

MAR THOMA INSTITUTE OF INFORMATION TECHNOLOGY

CHADAYAMANGALAM P.O, AYUR

(Affiliated to the University of Kerala & Approved by AICTE)



CASE STUDY REPORT

On

BLOCKCHAIN AND IT'S INTEGRATION IN IOT

Submitted in partial fulfillment of the requirements for the award of the

Degree of Master of Computer Applications from the University of Kerala

Presented By
PARVATHY RAJ U
Reg.No:95520455034

DEPARTMENT OF COMPUTER APPLICATIONS
MAR THOMA INSTITUTE OF INFORMATION TECHNOLOGY
AYUR
2022

MAR THOMA INSTITUTE OF INFORMATION TECHNOLOGY

CHADAYAMANGALAM P.O, AYUR

(Affiliated to the University of Kerala & Approved by AICTE)



CERTIFICATE

Certified that this is a bonafide record of case study report done on

BLOCKCHAIN AND IT'S INTEGRATION IN IOT

Presented By

PARVATHY RAJ U
Reg.No:95520455034

*Of Third Semester MCA in partial fulfilment for the award of the
Degree of Master of Computer Applications from the University of Kerala*

Internal Guide

Asst.Prof.Priji Punnoose

Head of the Department

Asso.Prof.Priji Kurian Isac

Principal

Dr.K.Jacob

ACKNOWLEDGEMENT

I take this opportunity to express my deep sense of gratitude and sincere thanks to all who helped to complete this report successfully.

I am extremely thankful to almighty God for being my guiding light throughout the preparation of this report and every success I received is due to his grace.

I express my profound and sincere gratitude to **Prof.Dr.K.Jacob, Principal of Mar Thoma Institute of Information Technology, Ayur** for the immense support and gratitude rendered by him.

I would like to express my heart felt gratitude to **Asso.Prof. Priji Kurian Isac, Head of the Department of MCA Mar Thoma Institute of Information Technology.**

I would like to express my heart felt gratitude to **Asst.Prof.Priji Punnoose Mar Thoma Institute of Information Technology** who led me up to the finishing point of this case study.

I wish to express my thanks to the faculty members of **Department of Computer Applications Mar Thoma Institute of Information Technology, Ayur** for giving all kinds of supports.

PARVATHY RAJ U

ABSTRACT

IoT devices have become an integral part of our lives. The world has witnessed an exponential growth in the number of IoT devices. Managing these devices and the data generated by them has become very crucial. Data security and users' privacy are becoming more difficult as the number of devices grows. Blockchain, the technology behind Bitcoin, is known for data security and managing and efficiently maintaining huge amounts of data. Blockchain stores data in a chronological manner and in an immutable way. Integration of blockchain in IoT infrastructure has many advantages. It highlights the adoption of blockchain in IoT infrastructure and reviews recent papers in this field.

TABLE OF CONTENTS

CHAPTER NO	TITLE	PAGE NO
1	INTDRODUCTION	1-2
2	LITERATURE REVIEW	3-5
3	METHODS AND ALGORITHM	6-8
4	PROBLEM DEFINITION	9
	4.1PROBLEM ANALYSIS AND DISCUSSION	9-13
	4.2FEASIBILITY STUDY	14
5	SYSTEM DESIGN	15
	5.1 INTRODUCTION	15
	5.2 MODULES DESCRIPTION	15-16
6	CONCLUSION AND FUTURE ENHANCEMENT	17
7	REFERENCES	18