

**HEALTH DOOR: WEB BASED HEALTH CARE SOLUTION**

**BY**

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This report presented in partial fulfillment of the requirements for degree of  
Bachelor of Science in Computer Science and Engineering

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**DAFFODIL INTERNATIONAL UNIVERSITY**  
**DHAKA, BANGLADESH**  
**MAY 2018**

## **APPROVAL**

This Project titled “**Health Door: Web Based Health Care Solution**”, submitted by G.M.Asiquir Rahaman AND Md. Rasel Howlader to the Department of Computer Science and Engineering, Daffodil International University, has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on **April 07, 2018**.

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## DECLARATION

We hereby declare that this project has been done by us under the supervision of **Aniruddha Rakshit, Lecturer, Department of CSE, Daffodil International University**. We also declare that neither this project nor any part of this project has been submitted elsewhere for an award of any degree or diploma.

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We are highly indebted to Daffodil International University for their guidance and constant supervision as well as for providing necessary information regarding the project & also for their support in completing the project.

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## **ABSTRACT**

Now a day's online solution like as e-commerce, e-care, e-mail has long been a topic of the popular item, including print-media, education and specially on Health. This report aims to describe the process and procedure to build a very effective web based health care solution system titled as "Health Door". The main objective of this system is to get health care fast and easily people from the internet. This website also provides health tips, first aid, doctor's suggestions and doctor's appointment, ambulance services and online doctors' help and online prescription. In our country 1.5 Crore people of Bangladesh are ultra poor and more than 3 crore people are living below national poverty line. If we look them people are face several health problem and they did not take proper treatment by a skilled doctor's due to time, cost, expensive diagnosis exam and etc. If we are make web based online health care solution for the people it take easy to get better treatment from doctors. We believe that good health is critical condition for rapid socio-economic development of the country.

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# CHAPTER 1

## INTRODUCTION

### 1.1 General Introduction

“Health Door” is web based health care solution basically, it is designed for all class of people to get health care and help tips easily by using internet, access from anywhere at any time. The advancement of Information Technologies & Online Solutions depends upon both our demands and our curiosity about Information Technology, then the attitude of users of ICT have towards of ICT and usefulness must be weighted and examined. Therefore, day by day online solution like e-commerce, e-service are more important, popular and useful in the world. In our project we have tried to easy solution for health problem. All online Solution is for our help and easier life. In turns, online solution like these all serve to perpetuate such treatments and disease helps the public about the out-of-control implications of online web based service.

### 1.2 Overview

E-Health solution system are very well & effective solution for today’s generation as well as e-ticket, e-commerce, e-mail etc. e-Health is the cost-effective and secure use of information and communications technologies in support of health and health-related fields, including health-care services, health surveillance, health literature, and health education, knowledge and research. E-health is an emerging field of medical informatics, referring to the organization and delivery of health services and information using the Internet and related technologies. In our project Health Door web based application we thought that if make web based application for the all class of people it’s good for us to take well treatment by skilled Doctor. Beside this project to take online treatment by Doctor & others features are available such as collect blood, Appointment Booking, Hospital List, Hire Ambulance Buy Medicine .We are using tools ASP.NET,C#,MYSQL database for developing this application robust & secure.

### **1.3 Objectives**

Objectives of this project are as follows:

- a) Develop a web base e-Health solution system using ASP.net and MYSQL Database
- b) Giving easy and flexible access to the web site from an internet.
- c) Making the system secure for users.
- d) To reduce time, cost and make it inexpensive system for user.
- e) Make the system smarter using First Aid by communicate with doctor by Online talking & chatting, image sharing, video sharing.

## CHAPTER 2

### THEORY

#### 2.1 Web Application

Health Door operates via a web application designed for laptop/desktop/notebook/mobile phone. The user of our Health Door system can easily access on web based application from anywhere any time using internet by a click of log in button of the system. In our web application user must need to create account before login in the system at first give user information for registration. Admin of the application system confirm user registration by e-mail and mobile number. Every user name & mobile are unique and one user can create one account to providing mobile number & e-mail & after login the system user get the total facilities of this web application system.

#### 2.2 Hardware

We are using in our Health Door site HTML,CSS,Javascript,JQuery,SQL, LINQ & C# MVC(Model View Controller)for better performance and operation. To use our Health Door web based health solution users need to some hardware device like Laptop/Desktop/Tablet/Mobile and access our site users need internet by Modem/Wi-Fi/Broadband line to access this web application user can get easily service of this software.

#### 2.3 Internet and Protocols

Easy home system operates via internet connectivity from a third party router as a hotspot or network traffic controller. Easy home system can provide a small range hotspot without internet to communicate with devices inside of its range. Devices can operate on local area network and world wide area network. Both devices can perform from local area network and world wide area network.

