### HOMECHEF WEB APPLICATION

### INSTANT ACCESS TO HOME COOKED MEALS

**A MINI PROJECT REPORT**

#### *Submitted by*

#### S A SUNIL ALDO

#### 142224621057

***In partial fulfillment for the award of the degree of***

# MASTER OF COMPUTER APPLICATIONS

****

**SRM VALLIAMMAI ENGINEERING COLLEGE**

**(An Autonomous Institution)**

**SRM NAGAR, KATTANKULATHUR**

**ANNA UNIVERSITY, CHENNAI 600 025**

**MAY, 2025**

**BONAFIDE CERTIFICATE**

Certified that this project report **“HOMECHEF WEB APPLICATION - INSTANT ACCESS TO HOME COOKED MEALS”** is the Bonafide work of **“SUNIL ALDO S A (14224621057)”** who carried out the project work under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

Signature of the Project Guide

Mr. K. Maniraj M.Sc., M.Tech., (Ph.D)

Assistant Professor (Sr. Gr),

Department of Computer Applications,

SRM Valliammai Engineering College,

Kattankulathur.

Signature of the Project Coordinator

Dr. K. Ponmozhi, M.Tech., Ph.D.,

Associate Professor,

Department of Computer Applications,

SRM Valliammai Engineering College, Kattankulathur.

Signature of the HOD

Dr. S. Parthasarathy MCA., M.Tech., MBA., Ph.D.

Professor and Head,

Department of Computer Applications,

SRM Valliammai Engineering College,

Kattankulathur.

**Submitted to the University Examination held on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ at SRM Valliammai Engineering College, Kattankulathur.**

**INTERNAL EXAMINER HOD**

**ACKNOWLEDGEMENT**

The present research work has reached its zenith with the constant help and encouragement from many people. Present study is the product of the interaction of a number of minds. Knowingly and unknowingly, many people have contributed to the completion of this study. Therefore, I earnestly thank all those who have helped me in the pursuit of my research

At the outset I express my deep respect and earnest thanks and cavernous sense of gratitude to our esteemed Founder Chairman & Chancellor **Dr. T. R. Paarivendhar**, **Thiru. Ravi Pachamuthu**, Chairman SRM Group & Pro-Chancellor (Admin). **Ms. R. Harini**, Correspondent, SRM VEC and authorities of SRM Valliammai Engineering College for the patronage of our welfare rooted in the academic year.

We express our heartfelt thanks to our Director, **Dr.B.Chidhambara Rajan,M.E., Ph.D.,** and we acknowledge our Principal **Dr. M. Murugan, M.E., Ph.D.,** with respect for his leadership and presence throughout our academic journey. We extend our sincere gratitude to our Vice Principal, **Dr. S. Visalakshi, M.E., Ph.D.,** for her unwavering commitment and dedication that have greatly contributed to the growth of the institution and pursuit department of excellence.

We extend our heartfelt gratitude to our Professor and Head of the Department – Computer Applications, **Dr. S. Parthasarathy, M.C.A., M.Tech., M.Phil., M.B.A., Ph.D.,** for his unstinted support and encouragement to motivate us to push our boundaries and achieve our goals.

We sincerely thank our project coordinators **Dr. V. Santhana Marichamy, M.C.A., M.E., Ph.D.,** and **Mr.M.Nagarajan, MCA.,M.Tech.,(Ph.D)** for their dedicated supervision and valuable guidance throughout the project. Their timely support and insightful feedback were crucial to the successful completion of our work.

We gratefully acknowledge our project guide, **Mr.K.Maniraj, M.Sc., M.Tech (Ph.D)**, for his consistent support and expert advice that helped us overcome challenges and complete our project effectively. We would also like to thank all the teaching and non-teaching staff members of our department for their support during the project work, especially for providing us with the essential facilities.

**ABSTRACT**

This project presents the design and development of a web-based food service platform that connects home cooks with students and working professionals residing in PGs and rented accommodations. The platform aims to address the challenges faced by individuals who struggle with daily cooking due to busy schedules, limited access to kitchen resources, and lack of reliable cooking help. Users can book services from cooks who offer in-home cooking, takeaway meals, or event-based catering.

The system supports three main roles: Admin, Cooks, and Users. Users can register, browse available chefs, personalize their meal preferences, and book cooking services as per their needs. Cooks can manage their profiles, update availability, and handle bookings, while the Admin oversees platform operations to ensure efficiency and reliability.

The project also explores the use of personalization techniques and machine learning-based recommendation algorithms to enhance user satisfaction. Additionally, it addresses challenges such as meal planning, ingredient sourcing, and dietary customization.

Experimental results indicate that the platform improves access to healthy, home-cooked meals and provides a practical solution to modern-day cooking constraints.

# 

|  |  |  |
| --- | --- | --- |
| **TABLE OF CONTENTS** | | |
| **Chapter** | **Title** | **PageNo** |
|  | **ABSTRACT** | i |
| **I** | **INTRODUCTION** | 1 |
|  | 1.1 Problem Definition | 1 |
|  | 1.2 System Environment | 2 |
| **II** | **SYSTEM ANALYSIS** | 3 |
|  | 2.1 System Description | 3 |
|  | 2.2 Literature Study  2.3 Problem Analyzed  2.4 Objective | 4 |
|  | 2.5 Use Case Model | 5 |
|  | 2.6 Software Requirement | 6 |
| **III** | **SYSTEM DESIGN** | 7 |
|  | 3.1 Architecture Design | 7 |
|  | 3.2 Structural Design | 10 |
|  | 3.3 Behavioural Design | 14 |
|  | 3.4 Table Design | 16 |
|  | 3.5 User Interface Design | 16 |
|  | 3.6 Deployment Design | 20 |
|  | 3.7 Navigation Design | 22 |
| **IV** | **SYSTEM TESTING** | 24 |
|  | 4.1 Test Cases and Test Reports | 24 |
| **V** | **SYSTEM IMPLEMENTATION** | 26 |
| **VI** | **CONCLUSION** | 28 |
|  | 6.1 Conclusion | 28 |
|  | 6.2 Future Enhancement | 28 |
|  | **APPENDIX** | 29 |
|  | **REFERENCES** | 37 |
|  | **SDG CERTIFICATION** | 38 |