**ANNA UNIVERSITY: CHENNAI - 600 025**

**BONAFIDE CERTIFICATE**

Certified that this project report “**ANNA UNIVERSITY WEB PORTAL AUTOMATION**” is the bonafide work of “ **MS.ALAGAMMAI, A.ARUN, M.DIVYA, M.GANESH** ” who carried out the project work under my supervision.

SIGNATURE SIGNATURE

**Mrs. B.LANITHA** **Ms. T.N ARUNA**

**HEAD OF THE DEPARTMENT** **SUPERVISOR**

Assistant Professor Assistant Professor

Computer Science and Engineering Computer Science and Engineering

KGiSL Institute of Technology KGiSL Institute of Technology

Coimbatore - 641035. Coimbatore - 641035.

Submitted for the Anna University Viva-Voce examination held on ………….

**Internal Examiner External Examiner**

**External Examiner**

**ACKNOWLEDGMENT**

We express our deepest gratitude to our **CHAIRMAN AND MANAGING DIRECTOR** for providing us with an environment to complete our project successfully.

We are very grateful to our **Dr.R.Ravichandran, Director** and **Dr.D.Govindarajulu, Principal** for their valuable guidance and blessings.

We would like to thank **Mrs. B. Lanitha, Head of the Department** for her unwavering support during the entire course of their project first phase work and who modeled us both technically and morally for achieving greater success in this project work.

We express our sincere thanks to our industry guide **Ms. K. Malarvizhi, Project Engineer** and our faculty guide **Ms. T.N Aruna, Assistant Professor** for their constant encouragement and support throughout our course, especially for the useful suggestions given during the course of the project period and being instrumental in the completion of our project with their complete guidance.

We also thank all the **faculty members** of our department for their help in making this project a successful one.

Finally, we take this opportunity to extend our deep appreciation to our family and friends, for all they meant to us during the crucial times of the completion of our project.

**ABSTRACT**

Anna University Web Portal Automation is used to enter the student mark based on the assessment in the Anna University site. A software ’robot’ is a software application that replicates the action of a human being interacting with the user interface of a computer system. The Robotic Process Automation (RPA) is a framework which is used to configure software to automate huge business tasks. In Anna university web portal automation, comparison with traditional automation tools and how to select a RPA automation tool. It also explains the feature of RPA and data entry in the Anna University site. These frameworks reduce the cost for faculty work and reduce the time for completing the work. While in the traditional automation it is based on the labors skill to complete the work faster. The Humans are under the era of committing the mathematical and parallax errors while in terms of the RPA there is no errors. Even though it might take time to commands and to build the framework to do some work, after the process the work can be done faster and efficient from man-hours and man-years to Minutes and seconds.

**TABLE OF CONTENTS**

**CHAPTER NO TITLE**  **PAGE NO**

**ABSTRACT IV**

**LIST OF TABLES VIII**

**LIST OF FIGURES IX**

**LIST OF ABBREVIATION X**

**1. INTRODUCTION 1**

1.1 Problem Definition 1

1.2 Objective of the project 1

1.3 Significance of the project 2 1.4 Outline of the project 3

**2. LITERATURE REVIEW 4**

**3. SYSTEM SPECIFICATION 5**

3.1 Hardware Requirements 5

3.2 Software Requirements 5

**4. SYSTEM ANALYSIS 6**

4.1 Existing System 6

4.1.1 Drawbacks 6

4.2 Proposed System 6

4.3 Feasibility Study 7 4.3.1 Types of feasibility 7

4.3.1.1 Technical feasibility 8

4.3.1.2 Operational feasibility 8

4.3.1.3 Economical feasibility 8

**5. SOFTWARE DESCRIPTION 9**

5.1 Front End 9 5.1.1 HTML

4.1.1.1 Features 9

4.1.1.2 Advantages 10

5.1.2 CASCADING STYLE SHEET

4.1.2.1 Features 11

4.1.2.2 Advantages 11

5.1.3 BOOTSTRAP

4.1.3.1 FEATURES 11

4.1.3.2 ADVANTAGE 12

5.1.4 JAVASCRIPT

4.1.4.1 FEATURES 12

4.1.4.2 ADAVANTAGE 13

5.2 Back End

5.2.1 MySQL 13

5.2.2 Features 13

**6. PROJECT DESCRIPTION 14**

6.1 Problem definition 14

6.2 Overview of the project 14

6.3 Module description 14

6.3.1 Designing the clone Web page 15

6.3.2 Mapping filename with the data 15

6.3.3 Data entry 15

6.3.4 Reporting and sending the mail 16

6.4 Data Flow Diagram 16

6.5 Database Design 17

**7. SYSTEM TESTING 19**

7.1 Testing Methods 19

7.2 Types of Testing 20

7.2.1 Unit Testing 20

7.2.2 Integration Testing 20

7.2.3 Functional Testing 21

7.2.4 Stress Testing 22

7.2.5 Acceptance Testing 22

7.2.6 White Box Testing 23

7.2.7 Black Box Testing 23 7.3 Test Case 24

**8. SYSTEM IMPLEMENTATION 26**

**9. CONCLUSION & FUTURE**

**ENHANCEMENT 27**

9.1 Conclusion 27

9.2 Future Enhancement 27

**10. APPENDIX 28**

10.1 Source Code 28

10.2 Screen Shots 47

**11. REFERENCES 57**

**LIST OF TABLES**

**TABLE NO TABLE NAME PAGE NO**

6.1 STUDENT TABLE 17

6.2 SUBJECT CODE TABLE 18

6.3 MAILING DETAILS TABLE 18

**LIST OF FIGURES**

**FIGURE NO FIGURE NAME PAGE NO**

6.1 DFD LEVEL 0 16

6.2 DFD LEVEL 1 17

7.1 UNIT TESTING 20

7.2 INTEGRATION TESTING 21

7.3 FUNCTIONAL TESTING 21

7.4 STRESS TESTING 22

**LIST OF ABBREVIATIONS**

**NOTATION ABBREVIATION**

RPA ROBOTICS PROCESS AUTOMATION

PHP HYPER TEXT PREPROCESSOR

MYSQL MY STRUCTURED QUERY LANGUAGE

HTML HYPERTEXT MARKUP LANGUAGE

CSS CASCADING STYLE SHEET

DFD DATA FLOW DIAGRAM

XAMPP CROSS PLATFORM, APACHE, MYSQL, PHP, PERL