



NORTHERN UNIVERSITY

B A N G L A D E S H
Knowledge for Innovation and Change

An Internship Report Presented to the
**DEPARTMENT OF COMPUTER SCIENCE &
ENGINEERING**

In Partial Fulfillment of the Requirements for the Degree
Bachelor of Science in Computer of Science & Engineering

Supervised By

Muhammed Samsuddoha Alam

Assistant Professor

Department of Computer Science & Engineering

Northern University Bangladesh

Submitted By

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DEPT OF CSE

Date of Submission: 15th June, 2021

APPROVAL

The Industrial Training Report on “Web Development” submitted by **Md. Sheek Forid, ID: CSE1603010426** to the Department of Computer Science & Engineering has been accepted as satisfactory for the Course **CSE 4389** titled **Field work (Industrial Training)**.

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Letter of Submitter

I am here by submitting my Internship Report entitled “Web Development” which was a requirement for the completion of the CSE Program. I have discovered this study very interesting, beneficial and insightful.

The entire report is based on my practical experience in Nebulas IT. I expect this report to be informative as well as comprehensive. This Internship program and preparation of report has given me the opportunity to gather knowledge about web development sector and will help me a lot in my future career life.

Thank You very much for your guidance and cooperation during the course without which this internship report cannot be completed. Moreover, if you have any further enquiry concerning any additional information I would be very pleased to clarify that.

Yours Sincerely,

Md. Sheek Forid
ID: CSE160301026
15th June, 2021



NEBULAS IT
For Professional Skill Development

184, Senpara Parbata, Razia Plaza (4th Floor),
Mirpur-10, Dhaka-1216, Bangladesh
Contact: 02-9032597, 01711-927829

10th May 2021,

To Whom It May Concern,

RE: Mr Sheek Forid –Intern At Nebulas IT

This letter is mention that Mr. Sheek Forid has served as an intern from 01st October 2020 to 30th April 2021 at our company, Nebulas IT Limited. I have been his direct supervisor during this period.

Since the responsibility of his position on 01/10/2021 until 30/04/2021, He had attended dutifully to the company's office hour and fully utilizing the time provided to finish the given tasks before deadlines. During this short spell of times he is found to be punctual, active, display understanding communicating with his superiors, and is very dedicated to the duties.

Mr. Forid has undertaken a variety of company portfolios, namely for:

Front End Development [ReactJs] | learning and development

- ❖ React component concept
- ❖ React Routing
- ❖ Implement and working with API and react fetching
- ❖ Optimizing site speed performance
- ❖ Responsive design in different device



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It was a pleasure to working with Mr. Forid, who has displayed keen initiative to learn and a sense of responsibility to complete the tasks assigned on time. He definitely has the potential to do even better in overall performance with more opportunities. We enjoyed his positive personality and appreciated his work done at NIT.

Based on his performance, i have no hesitation in recommending his for employment at your company. We wished him the best of luck and success in his future endeavors.

Sincerely,

Signature here


..... 15.06.21

Arif Rahman
Director Operation,
Nebulas IT Limited
nitdirectoroperations@gmail.com

Abstract

The Project title “Appointment System” is a web Application where a nurse and doctor can make appointment their patient using this software to anywhere anytime in there server. This Software includes user dashboard, register and login system, appointment system, appointment list and also doctor and nurse edit the appointment after completed the appointment. This whole software is built using php and php framework laravel for backend and HTML, CSS and JavaScript for front end. We also worked on the responsiveness design for any size of device.

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Chapter One

Introduction

1.1 Background of the report:

As a student of Bachelor of Computer Science & Engineering I was sent to Nebulas Institute limited to conduct a practical orientation for fulfilling the requirement of 6 months internship. The main purpose of the program is to expose the students to real world situation. The goal of this analysis is to apply classroom learning in practice.

1.2 Origin Of the report:

This report is the result of Six months long internship program conducted at Nebulas Institute Limited. Internship is the best learning process to know about the organization and cope up the environment in such a way like professional employees. The experience that I got by working as an intern will help me in future.

1.3 Object of the Study

Main objective of the report is to fulfill the requirement of CSE program.

Secondary object:

- ❖ To Understand and analyze the overall activities of IT Sector
- ❖ To evaluate the existing activities and techniques
- ❖ To work on a real-life problem and solution.

