

RURAL EMPLOYMENT PORTAL

A PROJECT REPORT

Submitted by

ANANDHU S

In partial fulfilment for the award of the degree

Of

MASTER OF COMPUTER APPLICATIONS



HAJI C.H.M.M COLLEGE FOR ADVANCED STUDIES

CHAVARCODE, PALAYAMKUNNU P.O – 695146

THIRUVANANTHAPURAM DIST

KERALA

UNIVERSITY OF KERALA, THIRUVANANTHAPURAM

August 2023

**HAJI C.H.M.M COLLEGE FOR ADVANCED STUDIES
CHAVARCODE, PALAYAMKUNNU P.O – 695146
THIRUVANANTHAPURAM DIST
KERALA**

MASTER OF COMPUTER APPLICATIONS



BONAFIDE CERTIFICATE

Certified that this project report “**RURAL EMPLOYMENT PORTAL**” is the Bonafede work of
ANANDHU S who carried out the project work under my supervision.

Reg. No: 95521801006

Mr. HariKrishnan S.R
Associate Professor

HEAD OF THE DEPARTMENT

Mr. HariKrishnan S.R
Associate Professor

INTERNAL GUIDE

EXTERNAL EXAMINER

ACKNOWLEDGEMENT

I would like to express my gratitude to God for giving me good health and better courage to accomplish this project successfully.

I express my sincere gratitude to the Director of **MCA Prof. (Dr). SIRAJUDEEN. M**, for providing me an opportunity for doing this project work.

Special thanks to **Mr. HARIKRISHNAN S R**, Associate Professor, Head of Department for his expert and valuable advice, inspiration and facilities rendered throughout for successful completion of the project.

I take this opportunity to express my sincere gratitude and indebtedness to my Internal guide **Mr. HARIKRISHNAN S R**, Associate Professor, Head of Department for providing all possible fruitful discussions to make this project be a success.

With great pleasure I may record my deep gratitude to my parents, friends and to all staff members of **MCA Department** for the immeasurable help rendered to me during the course of the project.

ANANDHU S

TABLE OF CONTENTS

ACKNOWLEDGEMENT	iv
LIST OF TABLES	vii
LIST OF FIGURES	viii
ABSTRACT.....	ix

CHAPTER

1. INTRODUCTION	1
1.1. Objective of The Problem	1
1.2. Statement of the Problem.....	3
2. SYSTEM ANALYSIS	4
2.1. Existing System	6
2.2. Disadvantage of Existing System	6
2.3. Proposed System.....	7
2.4. Advantages of Proposed System	7
2.5. Feasibility Study	8
3. SYSTEM SPECIFICATION	11
3.1. Software Requirements.....	11
3.2. Hardware Requirements	11
4. SYSTEM DESIGN.....	12
4.1. Context Level Diagram.....	14
4.2. Data Flow Diagram.....	15
4.3. ER Diagram	22
4.4. Database Design	23
4.5. Design of Each Sub System.....	39
4.6. UML Diagrams... ..	40
4.6.1 Use Case Diagram	40
4.6.2 Sequence Diagram	45

CHAPTER

5. CODING	46
5.1. Language Study	46
5.2. Cascading Style Sheets:	47
5.3. Bootstrap	48
5.4. JavaScript	49
5.5. Python	51
5.6. Django framework	52
5.7. SQLite3 DATABASE	55
5.8. Functional Description	57
6. TESTING	66
6.1. Levels of Testing	66
7. IMPLEMENTATION	69
7.1. Implementation of Proposed System.	69
8. SECURITY AND BACKUP RECOVERY MECHANISM	71
9. CONCLUSION	72
10. FUTURE ENHANCEMENT	73
APPENDIX	74
Input and Output Forms	74
BIBLIOGRAPHY	77

LIST OF TABLES

Tables

Public Table	28
Panchayath Table... ..	28
ADS Member Table... ..	29
Work Employee Table... ..	30
Work Request Table... ..	31
Notification Table... ..	31
Work Complete Table... ..	32
Complaints Table... ..	32
Reply Table... ..	32
User Table... ..	33
Employee Attendance Table... ..	33
New Work Table... ..	34
Feedback Table... ..	34
Work Assign Table... ..	35
Salary Table.....	35
Message Table.....	36
Reply Table.....	36

LIST OF FIGURES

Figure

4.1Context Level Diagram.....	14
4.2.1 Level 1.1 DFD	15
4.2.2 Level 1.2 DFD	16
4.2.3 Level 1.3 DFD	17
4.2.4 Level 1.4 DFD	18
4.2.5Level 1.5 DFD	19
4.2.6Level 1.2.1 DFD	20
4.2.7 Level 1.2.2 DFD	21
4.3.1 ER Diagram.....	22
4.5 Design of Each Subsystem	38
4.6 Use Case Diagram	39
4.7.1Sequence Diagram	44

ABSTRACT

The Rural Employment System is a pivotal social welfare initiative undertaken by the Government of India, strategically addressing the dire employment needs of the rural population. In vast rural areas across the country, a significant proportion of the impoverished populace predominantly relies on the income derived from unskilled labor. Recognizing the imperative need to alleviate poverty and foster livelihood security in these rural households, the government has instituted a transformative program. This program guarantees a minimum of 100 days of wage employment in every financial year to households whose adult members willingly engage in unskilled manual work.

The primary objective of this program is to empower rural communities, elevating their socioeconomic status and reducing their vulnerability to economic uncertainties. By ensuring a steady stream of employment opportunities, it seeks to uplift the lives of those who have historically struggled with limited access to sustainable income. Moreover, the program is not merely a one-time intervention but embodies an enduring commitment to the betterment of rural livelihoods.

Crucially, the Rural Employment System goes beyond just implementation. It necessitates a systematic framework for continuous review, monitoring, and evaluation of processes and outcomes. This commitment to ongoing assessment ensures that the program remains effective and adaptive to the evolving needs and challenges faced by rural communities. It reflects a holistic approach that combines both immediate relief and long-term sustainable development.

In conclusion, the Rural Employment System of the Government of India represents a multifaceted approach to address the pressing issue of rural unemployment and poverty. It stands as a beacon of hope for countless rural households, offering not only short-term economic relief but also a pathway to enduring prosperity. Through its unwavering dedication to monitoring and evaluation, it remains a dynamic force for positive change in the lives of rural citizens across the nation.