## **2.4 Security and Access**

Health Door system can have three types of user. Admin user, Normal user and Service provider user. Admin user can access every listed in the system and can add normal user and service provider user. Service provider user like as doctor give the patient advice, prescription on the other hand normal users can facility total system of the application software. Admin user can maintain the total system of the application. Security is a good option in any application for security reason we have given the captcha information before login into the system for any user.

## CHAPTER 3

### BACKGROUND STUDY

#### 3.1 Objectives of this project

Health Door is web based health care solution. The main objective of the system is to give the people easily health facilities from anywhere any time using internet. We also know that health is wealth, to keep the healthy fitness we need to awareness about our health. In our country maximum people faces healthy problem but due to lack of knowledge about their health & expensive of treatment, time for treatment, diagnosis cost people are not willing to take proper treatment by skilled doctors. So in our project we have to try to more popular e- health system at the people & we hope that people are more awareness about their health accessing internet to use this site.

#### 3.2 Features of the Project

In our project we also try to stay better features of the project. Our main features of this project is using internet access our site from anywhere anytime to meet or communicate the doctors for better treatment by sharing their image/text/video.

- a) People can collect blood of our site
- b) Doctors appointment booking
- c) Doctors List
- d) Online treatment by chat/image/video
- e) Digital Prescription
- f) Hospital list with address& contact
- g) Booking Ambulance
- h) First Aid treatment
- i) Buy Medicine.

In our project a user must be login to use this features & before login users must create account, when create account by user we gather some information as blood information. One of the features of this site to collect blood for permitted user can collect blood by searching their area & communicate of blood donor collect blood easily. On the other hand if user need to take treatment at emergency purpose he/she login the site & showing active doctors list by choosing he/she can communicate the doctor by text or image sharing after meet the appointment of doctor print the prescription. Booking Ambulance has another feature of this site when patient need to ambulance to take proper time call ambulance provider to booking the ambulance. Hospital list has another feature of this project if people want to know hospital address & location easily can find hospital list.

### **3.3 Why we develop this project**

Over the past decade, the rapid advancement in Information and communication technology (ICT) has experienced tremendous change in health sector in many countries. Recent evidence suggests that e-Health is the blessing of ICT and is probably the most prominent service that has a noticeable effect on the development of healthcare sector in developing countries. Government in developing countries put much hope in e-Health systems due to improve the Quality and access to health services. In our country 1.5 Crore people of Bangladesh are ultra poor and more than 3 crore people are living below national poverty line. In our project we think that if we develop a web based online health project for all class of people to get the health facilities via internet connectivity from anytime & anywhere which is better for us.



To get the health facilities in our country to much expensive for all class of people. The development of our health sector is not well still in modern generation. On the other hand maximum people are come from village in Dhaka for better treatment to meet a skilled doctor who is able to maintain their treatment cost because our government not decentralized our medical college, hospital in remote area, different cities & skilled doctor. So people are willing to come in Dhaka for treatment purpose from village, city. It's also expensive for patient staying in Dhaka for take treatment by skilled doctors. Above fact people are want to get the health facilities with low of cost & time but what we can do for health care solution. Research on the adoption of e-Health in developing countries has shown that e-Health can be one solution to provide better access to healthcare facilities for patients, physician, nurses and other healthcare staffs, increase care quality and improve collaboration. Like developed and other developing countries, Bangladesh is beneficiary of the ICT based health service. Inception of e-Health solution is more crucial at this moment at our country. We development our project Health Door for web based care health solution for take better online based treatment using internet from anytime & anywhere for all class of people & have a some features of our application we discuss above.

## CHAPTER 4

### SYSTEM DESIGN

#### 4.1 Software Design

Table: 4.1: Language and Utilities used to design and develop web application.

<b>ID</b>	<b>LANGUAGE, TOOLS &amp; <u>UTILITIES</u></b>	<b><u>PLATFORM</u></b>	<b><u>USAG E</u></b>
1	C#	MVC	User control and communication with central database
2	Java script&jQuery	Event Control	Used in web application programming to control User activities and access central database
3	SQL& LINQ	Database Management	Insert& Retrieve data by user requirement
4	HTML& CSS	Browser Activities	To shows all the content & data in browser with color ,font & fit to screen