The main objective of this internship is to learn actually how to implement of my knowledge of the bachelor degree in a software company, how to improvise my learning and make feasible my ideas and thinking on the real-life software company. My aim is to do some creative things in order to help human being by using my engineering knowledge on computer science.

It was a great opportunity for me to work for a well-known company and to help and learn from them to utilize my knowledge of my bachelor degree.

It is also the very first sector for a fresh graduate to work on a real-life problem and solution.

1.4 Scope of the report:

This report is the reflection of the days I spent at internship. It has the list of my achievements, my activities and learning, mental and professional growth.

I feel, I have improved myself. I am not standing at the place where I was before the Internship. I am ahead. This report will put the light on that fact.

This report also gives a brief description of the company, Nebulas IT Limited in case of any one has any intention of carry his/her professional life with this company.

Company Profile

1.5 About Nebulas IT Limited:

Nebulas IT offers different products and services within the IT domain. We meet customer requirements and provides optimum and customized solutions for organization.

Nebulas IT began its journey on 25 January 2016. In the beginning, it was more focusing on skilled base IT training but currently it is offering various services including software development, Digital Marketing, IT Consultancy, IT resource recruitment, Networking Solutions. Computer Hardware Equipment Supply.

Nebulas IT is focusing exclusively in high quality and cost-effective software development and implementation of IT services. We are advancing on a tremendous pace with involvement of skilled and experienced people working in the organization. It is one the fastest growing IT Company in Bangladesh. It has been contributing to reduce unemployment problem in Bangladesh.

1.6 Mission

Our mission is to develop present situation of our unemployment. We want to give best training so that we can spared out importance of ICT among our people.

1.7 Vision

To become a prime performer, in providing quality Training and Software solutions in the competitive local & global market place.

1.8 Technologies they are working on:

They are successful because they adapt concurrent technologies required by market. They have technical expertise in following areas -

Android

They work on Mobile App development and have some number of software solutions for Android.

Web Development

They started their development work in web sector and since then they have done a lot of works in it.

1.9 What They Serve in Training:

They serve the following sectors to their clients –

- ❖ Software Development
- ❖ Web Development
- ❖ Mobile Apps Development
- ❖ CCNA
- ❖ MikroKit
- ❖ Database Administrator
- ❖ Digital Marketing
- ❖ UI/UX
- ❖ Graphics Design
- ❖ Logo Design
- ❖ Fundamental Computer

Learning

1.10 The Beginning

I joined Nebulas IT on September 01, 2020. I signed a contract with them for six months. My position was “Front End Developer Intern”. Firstly, they offered two platforms, between which I had to learn and worked for Web and after observing my progress and effort they taught me Backend and let me work with them to one of their live projects for the rest period. Now I am also trainer for two courses which is front end development and fundamental computer.

1.11 Web Development

Web programming, also known as web development, is the creation of dynamic web applications. Examples of web applications are social networking sites like Facebook or e-commerce sites like Amazon.

There are two broad divisions of web development – front-end development (also called client-side development) and back-end development (also called server-side development).

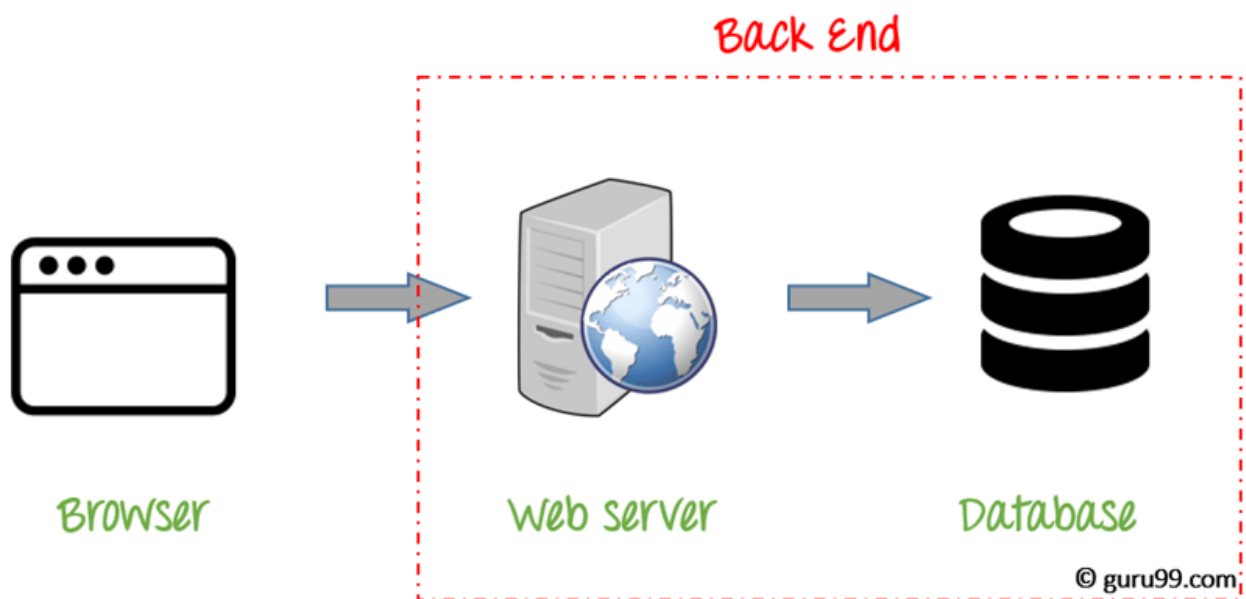
❖ Front End Development:

