



**North South University**  
**Department of Electrical and Computer Engineering**

**CSE 499B**  
**Section 9**

**Project Report**

**Emergency Ambulance Calling**

**Submitted To**

**DR. SHAHNEWAZ SIDDIQUE**  
**ASSISTANT PROFESSOR**  
**NORTH SOUTH UNIVERSITY**

**Submitted by**

Group 7

Md. Abdullah-Al-Mamun	-	1410964642
Md. Ariful islam	-	1612763042
Tarana Kabir	-	1620404042
Mir Nusrat Mahim	-	1511514642

ECE Department  
Spring, 2021

# DECLARATION

This is to declare that this report is a software-based implementation and is self-contained for the purpose of submission as a part of the Senior Design course in Spring 2021 at North South University and has not been used elsewhere for any other reason. The materials that are obtained from other source are duly acknowledged in this project. Any similarities, in wording, if found to other papers, which has not been cited, is a subject of pure coincidence.

.....  
Md. Abdullah-Al-Mamun  
ECE Department  
North South University

.....  
Md. Ariful Islam  
ECE Department  
North South University

.....  
Tarana Kabir  
ECE Department  
North South University

.....  
Mir Nusrat Mahim  
ECE Department  
North South University

.....

# Approval

The senior Design Project entitled “**Emergency Ambulance Calling**” by

<b>Md. Abdullah-Al-Mamun</b>	<b>ID#1410964642</b>
<b>Md. Ariful Islam</b>	<b>ID#1612763042</b>
<b>Tarana Kabir</b>	<b>ID# 1620404042</b>
<b>Mir Nusrat Mahim</b>	<b>ID#1511514642</b>

has fulfilled all the criteria required for the completion of bachelors in Computer Science Engineering program at NSU on May 2021.

## Supervisor’s Signature

---

**Dr. Shahnewaz Siddique**

**Assistant Professor**  
Department of Electrical and Computer Engineering  
North South University  
Dhaka, Bangladesh.

## Department Chair’s Signature

---

**Dr. Mohammad Rezaul Bari**

**Associate Professor & Chair**  
Department of Electrical and Computer Engineering  
North South University  
Dhaka, Bangladesh

## Acknowledgement

We would like to begin with our gratitude towards North South University's Department of Electrical Engineering and Computer Science for providing us with the platform to showcase our design capabilities, troubleshooting ability and implementation of theoretical knowledge fed to us through the core courses designed in the program and ultimately leading to the completion of senior design project.

Our most sincere gratefulness is to our project supervisor Dr. Shahnewaz Siddique Assistant Professor for his relentless support and motivation throughout the project term for which we shall remain indebted forever. The completion of this project would have been implausible with his support and supervision. We would like to thank Google for creating android platform and keeping it free. Last, but not the least, we would like to thank our family members, friends, fellow classmates and all other personal, to whom we might have caused any inconvenience to, during the project term, for their understanding and support.

## Table of Contents

Emergency Ambulance Calling.....	1
DR. SHAHNEWAZ SIDDIQUE .....	1
Acknowledgement .....	4
Table of Figures:.....	6
Chapter 1: .....	8
Project Overview .....	8
1. Introduction .....	9
1.2 Problem Statement .....	10
1.3 Motivation.....	10
1.4 Project Scope.....	11
Chapter 2: .....	14
Technical Design .....	14
2. Background .....	15
2.1 Emergency Medical Service .....	15
2.2 OLA cab service: .....	16
2.3 UBER Cab service:.....	16
2.4 Remote Panic Button .....	17
2.5 E-AMBULANCE: .....	17
2.6 Panic Attack .....	18
2.7 Current System Evaluation .....	19
2.8 Research and design methodology .....	20
2.9 Our Motive .....	22
Chapter 3: Essential Parts.....	23
3.1 Proposed Model.....	24
3.2 Block Diagram.....	28
3.3 Comparison of current system and proposed system .....	29
3.3 Questionnaire for the application .....	30
Chapter 4: Design Impact.....	31
4.1 Completed so far .....	31

4.2 User Interfaces:.....	32
Chapter 5: Working Sheets .....	37
5.1 System Design .....	38
5.2 Login Activity .....	39
5.3 Hospital Activity .....	39
5.4 MAP Activity .....	40
5.5 User Activity .....	40
5.6 Ambulance Activity.....	41
5.7 Admin Activity.....	41
5.8 Doctor Activity.....	42
Chapter 6: .....	43
Project Summery.....	43
6.1 Upcoming Goals .....	44
6.2 Conclusion.....	44
References .....	73

## Table of Figures:

Figure 1 Flow of the System .....	24
Figure 2 User Usage Flow.....	27
Figure 3 Admin Usage Flow .....	27
Figure 4 User Flow Chart.....	27
Figure 5 Application Block Diagram .....	28
Figure 6 Comparison of Current and Proposed system.....	29
Figure 7 Questionnaire of Application .....	30

Figure 8 Signup Page .....	32
Figure 9 Admin Dashboard .....	33
Figure 10 Login Page .....	33
Figure 11 Nearby Ambulance .....	34
Figure 12 Hospital on map .....	34
Figure 13 Doctor List.....	35
Figure 14 Nearby Hospital .....	35
Figure 15 Login Activity.....	39
Figure 16 Hospital Activity .....	39
Figure 17 Map Activity .....	40
Figure 18 User Activity.....	40
Figure 19 Ambulance Activity .....	41
Figure 20 Admin Activity .....	41
Figure 21 Doctor Activity.....	42
Figure 22 Ambulance.java.....	46
Figure 23 Doctor.java.....	47
Figure 24 Hospital.java.....	47
Figure 25 User.java .....	49
Figure 26 AddAmbulance.java.....	51
Figure 27 Add Doctor.java.....	52
Figure 28 Add Hospital.java.....	53
Figure 29 Admin.java.....	54
Figure 30 Ambulance Activity.java.....	55-58
Figure 31 Hospital Activity.java.....	59-62
Figure 32 Item Click Listener.java .....	63
Figure 33 Login Activity.java.....	64-66
Figure 34 Main Activity.java.....	67
Figure 35 Maps.java.....	68-73

Table 1 Project Scopes .....	12
------------------------------	----