



**Senior Design Project**

**A Web and Mobile Application Based Smart  
Online Health Care System**

**MdTalatMahmud ID # 1511653042**

**Md Shahrear Bin Satter ID #1210128042**

**Md Samiul Basir Rabbi ID #1511703042**

Faculty Advisor:

**Dr. Mohammad Monirujjaman Khan**

Associate Professor

ECE Department

Spring, 2019

# LETTER OF TRANSMITAL

May, 2017

To

Dr. K.M.A. Salam

Chairman,

Department of Electrical and Computer Engineering

North South University, Dhaka

Subject: **Submission of Capstone Project on “A Web and Mobile Application Based Smart Online Health Care System”**

Dear Sir,

With due respect, we would like to submit our **Capstone Project Report** on **“A Web and Mobile Application Based Smart Online Health Care System”** as a part of our BSc program.

The report deals with Multi Level Based Home Security System. This project was very much valuable to us as it helped us gain experience from practical field and apply in real life. We tried to the maximum competence to meet all the dimensions required from this report.

We will be highly obliged if you kindly receive this report and provide your valuable judgment. It would be our immense pleasure if you find this report useful and informative to have an apparent perspective on the issue.

Sincerely Yours,

.....  
MdTalat Mahmud  
ECE Department  
North South University, Bangladesh

.....  
Md Shahrear Bin Satter  
ECE Department  
North South University, Bangladesh

.....  
Md Samiul Basir Rabbi  
ECE Department  
North South University, Bangladesh

# APPROVAL

Md Talat Mahmud (ID # 1511653042), Md Shahrear Bin Satter (ID #1210128042) and Md Samiul Basir Rabbi (ID #1511703042) from Electrical and Computer Engineering Department of North South University, have worked on the Senior Design Project titled “An Web and Application Based Smart Online Health Care System” under the supervision of Dr. Mohammad Monirujjaman Khan partial fulfillment of the requirement for the degree of Bachelors of Science in Engineering and has been accepted as satisfactory.

## Supervisor’s Signature

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**Dr. Mohammad Monirujjaman Khan**

## Associate Professor

Department of Electrical Engineering & Computer Science

North South University

Dhaka, Bangladesh.

## Chairman’s Signature

.....

**Dr. K.M.A Salam**

## Associate Professor

Department of Electrical Engineering & Computer Science

North South University

Dhaka, Bangladesh.

# DECLARATION

This is to certify that this Project is our original work. No part of this work has been submitted elsewhere partially or fully for the award of any other degree or diploma. Any material reproduced in this project has been properly acknowledged.

Students' names & Signatures

**1. MdTalat Mahmud**

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**2. MdShahrear Bin Satter**-----

**3. MdSamiul Basir Rabbi**-----

# ACKNOWLEDGMENT

First of all, we wish to express our gratitude to the Almighty for giving us the strength to perform our responsibilities and complete the report.

The capstone project program is very helpful to bridge the gap between the theoretical knowledge and real life experience as part of Bachelor of Science (BSc) program. This report has been designed to have a practical experience through the theoretical understanding.

We also acknowledge our profound sense of gratitude to all the teachers who have been instrumental for providing us the technical knowledge and moral support to complete the project with full understanding.

It is imperative to show our appreciation for our honorable faculty member Dr. Mohammad Monirujjaman Khan for his undivided attention and help to achieve this milestone. Also, our gratefulness is divine to the North South University, ECE department for providing us a course such as CSE 499 in which we could really work on this project and materialize it the way we have dreamt of.

We thank our friends and family for their moral support to carve out this project and always offer their support.

We would also thank “Lab-Aid”, “ICDDR.B”, “Farazy Hospital”, and “Dhaka Medical” for providing the necessary support and advising us during the development of this project.

## **ABSTRACT**

This report presents the design and the implementation of a web and mobile application based system where people can connect with a doctor by video calling those who are in online and patients can be prescribed. Besides that people can also store their all medical information through this system. User of this system will also get notification when they need to take medicine. We have developed a web based system and a mobile application named “Online Health Care”. User of this system expresses the strong desire to own an online web and mobile application which is used for their self-management and directly getting advice from the doctor.