Front-end web development, also known as client-side development is the practice of producing HTML, CSS and JavaScript for a website or Web Application so that a user can see and interact with them directly. The challenge associated with front end development is that the tools and techniques used to create the front end of a website change constantly and so the developer needs to constantly be aware of how the field is developing.

The objective of designing a site is to ensure that when the users open up the site they see the information in a format that is easy to read and relevant. This is further complicated by the fact that users now use a large variety of devices with varying screen sizes and resolutions thus forcing the designer to take into consideration these aspects when designing the site. They need to ensure that their site comes up correctly in different browsers (cross-browser), different operating systems (cross-platform) and different devices (cross-device), which requires careful planning on the side of the developer.

❖ Backend Development:

Back-end Development refers to the server-side development. It focuses on databases, scripting, and website architecture. It contains behind-the-scene activities that occur when performing any action on a website. It can be an account login or making a purchase from an online store. Code written by back-end developers helps browsers to communicate with database information.



Following are the skills you require to become a back end developer:

- ❖ Web Development Languages
- ❖ Database and Cache
- ❖ Server
- ❖ API (REST & SOAP)

Chapter Three

Project

2.1 Doctor Appointment:

Appointment software is a web base software where doctor and nurse can make appointment their patient using this software. Currently it's working only two pc in locally.

