

Health Monitoring System

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Certificate

We accept the work contained in this report as a confirmation to the required standard for the partial fulfillment of the degree of BS(EE).

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Dedication

We dedicate our project to the medical and pharmaceutical industry of Pakistan and to our friend and families who always stood with us in every situation.

We also dedicate this dissertation to our lecturers who have supported us throughout the process. We will always appreciate what all they have done, especially "Dr. Atif Jaffri" for giving us this opportunity to work with him and helping us to develop our technology skills.

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Abstract

Our project is a health-monitoring device that consists of multiple health sensors attached to raspberry pi 3 module. And a web interface would be used to collect the data form sensors and store it in centralized database for further processing.

Only Authorized users can have access to the data collected from the device. Application will be secured from DDS / SQL Injections and with encryption (MD5 / Hash). We may implement the IP based restrictions or based on the network solution integrated.

The primary function is to replace the nurses' duties to move from patient to patient 24/7 and give the data access to doctors to monitor them from anywhere. And the secondary function is to help the patients that are admitted in hospitals in remote areas, like this they could have an opportunity to be attended by good doctors that are not available there.

It will be centralized with Wi-Fi or network in the hospital. The concerned person has to just monitor the patients at terminal and of if anything goes wrong he/she will inform the doctor. The target market of our product is pharmaceutical industry that includes hospitals and pharmacies.

Not only the runtime but also it will be saved if we need that report on patient next visit we can get that info from system.

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