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A Dissertation Report on

Smart Health Care Monitoring System Using Raspberry Pi

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CERTIFICATE

This is to certify that the project work titled **Smart Health Care Monitoring System Using Raspberry Pi** is a bonafide work carried out by **1MS12CS039 Himanshu Kumar, 1MS12CS115 Suhail T N, 1MS13CS412 Manoj More S, 1MS13CS421 Suresh V**, in partial fulfillment for the award of **Bachelor of Engineering in Computer Science and Engineering** during the year 2016. The Project report has been approved as it satisfies the academic requirements with respect to the project work prescribed for Bachelor of Engineering Degree. To the best of our understanding the work submitted in this report has not been submitted, in part or full, for the award of said degree.

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We Student of final semester BE, Dept of Computer Science and Engineering, M.S. Ramaiah Institute of Technology, Bangalore, hereby declare that the project entitled “**Smart Health Care Monitoring System Using Raspberry Pi**”, thesis completed and written by me under the guidance of **Prof. S. Rajarajeswari**, Department of Computer Science & Engineering, MSRIT, Bangalore for the partial fulfillment of the requirements for the award of the degree of Bachelor of Engineering has not been formed the basis for award of any other degree or diploma certificate.

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ABSTRACT

Monitoring healthcare in current generation is to be given an utmost importance. Diseases are the brutal hurdles to human beneficiary. One amongst them is the Alzheimer's and Quadriplegia. In order to minimize the difficulties of people who are suffering from Alzheimer or Quadriplegia, this project allows the data of a patient's vital body parameters and movements to be collected by wearable or implantable sensors and communicated using wireless communication techniques. Monitoring the health of affected individuals are achieved by an android mobile application which shows the varying heart beat and temperature. The process involves generation of data from appropriate Sensors that are embedded on the Raspberry pi board. The data generated are sent to the server that is created using Elastic compute Generation II Amazon Web Service and this stored data is sent to the Android Application. If the data read from the prototype is beyond the threshold value then the patient's relatives and the physician will be notified about the same along with his current location. This system for automated health alerts provides a method for detecting health problems very early so that early treatment is possible.

CONTENTS

1	INTRODUCTION.....	1
1.1	General Introduction.....	1
1.2	Statement of the Problem.....	1
1.3	Objectives of the project.....	1
1.4	Project deliverables.....	2
1.5	Current Scope.....	2
1.6	Future Scope.....	3
2	PROJECT ORGANIZATION.....	4
2.1	Software Process Models.....	4
2.2	Roles and Responsibilities.....	5
3	LITERATURE SURVEY.....	6
3.1	Introduction.....	6
3.2	Related Works.....	6
3.3	Conclusion.....	7
4	PROJECT MANAGEMENT PLAN.....	9
4.1	Schedule of the Project.....	9
4.2	Risk Identification.....	11
5	SOFTWARE REQUIREMENT SPECIFICATIONS.....	12
5.1	Product Overview.....	12
5.2	External Interface Requirements.....	12
5.2.1	User Interfaces.....	12
5.2.2	Hardware Interfaces.....	12
5.2.3	Software Interfaces.....	13
5.2.4	Communication Interfaces.....	13
5.3	Functional Requirement.....	13
5.3.1	Functional Requirement 1.1.....	13
5.3.2	Functional Requirement 1.2.....	13
5.3.3	Functional Requirement 1.3.....	13
5.3.4	Functional Requirement 1.4.....	13
5.3.5	Functional Requirement 1.5.....	14
5.4	Software System Attributes.....	14
5.4.1	Reliability.....	14
5.4.2	Availability.....	14
5.4.3	Security.....	14
5.4.4	Portability.....	14
5.4.5	Maintainability.....	15
5.4.6	Performance.....	15
5.5	Performance Requirements.....	15
5.6	Database Requirements.....	16
5.7	Design Constraints.....	16
5.8	Other Requirements.....	16