2.2 Some Screenshot of UI and Description

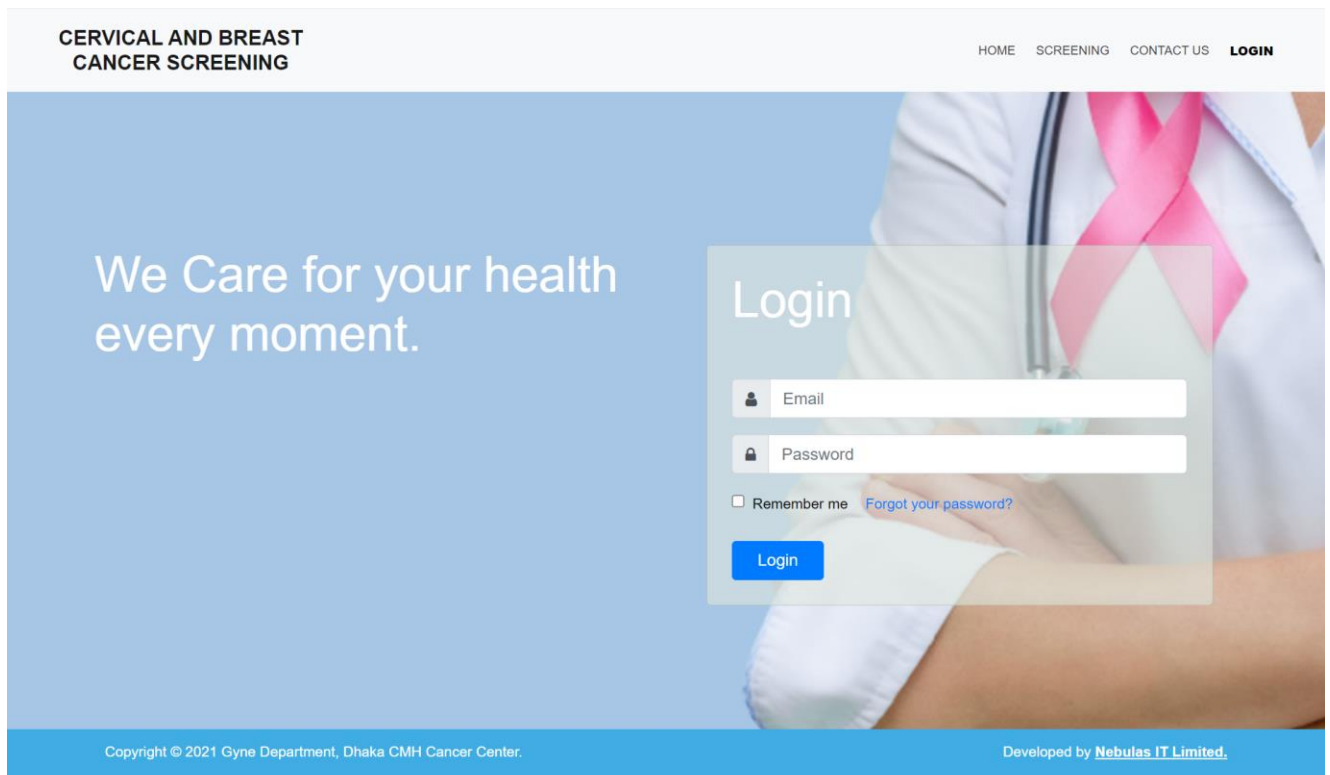


Figure: Home page

Home Page:

This is the home page interface that is displayed when any user visit the site. First of all user can show only home, screening, contact and login popup.

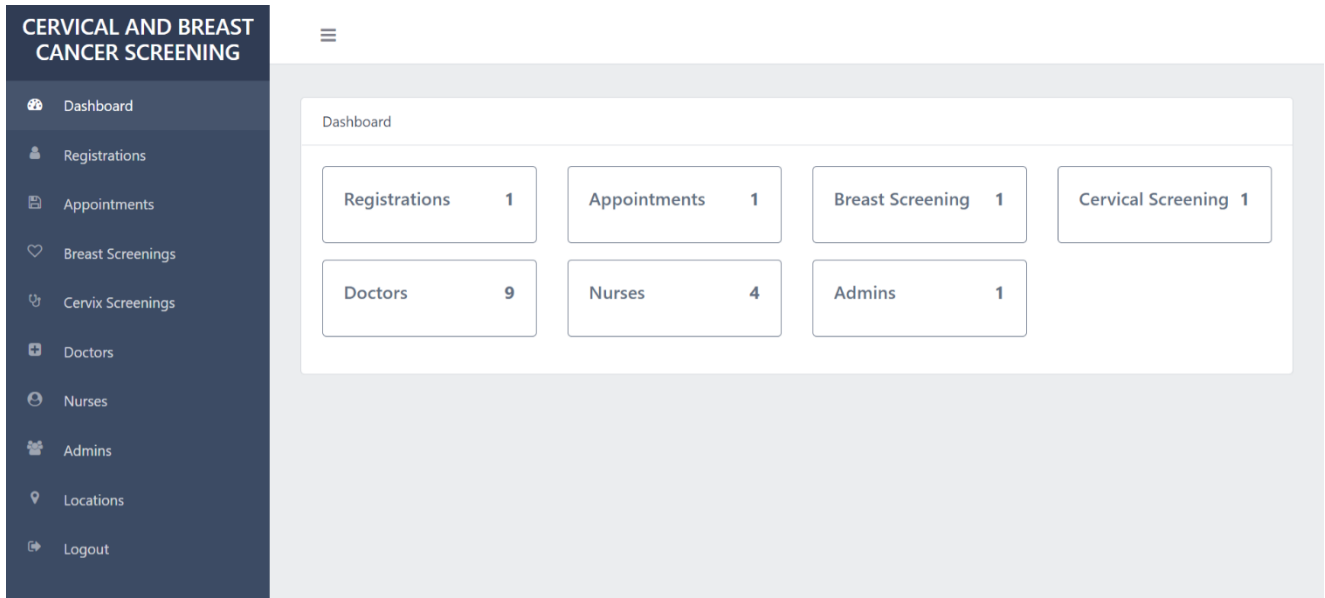


Figure: Admin dashboard

Admin dashboard:

Admin dashboard where admin create new doctor, create new nurse and show all appointments, doctors, nurses and also show breast and cervix screening patient data.

