

Senior Design Project Report

CSE/EEE/ETE 499

CloudHealth+ – A Smart Doctor-Patient Communication system



Submitted By

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Supervisor

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ELECTRICAL AND COMPUTER ENGINEERING

NORTH SOUTH UNIVERSITY

Summer 2020

Agreement Form

We take great pleasure in submitting our senior design project report on "CloudHealth+". This report is prepared as a requirement of the Capstone Design Project CSE/EEE/ETE 499 A & B which is a two semester long senior design course. This course involves multidisciplinary teams of students who build and test custom designed systems, components or engineering processes. We would like to request you to accept this report as a partial fulfillment of Bachelor of Science degree under Electrical and Computer Engineering Department of North South University.

Declared By:

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Dr. Rezaul Bari
Chair, Department of Electrical and Computer Engineering
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DECLARATION

This is to certify and solemnly declare that, this project is our original work. No part of this project has been used elsewhere for the purpose of completion of any degree or diploma. We assert the conclusion drawn from the outcome is from our own research work. All the material that were reproduce in this project were properly acknowledged.

Students' name & Signature

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CloudHealth+ – A Smart Doctor-Patient Communication system

ABSTRACT

Healthcare is considered one of the fundamental basic necessities in most of the developed world. However with a population upwards of 160 million, healthcare is nowhere near as easily accessible as many of our neighbors, which is a primary cause of concern for many people around our country. *CloudHealth+* is a primary health care service designed with a goal to make health care available to anyone within the reach of a mobile network. The application and all the companion services of the *CloudHealth+* platform primarily aims at providing primary health care advice within a short term time frame, tracking medical history automatically and if needed, booking a physical visit to a doctor through the application, online based prescription system for the convenience of doctors and patients amongst other things. Overall the primary goal is to improve the quality of interaction and treatment between the patient and the doctor,

This paper describes our final year project which includes an android mobile application, a web based control panel, a centralized database and a website as part of a broad basic healthcare platform. The application, web based control panel and the web site were all developed using various javascript technologies and php along with MySQL for the database and user access control. Other web development technologies were heavily used as well in the design and interactivity of all the client applications.