### 4.1.1 Use Case Design of Health Door

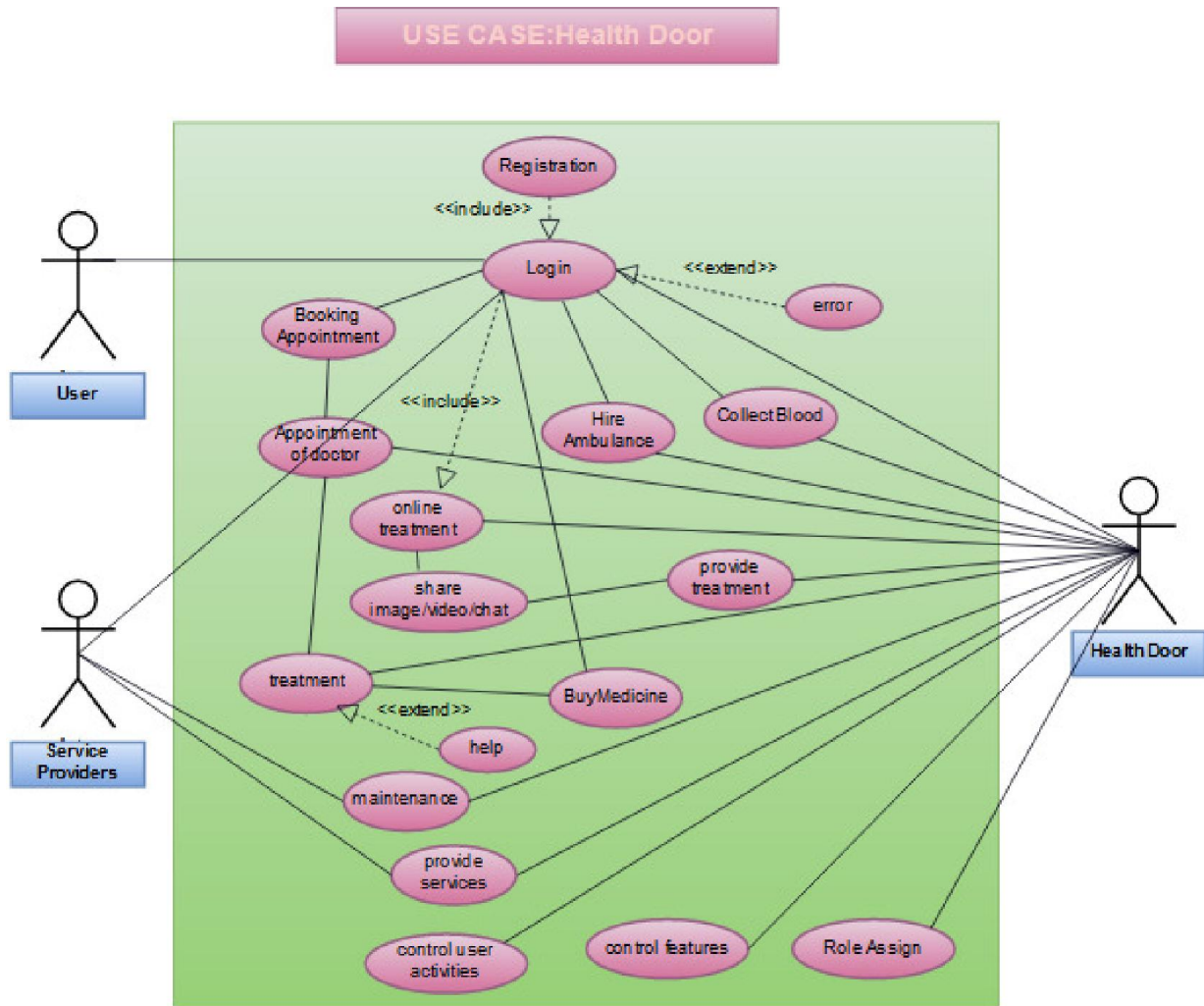


Figure 4.1: Use Case Design of Health Door

#### 4.1.2 Data Flow between user and system

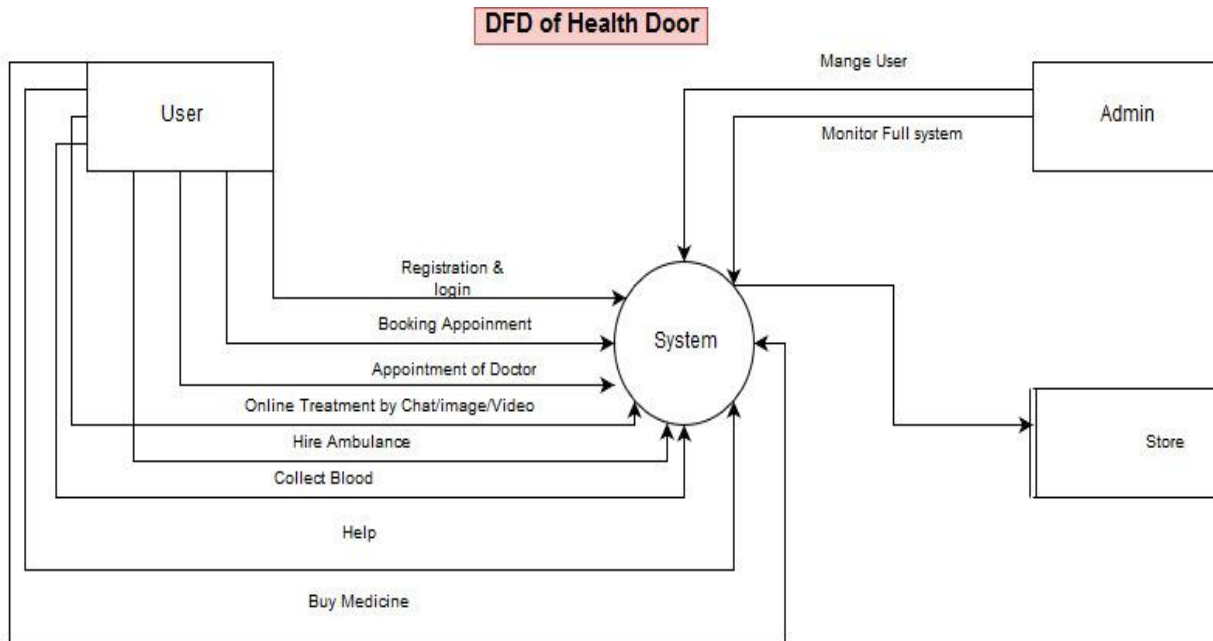


Figure 4.2: Context level Data Flow Diagram of Health Door

### 4.1.3 Level 1 Data Flow Diagram

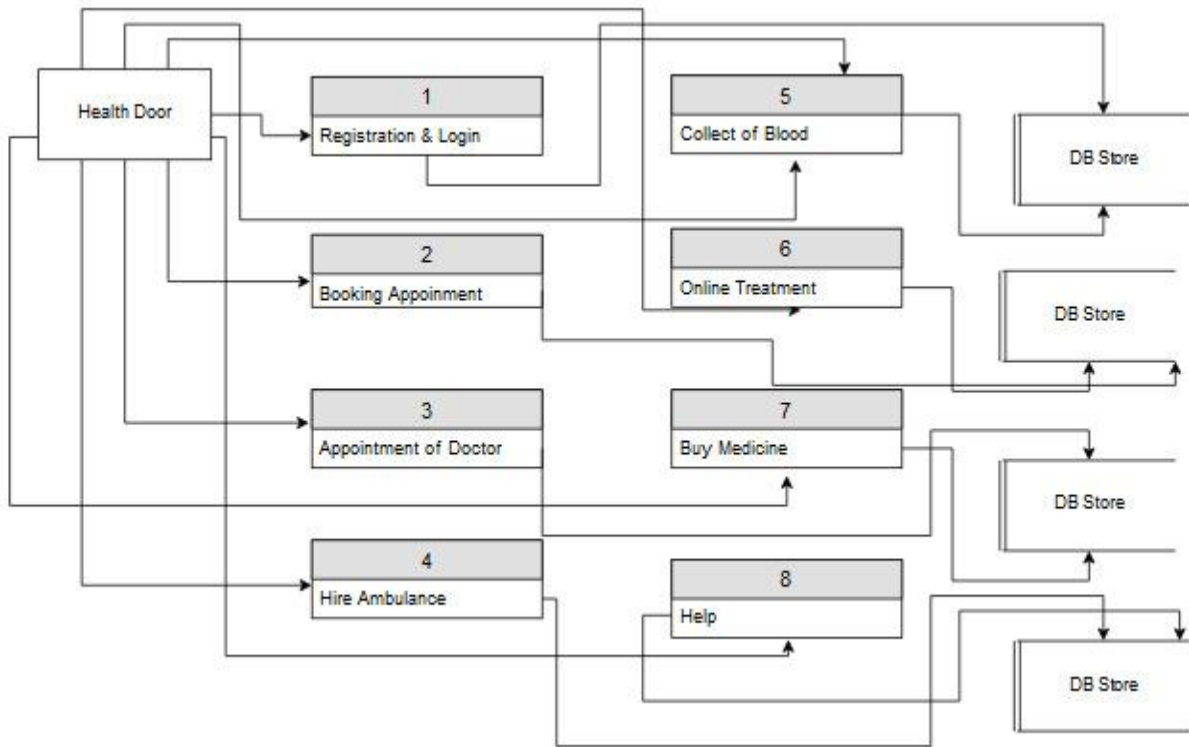


Figure 4.3: Level 1 Data Flow Diagram of Health Door

#### 4.1.4 Database Model of Health Door

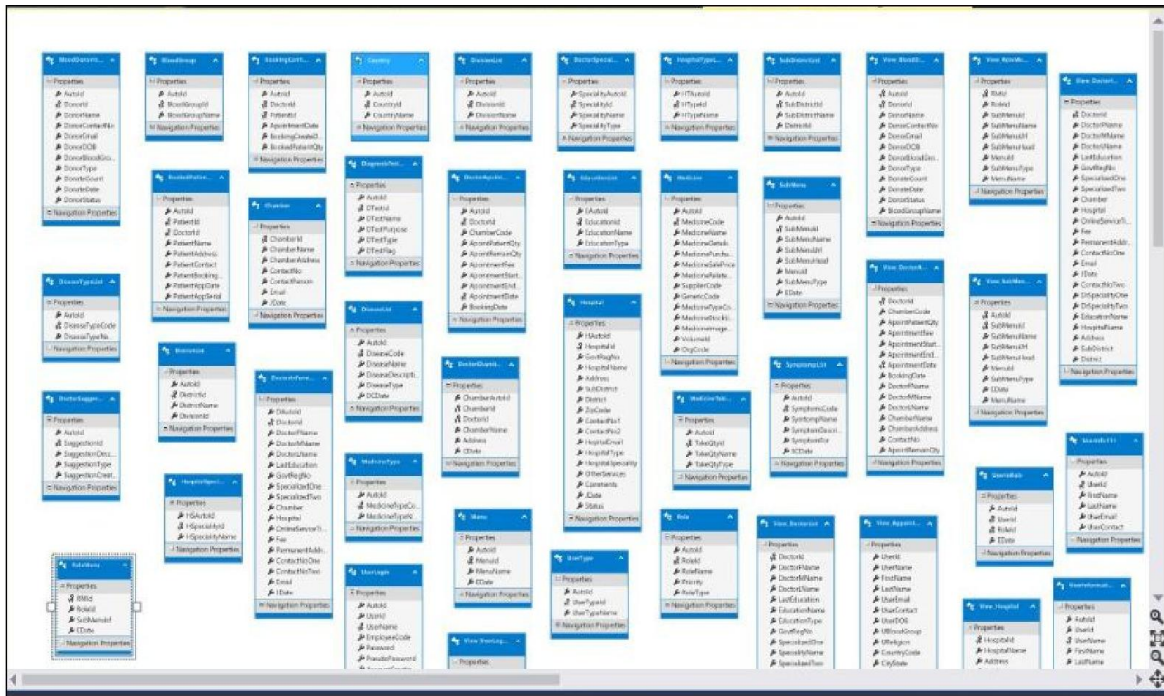


Figure 4.4: Database Model View of Health Door



# CHAPTER 5

## IMPLEMENTATION

### 5.1 Home page Code for Health Door

```