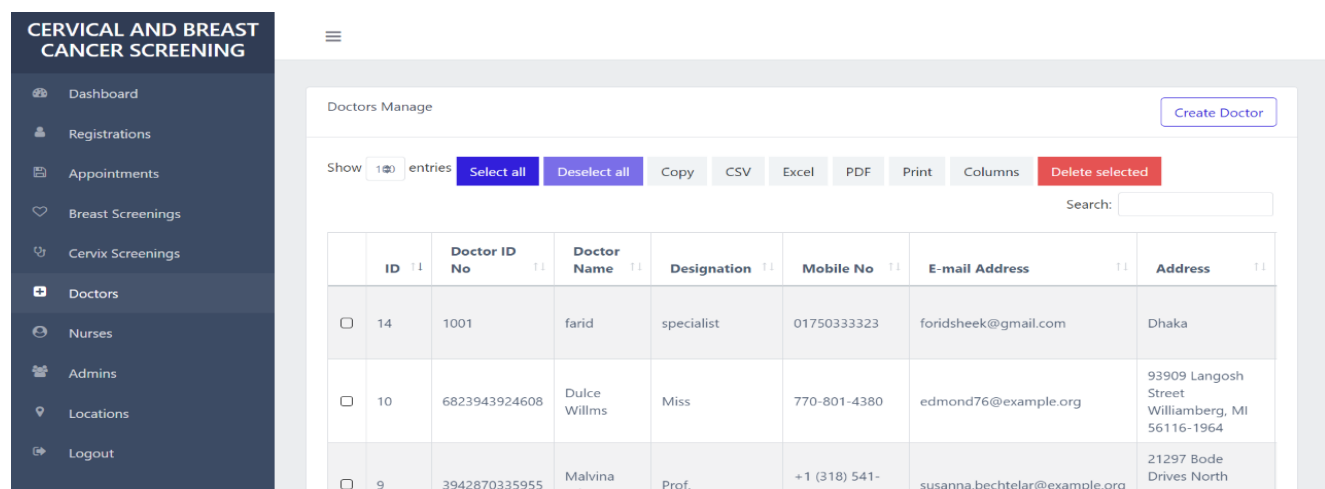


Figure: Create new doctor

Doctors:

When admin click create doctor button one popup form will show after fill up the form and click save button doctor create complete. Here is the create doctor screenshot

The screenshot shows a web application interface for 'CERVICAL AND BREAST CANCER SCREENING'. On the left is a dark sidebar with navigation links: Dashboard, Registrations, Appointments, Breast Screenings, Cervix Screenings, and Logout. The main content area is titled 'Create Doctor' and contains a form with the following fields: ID Number, Doctor Name, Designation, Mobile Number, E-mail Address, Password, Address, and Location (a dropdown menu currently showing 'CMH - 1'). A red 'Save' button is at the bottom left of the form, and a 'Back to list' button is at the top right.

Figure: New doctor create form

The screenshot shows the 'Nurses Manage' section of the web application. It features a table with two rows of nurse data. Above the table are controls for showing entries, selecting/deselecting all, and exporting to various formats (Copy, CSV, Excel, PDF, Print, Columns). A search bar is also present. Each row in the table has 'View', 'Edit', and 'Delete' action buttons.

ID	Nurse ID No	Nurse Name	Designation	Mobile No	E-mail Address	Address	
13	61736335571096	Dr. Aracely Zboncak	Prof.	+1.574.770.3247	felipe.kerluke@example.net	58492 Hartmann Stream Apt. 360 Lake Reinhold, DE 75133	View Edit Delete
12	056013483210468	Mr. Paolo Beahan Jr.	Mrs.	+1.734.664.7567	orlando35@example.org	26417 Nitzsche Branch Suite 188 Malikabury,	View Edit Delete

Figure: Create Nurse

Now I am explain my whole project working procedure.

