VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA CAMPUS, BELGAVI-590018

PROJECT REPORT

ON

"IDENTITY MANAGEMENT SYSTEM USING BLOCKCHAIN"

Submitted in partial fulfilment of the award of degree in

BACHELOR OF ENGINEERING

IN

INFORMATION SCIENCE & ENGINEERING

By

ABHISHEK R BHAT	**4AL20IS001**
MOHAMMED SUFIYAN	**4AL20IS027**
PRASAD R ACHARI	**4AL20IS037**
SUJAN P S	**4AL20IS051**

Under the Guidance of

Dr. PRADEEP V

Associate Professor

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

MOODBIDRI-574225, KARNATAKA

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ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY
MIJAR, MOODBIDRI D.K. -574225, KARNATAKA

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CERTIFICATE

This is to certify that the Project entitled **"Identity Management System using Blockchain"**
has been successfully completed by

ABHISHEK R BHAT	**4AL20IS001**
MOHAMMED SUFIYAN	**4AL20IS027**
PRASAD R ACHARI	**4AL20IS037**
SUJAN P S	**4AL20IS051**

the bonafide students of the **Information Science & Engineering Department, Alva's Institute of Engineering and Technology, Moodubidire, in partial fulfillment of 8th Semester, BACHELOR OF ENGINEERING,** affiliated to **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI, during** the year 2023–2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The Project report has been approved as it satisfies the academic requirements in respect of Project work Phase-2 -18CSP83 prescribed for the Bachelor of Engineering Degree.

Dr. Pradeep V
Associate Professor
Guide

Dr. Sudheer Shetty
Professor
HOD ISE
Dept. Of Information Science & Engineering
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225

Dr. Peter Fernandes
Principal PRINCIPAL
Alva's Institute of Engg. & Technology
Mijar. MOODBIDRI - 574 225, D.K

EXTERNAL VIVA

Name of the Examiners

1. Dr. Sudheer Shetty
2. Dr. Ritesh Parkala

Signature with Date

29/5/24

29/05/24

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ABSTRACT

As the digital landscape expands, traditional identity management systems struggle to keep pace, leaving individuals vulnerable to data breaches, security lapses, and limited control over their personal information. Blockchain technology emerges as a transformative solution, offering a decentralized, secure, and transparent approach to identity management. This project delves into the development of a blockchain-based identity management system, empowering individuals to reclaim ownership and control over their digital identities. The proposed system leverages a decentralized ledger to store and manage identity credentials, safeguarding personal data through robust cryptographic mechanisms. Embracing a self-sovereign identity model, users gain granular control over their information, selectively sharing it with authorized entities. Verifiable credentials, issued and verified using secure cryptographic protocols, ensure the authenticity and integrity of identity claims. The blockchain-based identity management system holds immense potential for various applications, ranging from secure online authentication and authorization to streamlined e-government services. Its implementation is poised to revolutionize identity management, enhancing security, empowering users, and streamlining processes across diverse domains.