HomeController.cs # Layout.cshtml SignUp.cshtml Home.cshtml # UserRegistrationController.cs # Login.cshtml ApointmentBooking.cshtml
16 <link href="~/Content/Plugins/bootstrap/css/bootstrap.min.css" rel="stylesheet" />
17 <link href="~/Content/Plugins/sweetAlert/sweetalert.css" rel="stylesheet" />
18 <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
19 <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
20 <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
21 <script src="~/Content/Plugins/sweetAlert/sweetalert.min.js"></script>
22
23 <div class="row">
24 <div class="col-sm-12" style="background-color:cornflowerblue">
25 <div class="col-sm-6">
26 <div class="col-sm-3">
27 <div>
28 
30 </div>
31 <div class="col-sm-6" style="font-family:Bluefish STENCIL;">
32 <h1>Health Door</h1>
33 </div>
34 </div>
35
36 <div class="col-sm-6" style="margin-top:5px;">
37 @using (Html.BeginForm())
38 {
39     if (ViewBag.errorMessage != null)
40     {
41 <script type="text/javascript">
42     swal("Warning !", "@ViewBag.errorMessage", "warning");
43 </script>
44     }
45 <div class="col-sm-5">
46     &nbsp; &nbsp; &nbsp; <label> User Name</label>
```

