

UZHAVAN-EQUIPMENT RENTING SYSTEM

A PROJECT COMPONENT REPORT

Submitted by

DURAI VIGNESH.C (Reg.No.202104032)

MANIESH RAJA.G (Reg.No.202104080)

YOGESHWARAN.M (Reg.No.202104261)

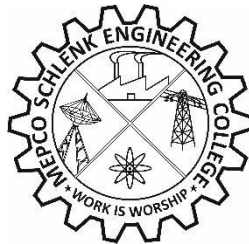
for the Theory Cum Project Component

of

19CS391 – PROGRAMMING WITH JAVA

during

III Semester – 2022 – 2023



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

MEPCO SCHLENK ENGINEERING COLLEGE, SIVAKASI

(An Autonomous Institution affiliated to Anna University Chennai)

December 2022

MEPCO SCHLENK ENGINEERING COLLEGE, SIVAKASI

(An Autonomous Institution affiliated to Anna University Chennai)

Department of Computer Science and Engineering

BONAFIDE CERTIFICATE

Certified that this project component report titled **UZHAVAN-EQUIPMENT RENTING SYSTEM** is the bonafide work of **C.DURAI VIGNESH (Reg. No. 202104032)**, **G.MANIESH RAJA (Reg. No. 202104080)**, and **YOGESHWARAN.M (Reg. No. 202104261)** who carried out this work under my guidance for the Theory cum Project Component course **“19CS391 – PROGRAMMING WITH JAVA”** during the third semester.

Dr. M.CHENGATHIR SELVI M.E., Ph.D.,
Assistant Professor (Sr. Grade)
Course Coordinator
Department of Computer Science & Engg.
Mepco Schlenk Engineering College
(Autonomous)
Sivakasi.

Dr. J. RAJA SEKAR, M.E., Ph.D.
Professor & Head of the Department
Department of Computer Science & Engg.
Mepco Schlenk Engineering College
(Autonomous)
Sivakasi.

Submitted for viva-Voce Examination held at **MEPCO SCHLENK ENGINEERING COLLEGE (Autonomous), SIVAKASI** on/...../.... **20.....**

Internal Examiner

External Examiner

ABSTRACT

Agriculture forms the backbone of Indian economy and there is always a need of supporting and improving it. Modern agricultural equipment's make farmers work more efficient and easy .As a part of which there are some farmers that are set up to help those farmers who are in need of such equipment's ,where the farmers owns the equipment's and rent those on request to other farmers at liable amounts. At present, farmers need to travel to a place to borrow all the essential needs, which is a tiresome and not a cost effective work. So a smart digital farming is listed as the highest ranking technology opportunity in the latest Global Opportunity report in terms of its expected positive impact on society. This project is on digitizing the process of renting the agricultural equipments by the farmers .We aim at developing an application that farmers can use to get their equipments on rent and also check the availability and renting .We also allow them to book the equipments in advance .It also helps us to get the track of equipments that are on rent .We also aim at developing analytic for the state heads to make better availability of equipments and to keep track of the equipments as well, which could help in providing better support for farmers.

ACKNOWLEDGEMENT

First and foremost, we thank the **LORD ALMIGHTY** for his abundant blessings that is showered upon our past, present and future successful endeavors.

We extend our sincere gratitude to our college management and Principal **Dr. S. Arivazhagan M.E., Ph.D.**, for providing sufficient working environment such as systems and library facilities. We also thank him very much for providing us with adequate lab facilities, which enable us to complete our project.

We would like to extend our heartfelt gratitude to **Dr. J. Raja Sekar M.E., Ph.D.**, Professor and Head, Department of Computer Science and Engineering, Mepco Schlenk Engineering College for giving me the golden opportunity to undertake a project of this nature and for his most valuable guidance given at every phase of our work.

We would also like to extend our gratitude and sincere thanks to **Dr. M.Chengathir Selvi M.E., Ph.D.**, Assistant Professor (Sr. Grade), **Dr.K.Muthamil Sudar M.E.,Ph.D.**, Assistant Professor, Department of Computer Science and Engineering, Mepco Schlenk Engineering College for being our Project Mentors. They put their valuable experience and expertise in directing, suggesting and supporting us throughout the Project to bring out the best.

Our sincere thanks to our revered **faculty members and lab technicians** for their help over this project work.

Last but not least, we extend our indebtedness towards our beloved family and our friends for their support which made the project a successful one.

TABLE OF CONTENTS

CHAPTER NO.	TITLE	PAGE NO.
	ABSTRACT	ii
	LIST OF TABLES	v
	LIST OF FIGURES	vi
1	INTRODUCTION	1
2	EXISTING & PROPOSED MODEL	2
3	SYSTEM DESIGN	4
	3.1 Use Case Diagram	4
	3.2 Class Diagram	5
	3.3 Design Components	6
	3.4 Database Description	6
	3.5 User Interface Design	9
4	SYSTEM IMPLEMENTATION	14
5	RESULTS AND DISCUSSION	15
	5.1 Test Cases and Results	15
6	CONCLUSION AND FUTURE ENHANCEMENT(S)	17
APPENDIX – A	SYSTEM REQUIREMENTS	18
APPENDIX – B	SOURCE CODE	18
	REFERENCES	110

LIST OF TABLES

Table No.	Table Caption	Page No.
3.1	User Description	6
3.2	Admin Description	7
3.3	Bill Description	7
3.4	Equipment Details	13
5.1	Positive Test Case and result for Login	11
5.2	Negative Test Case and result for Login	11
5.3	Positive Test Case and result for Admin Login	12

LIST OF FIGURES

Figure No.	Figure Caption	Page No.
3.1	Architecture Diagram of UZHAVAN-Equipment Renting	4
3.2	Class Diagram of UZHAVAN-Equipment Renting	5
3.3	Registration page for users	9
3.4	Login page	9
3.5	Home Page	10
3.6	Add new product page	10
3.7	View Product page	11
3.8	Product Bill	11
3.9	Admin Page	12
3.10	Admin page 2	12
3.11	Admin page 3	13