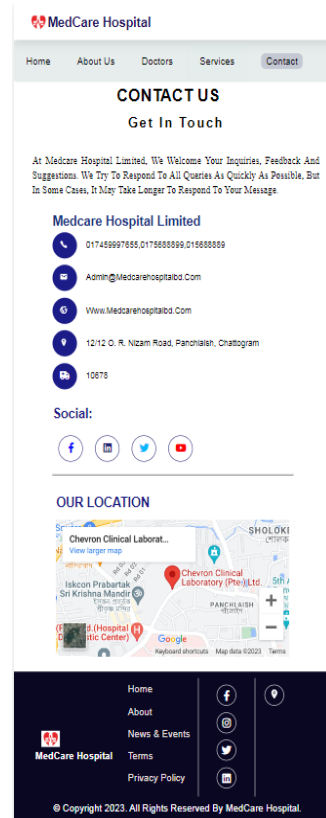
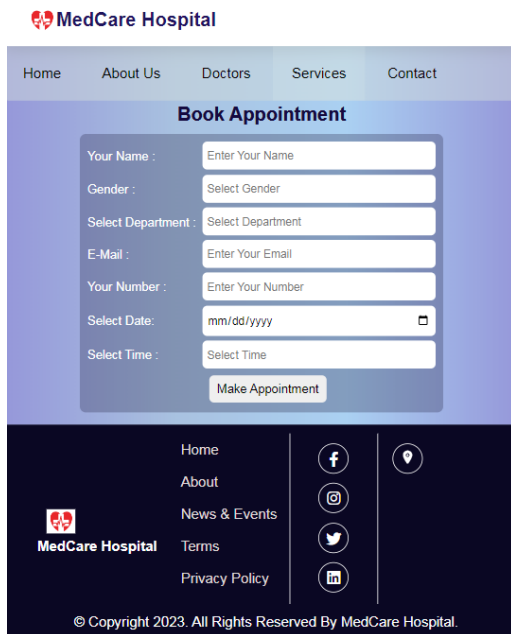
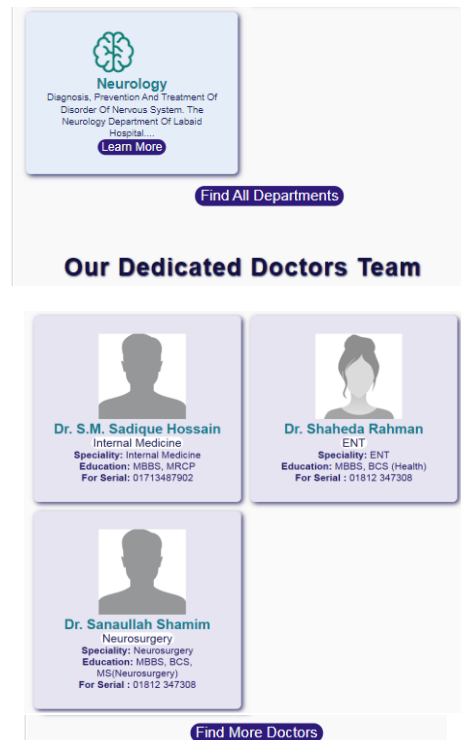
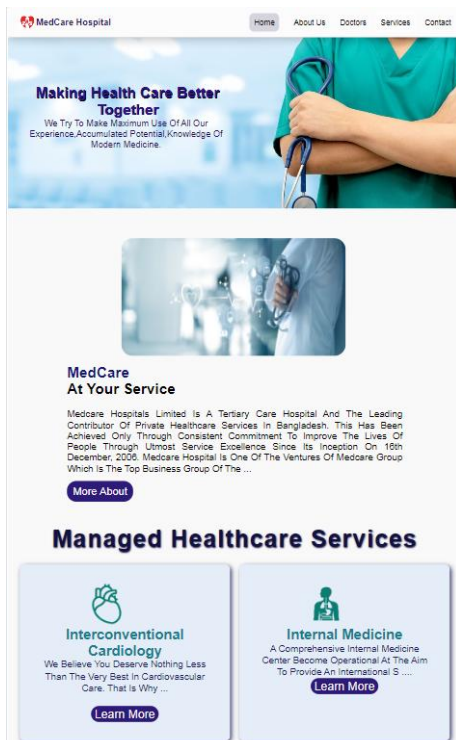