6	DESIGN.....	17
6.1	Introduction.....	17
6.2	Architecture Design.....	20
6.3	Graphical User Interface.....	22
6.4	Class Diagram.....	22
6.5	Sequence Diagram.....	23
6.6	Data flow diagram.....	25
6.7	Conclusion.....	25
7	IMPLEMENTATION.....	27
7.1	Tools Introduction & Technology Introduction	27
7.2	Overall view of the project in terms of implementation.....	32
7.3	Explanation of Algorithm and how it is being implemented.....	33
7.4	Information about the implementation of Modules.....	33
7.5	Conclusion.....	36
8	TESTING.....	37
8.1	Introduction.....	37
8.2	Testing Tools and Environment.....	38
8.3	Test cases.....	38
8.4	Defect Distribution in module wise.....	48
8.5	Number of defects identified and their status and severity.....	49
8.6	Types of testing performed.....	49
8.7	Conclusion.....	49
9	CONCLUSION & SCOPE FOR FUTURE WORK.....	51
10	REFERENCES.....	52
11	APPENDIX.....	54
11.1	Screen snapshots	54

LIST OF FIGURES

Figure No.	Description	Page No.
1.1	Project Architecture	3
2.1	Overall process in XP	4
2.2	An iteration in XP	4
3.1	System Architecture	7
3.2	Chart Representation of Literature Survey	8
3.3	Proposed System	8
4.1	Gantt chart & Continuation of Gantt chart	10
6.1	Raspberry pi System Architecture	20
6.2	Project Architecture	21
6.3	Flow diagram	21
6.4	Class Diagram	22
6.5	Sequence Diagram for the Overall System	23
6.6	Sequence Diagram for Emergency Event	24
6.7	Sequence Diagram for Android Application	24
6.8	Data Flow Diagram	25
7.1	Angry IP scanners	27
7.2	Putty setup	28
7.3	Putty Terminals.	28
7.4	VNC configurations.	29

Figure No.	Description	Page No.
7.5	VNC Authentications	29
7.6	VNC viewer Virtual window.	30
7.7	Flash magic terminal settings.	31
7.8	Flash magic terminal.	31
7.9	Amazon EC2	31
7.10	Cloud desktop	31
7.11	Complete hardware Implementation	32
7.12	TCRT1000 working	34
7.13	TCRT1000 pin circuit	34
7.14	Accelerometer	35
7.15	RFID CIRCUIT MODULE	35
7.16	Temperature sensor LM35	36
8.1	Testing GSM setup Using Flash Magic	39
8.2	Testing GSM Using Flash Magic	39
8.3	Testing using AVD	41
8.4	JUnit Testing	42
8.5	JUnit Testing (Success)	43
8.6	JUnit Testing (Fail)	43
8.7	Different Phone Models (AVD)	47
8.8	Different OS versions (AVD)	48

LIST OF TABLES

Table Number	Description	Page Number
3.1	Literature Survey Summary	8
4.1	Project Schedule	9
4.2	Risk Identification and Mitigation	11
8.1	Unit Test Case 1	38
8.2	Unit Test Case 2	40
8.3	Unit Test Case 3	40
8.4	Unit Test Case 4	41
8.5	Unit Test Case 5	43
8.6	Unit Test Case 6	44
8.7	Unit Test Case 7	44
8.8	Unit Test Case 8	45
8.9	Unit Test Case 9	45
8.10	Unit Test Case 10	46
8.11	Integration Test Case 1	46
8.12	Integration Test Case 2	47
8.13	Major Challenges	49

LIST OF APPENDIX FIGURES

Figure No.	Description
A.1	Source code for embedded module.
A.2	Code for calculating heart rate
A.3	Code for GPRS setup
A.4	Code for reading RFID content.
A.5	GPRS getting initialized.
A.6	Output of embedded module code which shows Longitude and latitude with heart rate and temperature rate and temperature
A.7	Android app login page
A.8	Application home page
A.9	Received Data From AWS to Application
A.10	On clicking map button ,redirecting the location to Google maps
A.11	Alert 1:notification patient fell down
A.12	Alert 2: notification abnormal heart rate
A.13	Notification message content