



Senior Design Project

Emergency Medicine Supply (EMS)

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Faculty Advisor:

Dr. Mahdy Rahman Chowdhury

Associate Professor

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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. Mohammed Didarul Islam

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APPROVAL

Mohammed Didarul Islam (ID # 1713066042), [Mrityika Sarker](#) (ID # 1631473042), [Anika Tahasin Opsora](#) (ID # 1620197042), from Electrical and Computer Engineering Department of North South University, have worked on the Senior Design Project titled “[Emergency Medicine Supply](#)” under the supervision of Dr. Mahdy Rahman Chowdhury partial fulfillment of the requirement for the degree of Bachelors of Science in Computer Science and Engineering has been accepted as satisfactory.

Supervisor’s Signature



Dr. Mahdy Rahman Chowdhury

Associate Professor

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Department Chair’s Signature

Dr. Mohammad Rezaul Bari

Associate Professor & Chair

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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.

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ABSTRACT

An Android-based mobile application for online medicine shopping is described in this paper. The Emergency Medicine Supply (EMS) application enables the user to purchase medicines online and also helps any user to identify which medicines are written in the doctor's prescription because of our Optical Character Recognition (OCR) feature. For the interim step of providing service via an Android phone, this system includes user interfaces, pharmacist interfaces, a medicine database, a website, and so on. Users must first register for using this Android application (app). The user and pharmacist must provide their cellphone number and password each time they wish to log in. Pharmacists can add, update, and delete medicines after logging into the program. When a user wants to buy any medicine using the application, they need to add the required medicines to the cart which will be saved in our Firebase Database. After that the user needs to give their delivery details for confirming the order. If any of the ordered medicine is not available, the mobile app will delay the process until a pharmacist responds with a suggestion and confirmation that an equivalent brand of medicine is available. The domain of this system is an Android application. The planned smartphone app is user-friendly for online pharmaceutical purchases. People can now order medicine at any time and from any location using this application. This Android application revolutionized the concept in the pharmaceutical industry, allowing pharmacists and pharmaceutical companies to assist the needy people of Bangladesh.