Figure 25: User interface of appointment page and contact us page on smartphone



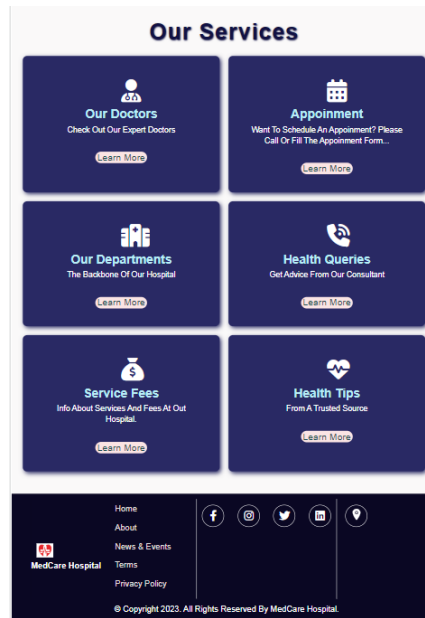


Figure 26: User interface of homepage on tablet

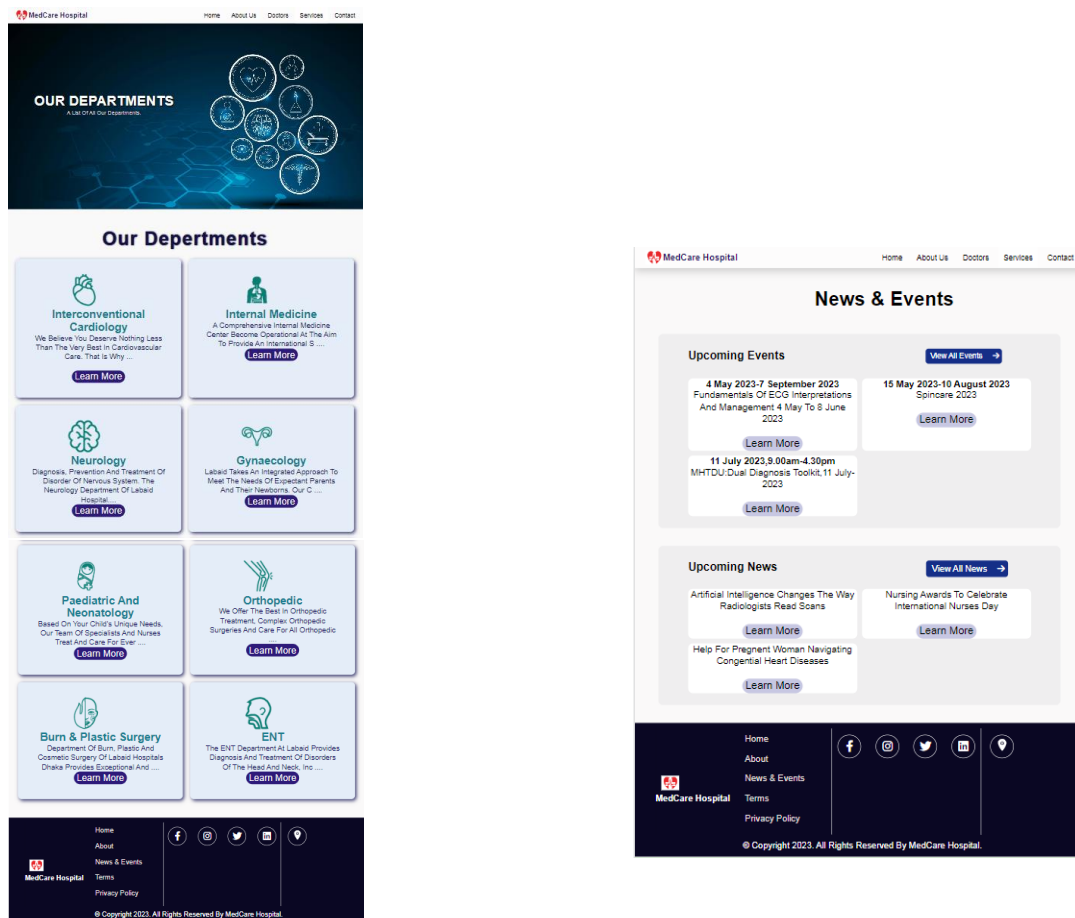


Figure 27: User interface of Department page and News & Events page on tablet

## Discussion:

As a website designing team, the main concern was to design a hospital website that effectively serves the needs of patients, visitors, and healthcare professionals along with a user-friendly interface. Throughout the development process, several challenges related to technical design and usability were encountered. Crafting a user-friendly interface by balancing between providing detailed information and maintaining a clean design was the first challenge. Implementing an appointment booking system, integrating Google Maps for location services, ensuring mobile responsiveness, along with organizing vast amounts of medical information and services department-wise was also a great challenge. These challenges provided us with opportunities to learn, adapt, and ultimately create a website that meets the diverse needs of the users while adhering to the highest standards of security and healthcare compliance. Embracing these challenges and continuously refining our approach, we developed a valuable resource that enhances patient engagement, accessibility, and the overall healthcare experience.