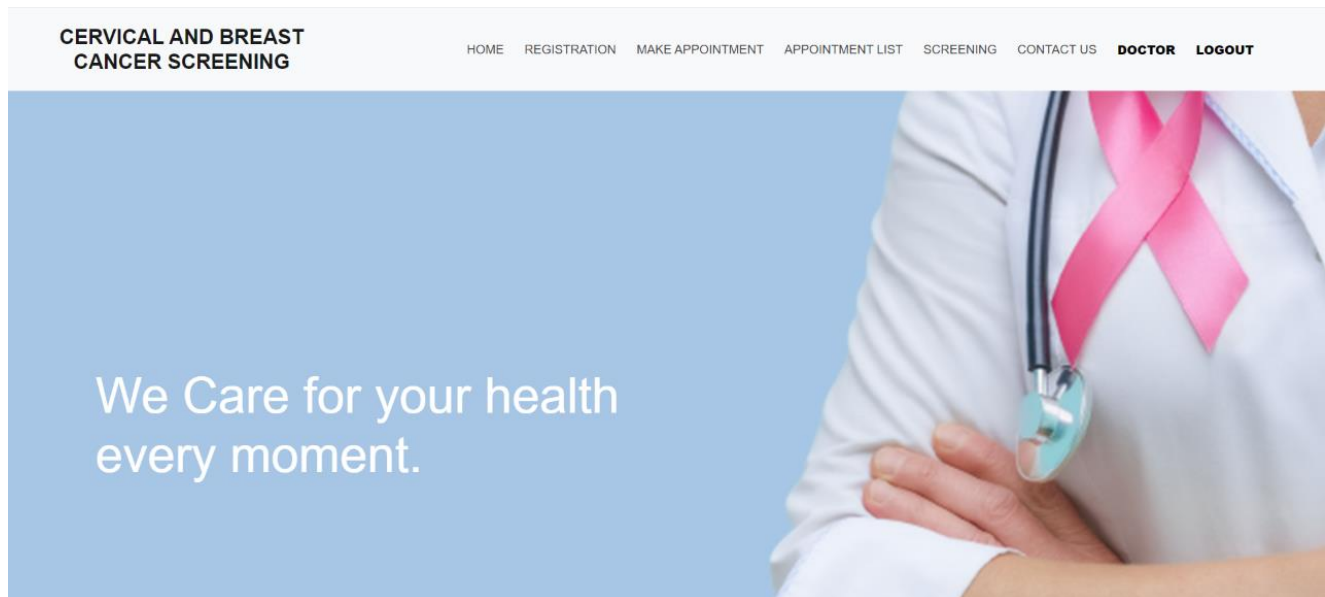


Figure: Logged in user interface

Logged in user interface:

Only display this interface when the user is logged in.

Registration

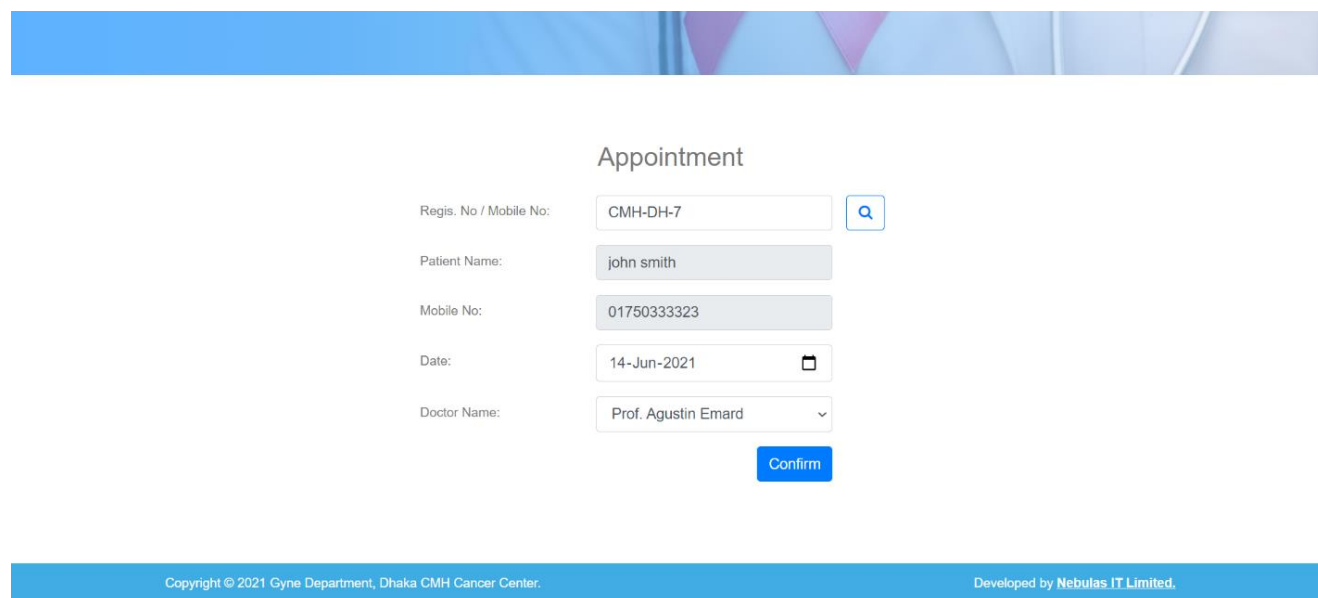
Reg. No / Phone No:	<input type="text"/>	<input type="button" value="Q"/>
Patient Name:	<input type="text" value="john smith"/>	
Mobile No:	<input type="text" value="01750333323"/>	
Age:	<input type="text" value="23"/>	
Patient NID:	<input type="text" value="12345678"/>	
Husband Name:	<input type="text" value="Mr.x"/>	
Husband No:	<input type="text" value="123567"/>	
<input type="button" value="Save"/>		