Figure 5.1: Home Page design Code



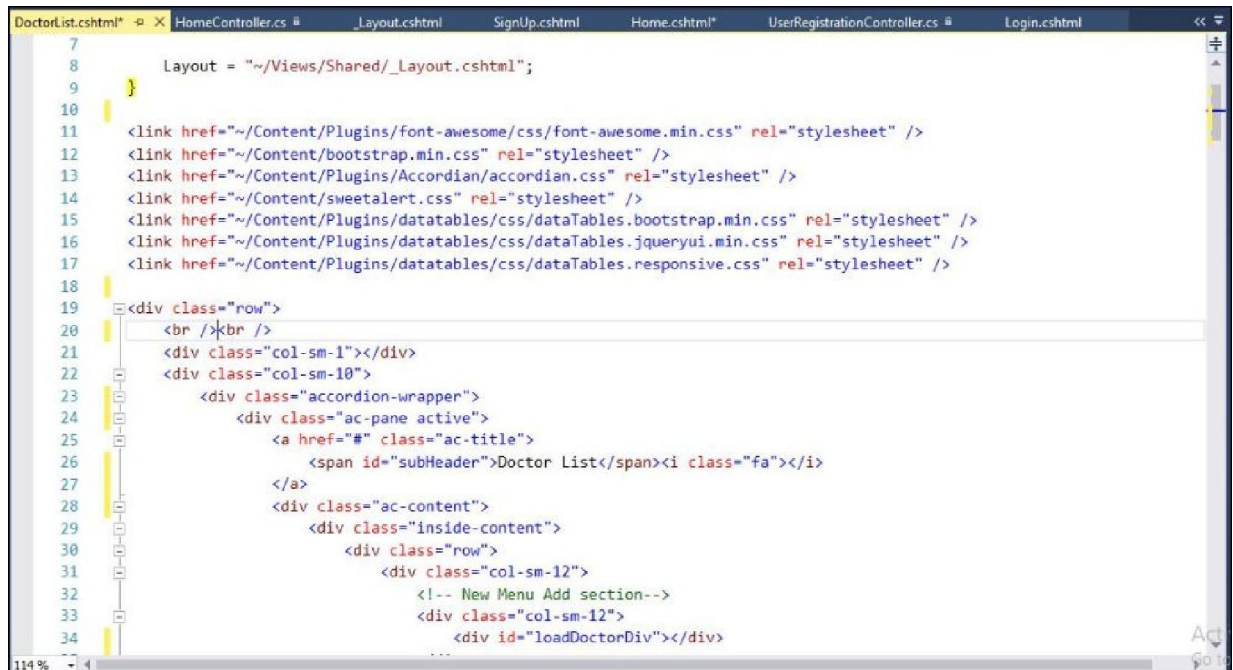
## 5.2 Code for patient meets with Doctor

```
signUp.cshhtml Home.cshhtml PatientMeetWithDoctor.cshhtml * X DoctorRegistration.cshhtml _Layout.cshhtml DoctorController.cs #
346 <script type="text/javascript">
347 window.onload = loadAllFunctions();
348 function loadAllFunctions() {
349     //loadMenuList();
350     loadBookedPatientList();
351     loadDiseaseTypeList();
352     loadSymptomsList();
353     loadLabTestList();
354     loadMedicineTypeList();
355     loadSuggestionList();
356     manageView();
357 }
358
359 function loadSelectedDiseaseInfo() {
360     var selectedDisease = document.getElementById("diseaseList");
361     var diseaseCode = selectedDisease.value;
362     var diseaseName = selectedDisease.options[selectedDisease.selectedIndex].innerHTML
363
364     if (diseaseCode != '-') {
365         var countloadedFaultyTableRow = $('#selectedDiseaseTable tr').length;
366         //here the number 1 row is the table header
367         for (var i = 0; i < countloadedFaultyTableRow; i++) {
368
369             var isExist = checkExistanceDisease(diseaseCode);
370             if (isExist == "false") {
371
372                 var element = document.getElementById("selectedDiseaseName").innerHTML;
373                 element += " " + diseaseName + " ";
374                 document.getElementById("selectedDiseaseName").innerHTML = element;
375
376                 var content = document.getElementById("selectedDiseaseTablebody").innerHTML;
377                 content += "<tr><td>" + diseaseCode + "</td><td>" + diseaseName + "</td></tr>";
378                 document.getElementById("selectedDiseaseTablebody").innerHTML = content;
379             }
380         }
381     }
382 }
```

Figure 5.2: Code for patient meets with Doctor

## 5.2 Code of patient meets with Doctor

### 5.3 Code for Doctor List



```
7
8     Layout = "~/Views/Shared/_Layout.cshtml";
9 }
10
11 <link href="../../Content/Plugins/font-awesome/css/font-awesome.min.css" rel="stylesheet" />
12 <link href="../../Content/bootstrap.min.css" rel="stylesheet" />
13 <link href="../../Content/Plugins/Accordian/accordian.css" rel="stylesheet" />
14 <link href="../../Content/sweetalert.css" rel="stylesheet" />
15 <link href="../../Content/Plugins/datatables/css/dataTables.bootstrap.min.css" rel="stylesheet" />
16 <link href="../../Content/Plugins/datatables/css/dataTables.jqueryui.min.css" rel="stylesheet" />
17 <link href="../../Content/Plugins/datatables/css/dataTables.responsive.css" rel="stylesheet" />
18
19 <div class="row">
20     <br /><br />
21     <div class="col-sm-1"></div>
22     <div class="col-sm-10">
23         <div class="accordion-wrapper">
24             <div class="ac-pane active">
25                 <a href="#" class="ac-title">
26                     <span id="subHeader">Doctor List</span><i class="fa"></i>
27                 </a>
28                 <div class="ac-content">
29                     <div class="inside-content">
30                         <div class="row">
31                             <div class="col-sm-12">
32                                 <!-- New Menu Add section-->
33                                 <div class="col-sm-12">
34                                     <div id="loadDoctorDiv"></div>
35                                 </div>
36                             </div>
37                         </div>
38                     </div>
39                 </div>
40             </div>
41         </div>
42     </div>
43 </div>
```

