**CARE - A COVID-19 QUARANTINE ASSISTANT**

*Project Report Submitted By*

**ALAN JOSEPH**

**Reg. No: AJC16MCA-I7**

*In Partial fulfillment for the Award of the Degree Of*

**INTEGRATED MASTER OF COMPUTER APPLICATIONS**

**(INMCA)**

**APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY**



**AMAL JYOTHI COLLEGE OF ENGINEERING KANJIRAPPALLY**

[Affiliated to APJ Abdul Kalam Technological University, Kerala. Approved by AICTE, Accredited by NAAC with ‘A’ grade. Koovappally, Kanjirappally, Kottayam, Kerala – 686518]

**2020-2021**

## DEPARTMENT OF COMPUTER APPLICATIONS

### AMAL JYOTHI COLLEGE OF ENGINEERING

**KANJIRAPPALLY**



**CERTIFICATE**

This is to certify that the Project report, “**CARE – A COVID-19 QUARANTINE ASSISTANT”** is the bonafide work of **ALAN JOSEPH (Reg. No: AJC16MCA-I7)** in partial fulfillment of the requirements for the award of the Degree of Integrated Master of Computer Applications under APJ Abdul Kalam Technological University during the year 2020-21.

### Mr. Ajith G. S Fr. Rubin Thottupuram

**Internal Guide Coordinator**

**Fr. Rubin Thottupuram**

**Head of the Department**

**DECLARATION**

I hereby declare that the project report **“CARE – A COVID-19 QUARANTINE ASSISTANT”** is a bonafide work done at Amal Jyothi College of Engineering, towards the partial fulfilment of the requirements for the award of the Degree of Integrated Master of Computer Applications (MCA) from APJ Abdul Kalam Technological University, during the academic year 2020-2021.

**Date: Alan Joseph**

**KANJIRAPPALLY Reg. No: AJC16MCA-I7**

**ACKNOWLEDGEMENT**

First and foremost, I thank God almighty for his eternal love and protection throughout the project. I take this opportunity to express my gratitude to all who helped me in completing this project successfully. It has been said that gratitude is the memory of the heart. I wish to express my sincere gratitude to our manager **Rev. Fr. Dr. Mathew Paikatt** and Principal **Dr. Z V Lakaparampil** for providing good faculty for guidance.

I owe a great depth of gratitude towards our Head of the Department **Rev. Fr. Rubin Thottupuram** for helping us. I extend my whole hearted thanks to the project coordinator **Rev. Fr. Rubin Thottupuram** for the valuable suggestions and for overwhelming concern and guidance from the beginning to the end of the project. I would also like to express sincere gratitude to my guide**, Mr. Ajith G. S** for his inspiration and helping hand.

I thank our beloved teachers for their cooperation and suggestions that helped me throughout the project. I express my thanks to all my friends and classmates for their interest, dedication, and encouragement shown towards the project. I convey my hearty thanks to my family for the moral support, suggestions, and encouragement to make this venture a success.

ALAN JOSEPH

## ABSTRACT

The aim of Covid-19 Quarantine Assistant Portal is to improve the working methods of the existing manual system with a computerized system by increasing its efficiency. In this system, people from different state and non-resident Indian’s can easily register on the website, make request for necessary items including their medicines and can update their medical condition. Willing volunteers are selected and assigned to different areas by the Panchayat officials. They carry out the requests of the quarantined people and look after their medical conditions. The medical staff receives each individual test date, manages their urgent medical needs and arranges the necessary facilities. The panchayat officials make sure that everything is running well and checks if there is any complaint. The police officers can also access the details of those who are quarantined and must ensure the same.

**CONTENT**

|  |  |  |
| --- | --- | --- |
| **Sl. No** | **Topic** | **Page No** |
| **1** | **INTRODUCTION** | **1** |
| **1.1** | **PROJECT OVERVIEW** | **2** |
| **1.2** | **PROJECT SPECIFICATION** | **2** |
| **2** | **SYSTEM STUDY** | **4** |
| **2.1** | **INTRODUCTION** | **5** |
| **2.2** | **EXISTING SYSTEM** | **6** |
| **2.3** | **DRAWBACKS OF EXISTING SYSTEM** | **6** |
| **2.4** | **PROPOSED SYSTEM** | **7** |
| **2.5** | **ADVANTAGES OF PROPOSED SYSTEM** | **7** |
| **3** | **REQUIREMENT ANALYSIS** | **9** |
| **3.1** | **FEASIBILITY STUDY** | **10** |
| **3.1.1** | **ECONOMICAL FEASIBILITY** | **10** |
| **3.1.2** | **TECHNICAL FEASIBILITY** | **11** |
| **3.1.3** | **BEHAVIORAL FEASIBILITY** | **11** |
| **3.2** | **SYSTEM SPECIFICATION** | **12** |
| **3.2.1** | **HARDWARE SPECIFICATION** | **12** |
| **3.2.2** | **SOFTWARE SPECIFICATION** | **12** |
| **3.3** | **SOFTWARE DESCRIPTION** | **12** |
| **3.3.1** | **PHP** | **12** |
| **3.3.2** | **MYSQL** | **13** |
| **4** | **SYSTEM DESIGN** | **15** |
| **4.1** | **INTRODUCTION** | **16** |
| **4.2** | **UML DIAGRAM** | **16** |
| **4.2.1** | **USE CASE DIAGRAM** | **17** |
| **4.2.2** | **SEQUENCE DIAGRAM** | **20** |
| **4.3** | **USER INTERFACE DESIGN** | **22** |
| **4.4** | **DATA BASE DESIGN** | **26** |
| **5** | **SYSTEM TESTING** | **38** |
| **5.1** | **INTRODUCTION** | **39** |
| **5.2** | **TEST PLAN** | **40** |

|  |  |  |
| --- | --- | --- |
| **5.2.1** | **UNIT TESTING** | **40** |
| **5.2.2** | **INTEGRATION TESTING** | **41** |
| **5.2.3** | **VALIDATION TESTING** | **41** |
| **5.2.4** | **USER ACCEPTANCE TASTING** | **42** |
| **6** | **IMPLEMENTATION** | **43** |
| **6.1** | **INTRODUCTION** | **44** |
| **6.2** | **IMPLEMENTATION PROCEDURE** | **44** |
| **6.2.1** | **USER TRAINING** | **45** |
| **6.2.2** | **TRAINING ON APPLICATION SOFTWARE** | **45** |
| **6.2.3** | **SYSTEM MAINTENANCE** | **45** |
| **7** | **CONCLUSION & FUTURE SCOPE** | **46** |
| **7.1** | **CONCLUSION** | **47** |
| **7.2** | **FUTURE SCOPE** | **47** |
| **8** | **BIBLIOGRAPHY** | **48** |
| **9** | **APPENDIX** | **50** |
| **9.1** | **SAMPLE CODE** | **51** |
| **9.2** | **SCREEN SHOTS** | **61** |

## List of Abbreviation

|  |  |  |
| --- | --- | --- |
| IDE | - | Integrated Development Environment |
| HTML | - | Hyper Text Markup Language. |
| CSS | - | Cascading Style Sheet |
| SQL | - | Structured Query Language |
| UML | - | Unified Modeling Language |