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Figure: Registration form

Registration form:

First of all nurse or doctor create registration only new user via registration menu when registration form fill up complete and click save button system automatically redirect to appointment menu.



The screenshot shows a web interface for an appointment form. At the top, there is a blue header bar. Below it, the title "Appointment" is centered. The form consists of several input fields: "Regis. No / Mobile No:" with the value "CMH-DH-7" and a search icon; "Patient Name:" with the value "john smith"; "Mobile No:" with the value "01750333323"; "Date:" with a calendar icon and the value "14-Jun-2021"; and "Doctor Name:" with a dropdown menu showing "Prof. Agustin Emard". A blue "Confirm" button is located at the bottom right of the form. At the very bottom of the page, there is a blue footer bar containing the text "Copyright © 2021 Gyne Department, Dhaka CMH Cancer Center." on the left and "Developed by Nebulas IT Limited." on the right.

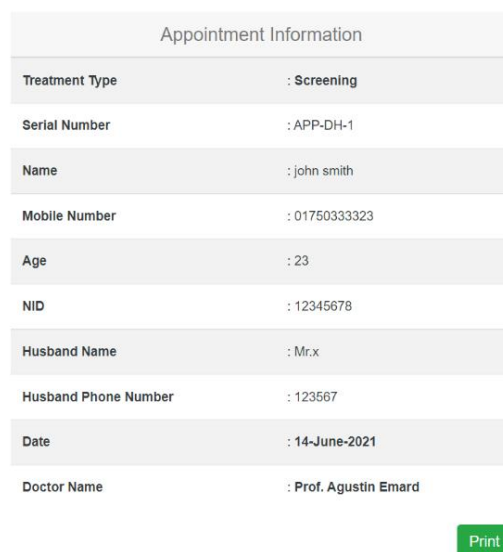
Appointment	
Regis. No / Mobile No:	CMH-DH-7
Patient Name:	john smith
Mobile No:	01750333323
Date:	14-Jun-2021
Doctor Name:	Prof. Agustin Emard
Confirm	

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Figure: Appointment Form

Appointment Form:

Here nurse/doctor select date and doctor name for booking patient appointment. When nurse click confirm button system redirect to appointment information popup interface page where nurse can show the appointment patient all information and also print the appointment via pos printer.



The screenshot shows a web interface for an appointment information popup. The title "Appointment Information" is centered at the top. Below it, there is a table with two columns: the first column contains the field name, and the second column contains the value. The fields are: "Treatment Type" (Screening), "Serial Number" (APP-DH-1), "Name" (john smith), "Mobile Number" (01750333323), "Age" (23), "NID" (12345678), "Husband Name" (Mr.x), "Husband Phone Number" (123567), "Date" (14-June-2021), and "Doctor Name" (Prof. Agustin Emard). A green "Print" button is located at the bottom right of the form.

Appointment Information	
Treatment Type	: Screening
Serial Number	: APP-DH-1
Name	: john smith
Mobile Number	: 01750333323
Age	: 23
NID	: 12345678
Husband Name	: Mr.x
Husband Phone Number	: 123567
Date	: 14-June-2021
Doctor Name	: Prof. Agustin Emard

[Print](#)

Figure: Appointment Information

Patient Appointment Information						
Appointment Number	Appointment Type	Date	Patient Name	Phone Number	Patient Age	Action
APP-DH-1	Screening	14-June-2021	john smith	01750333323	23	<button>Screening</button>

Upcoming Appointment Information						
Appointment Number	Appointment Type	Date	Patient Name	Phone Number	Patient Age	Action
There are no Cervical appointments here						

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Developed by Nebulas IT Limited.