Figure 5.3: Code for Doctor List

## 5.4 Code for Add Chamber

```
85 }
86 }
87 function manageView() {
88     document.getElementById("btnAdd").style.display = "";
89     document.getElementById("btnEdit").style.display = "none";
90     document.getElementById("menuIdDiv").style.display = "none";
91 }
92
93 function loadMenuList() {
94     var x = "";
95     iLoadedMenuListDiv = document.getElementById("loadedMenuListDiv");
96     var iLoadedMenuListTable = "<table id='loadedMenuListTable' class='table table-bordered'><thead><tr><th style='display:none'>MenuID</th><th>
97     var count = 1;
98     $.ajax({
99         type: "POST",
100        url: @Url.Action("LoadChamberList", "Doctor"),
101        contentType: "application/json; charset=utf-8",
102        data: JSON.stringify({ "": "" }),
103        dataType: "json",
104        success: function (data) {
105            $.each(data, function (index, value) {
106                iLoadedMenuListTable += "<tr><td style='display:none'>" + value.ChamberId + "</td><td>" + count + "</td><td>" + value.ChamberNa
107                count++;
108            });
109            iLoadedMenuListTable += "</tbody></table>";
110            iLoadedMenuListDiv.innerHTML = iLoadedMenuListTable;
111            //SelectForDelete();
112            //SelectForEdit();
113
114            $('#loadedMenuListTable').DataTable({
115                "responsive": true, // For Make data table responsive
116                "scrollY": "200px", // For Fixed Header set with specific height (scrollY, scrollCollapse)
117                "paging": false, // For footer Paigination
118                "bInfo": true // For Remove Showing entries
119            });
120        }
121    });
122 }
```

Figure 5.4: Code for Add Chamber

## 5.5 Code for Doctor Registration

```
DoctorRegistration.cshtml | AddChamber.cshtml | DoctorList.cshtml | HomeController.cs | Layout.cshtml | SignUp.cshtml | Home.cshtml
1
2 @{
3     ViewBag.Title = "DoctorRegistration";
4 }
5 <link href="~/Content/Plugins/InternationalNumber/css/intlTelInput.css" rel="stylesheet" />
6 <div id="firstPage">
7     <div class="row">
8         <br />
9         <br />
10        <div class="col-sm-1"></div>
11        <div class="col-sm-8">
12            <div class="accordion-wrapper">
13                <div class="ac-pane active">
14                    <a href="#" class="ac-title">
15                        <span>Doctor Information</span><i class="fa"></i>
16                    </a>
17                    <div class="ac-content">
18                        <div class="inside-content">
19                            <div class="row">
20                                <div class="col-sm-12">
21                                    <div class="row">
22                                        <div class="col-sm-6">
23                                            <label class="form-label">Doctor First Name</label>
24                                            <input type="text" class="form-control" name="dfirstName" id="dfirstName" />
25                                            <label class="form-label">Doctor Middle Name</label>
26                                            <input class="form-control" type="text" name="middleName" id="middleName" />
27                                            <label class="form-label">Doctor Last Name</label>
28                                            <input type="text" class="form-control" name="lastName" id="lastName" />
29                                            <label class="form-label">Select a Degree</label>
30                                            <span id="educationDiv"></span>
31                                            <label class="form-label">BMDC Reg. No</label>
32                                            <input type="text" class="form-control" name="regNoBMDC" id="regNoBMDC" />
33                                            <label class="form-label">Speciality:One</label>
34                                            <span id="specialityDiv1"></span>

```

Figure 5.5: Code for Doctor Registration

## CHAPTER 6

### EXPERIMENTAL RESULTS

#### 6.1 Home page of Health Door



Figure 6.1: Home page of Health Door

When a user visits our site he/she can see our home page. User must be registration first to login our site by providing name, mobile number, e-mail, age etc. After successful registration user give the user name & password for login.

## 6.2 Online treatment by Doctor

**Patient Meet With Doctor**

Sl.No	Patient Name	Contact No	Birth Date	Previous Records
1	Md. Rasel Howlader	0192494755138	/Date('1520791200000')	<a href="#">View</a>

Disease Type: Ortho | Assume Disease: Fever | [Add](#)

Symptoms: Pain | [Add](#)

Test: | [Add](#)

Medicine Type: | [Add](#)

Medicine: Ranitidine | Taking Quantity: 1 pcs | Taking Time: Morning:Before Eat | Duration: 3 Days | [Add](#)

Suggestions: | [Add](#)

Comments:

[Submit](#)

---

**Health Door** Doctor Information

A complete online solution for Health Care.

Name: Md. Rasel Howlader | Age: | Contact: 0192494755138

Disease Name: \* Fever

Diseases ID	Diseases Name
1	Fever

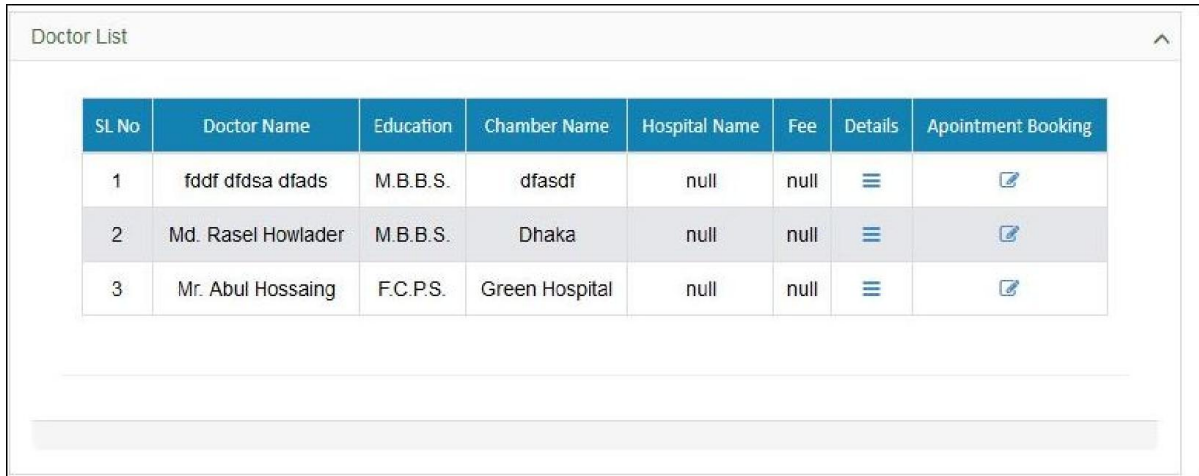
Symptoms:   
Suggested Medical Test:   
Primary Medicine:   
Suggestions:   
Suggestions: [Print](#)

Activate Windows  
Go to Settings to activate Windows.

Figure 6.2: Online treatment by Doctor

After successfully registration user can login our page & found features of the application as well as online treatment by Doctor. To meet the discussion with Doctor & patient, patient can print the prescription.

### 6.3 Registered Doctor List for Appointment



The screenshot displays a web interface titled "Doctor List" with a table containing three rows of doctor information. Each row includes a serial number, doctor name, education level, chamber name, hospital name, fee, a details icon, and an appointment booking icon.

SL No	Doctor Name	Education	Chamber Name	Hospital Name	Fee	Details	Apointment Booking
1	fddf dfdsa dfads	M.B.B.S.	dfasdf	null	null	☰	📅
2	Md. Rasel Howlader	M.B.B.S.	Dhaka	null	null	☰	📅
3	Mr. Abul Hossaing	F.C.P.S.	Green Hospital	null	null	☰	📅

Figure 6.3: Appointment Booking

When a user login our web based application Health Door user can also take appointment by our application by choosing Doctor Name, Education, Chamber address, Hospital Name, Fee.

## 6.4 Doctor Chamber Information

Add New Chamber ^

Chamber Name	Chamber Address	Contact Person
<input type="text" value="Type a Menu Name"/>	<input type="text" value="Type a Menu Name"/>	<input type="text" value="Type a Menu Name"/>
Contact No.	Email	<input type="button" value="Add Chamber"/>
<input type="text" value="Type a Menu Name"/>	<input type="text" value="Type a Menu Name"/>	

SL No	Chamber Name	Chamber Address	Contact No	Action
1	Holly Family	Dhaka	019246471238	<input type="button" value="Edit"/> <input type="button" value="Delete"/>

Figure 6.4: Doctor Chamber Information

User can able to see the Doctor Chamber information of our web based application Health Door when they have need to appointment for booking. Users also see the Chamber Name, Chamber Address, and Contact No. Admin user can add chamber information.



## CHAPTER 7

### CONCLUSION

#### 7.1 Conclusion

There are various systems in Health Care solution. Recently example of health based website like as MAYO Clinic, Drugs.com(Online Drug Information), Healthgrades.com(appointed to a different specialist),Mercola.com(health based website), Health.com(health based),Medscape.com(health based website).In our Health Door web based application we have tried to how user get the health care facilities. Our Health Door system people login the system and take doctor's treatment, First aid, Ambulance information, Hospital list, Blood information, Doctor's appointment, prescription & news feed option where doctor's patient see all status, opinion. We expect that our application system reduce cost, time & more popular at all class of people.

#### 7.2 Limitations & Future Scope

Every web based application system has limitations as well as our Health Door system has some limitations. A user when operates our application must need to internet via connectivity & before login the system user must create account with mobile number & E-mail. Our Health Door system future scope will bright & well. In future if we are an implement this project people will get good facilities about their health care. All above we believe that people will more aware of their health & an inception of health care solution in web based in our country are more important.

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