Figure: Appointment List

Appointment List:

When doctor login in and click appointment list menu he/she show the appointment list which is two category base first one is present appointment and second one is upcoming appointment. When doctor finished to seeing his/her patient then doctor will click on the screening button to give a print copy of patient problem.

Breast

Cervical

Breast Screening

Appointment No:

Patient Name:

Mobile No:

Doctor Name:

Presence of Lump:

Discharge:

CBE:

USG:

Mammography:

Figure: Breast Form

Breast

Cervical

Breast Screening Information

Appointment Number	: APP-DH-7
Breast Screening Number	: BRE-DH-3
Doctor Name	: Prof. Agustin Emard
Husband Phone Number	: Mr.x
Husband Name	: 123567
Patient NID	: 12345678
Mobile Number	: 01750333323
Presence of Lump	: Negative
Discharge	: Absent
CBE	: Negative

Figure: Breast screening print form

Breast Screening:

When doctor fill up breast screening form and click save button system automatically show breast screening information and also show print button. When doctor click print

button breast screening information problem copy print automatically via printer machine.

Cervix
Home / Cervix Information

Breast

Cervical

Cervix Information

Appointment Number	: APP-DH-7
Husband Phone Number	: Mr.x
Husband Name	: 123567
Patient NID	: 12345678
Mobile Number	: 0175033323
Complaints	: Watery Discharge
Cervix	: Healthy
Sign	: Normal
VIA	: Positive
Date	: 2021-06-15
Follow Up Date	: 2023-10-14
Pap's Smear Cytology	: Positive
Date	:
Symptom	: Watery Discharge
Follow Up Date	:
LBC	:
Date	:
Follow Up Date	:
HPV DNA	:
Date	:
Follow Up Date	:
Colposcopy	: Normal
CIN	: Cold
Date	: 2021-06-14
Follow Up Date	: 2023-02-14
CIN 2	: LEEP
Date	: 2021-06-23
Follow Up Date	: 2021-06-18
CIN 3	: 2021-06-16
Date	: 2021-06-16
Follow Up Date	:
Histopathology	:
CA CERVIX STAGING (Treatment)	:
Radical Surgery	:
Radiotherapy	:
Adjuvant	:
Follow Up Date	:

Download

Figure: Cervix screening information

Cervix Screening Information:

When doctor fill up cervix screening form and click save button system automatically show cervix screening information and also show download button. When doctor click download button breast screening information problem copy open in another tab after that doctor print the patient problem copy via printer machine.



Patient Appointment Information						
Appointment Number	Appointment Type	Date	Patient Name	Phone Number	Patient Age	Action
APP-DH-1	Screening	14-June-2021	john smith	01750333323	23	Complete

Upcoming Appointment Information						
Appointment Number	Appointment Type	Date	Patient Name	Phone Number	Patient Age	Action

Figure: Action Complete

When the copies of the patient's problem are printed, the action button will be completed automatically from the screening.

2.3 Overview

Doctor Appointment Software is a web based software where doctors and nurses can make their patient appointments.

2.4 Team

Our project manager was Arif Rahman and Backend Developer Moshir Rahman. I was assigned to Front End design and he supervised me.

2.5 How I Contributed

My company provided me the layout psd files. By observing them, I have design the front end according that and made it responsive.

2.6 Technologies and tools used

As there is one language available which is PHP and PHP framework which is laravel.

2.7 Challenges

Responsive design was a little bit tough to calculate for different screen size. I had to research much for it to get rational values by using them we could get responsive dimensions.

2.8 Conclusion

I am very glad to summarize the above Intern report. To summarize this report I can say, I have learnt a lot from the company both technically and professionally.. I had a good lesson about very latest technology to use in a software firm actually in a short period of my intern time I went through a big process and observed how a software company works as I worked on live project under supervision of my project manager, I learnt various sector and observed how the sectors of a software company is related to each other.

Finally, I want to thanks almighty Allah and my honorable supervisor for giving me opportunity to complete my intern report.