A Mini Project Report on

Blockchain based Identity Management System

Submitted By

Prakruti Bhavsar **21104067**

Payal Gupta **21104057**

Urvi Joshi **21104100**

Under the Guidance of

Mr. Mandar Ganjapurkar

DEPARTMENT OF INFORMATION TECHNOLOGY

A.P. SHAH INSTITUTE OF TECHNOLOGY

G.B. Road, Kasarvadavali, Thane (W), Mumbai-400615

UNIVERSITY OF MUMBAI

Academic Year: 2024-25

CERTIFICATE

This to certify that the Mini Project report on **Blockchain based Identity Management System** has been submitted by **Prakruti Bhavsar** (21104067), **Payal Gupta** (21104057) and **Urvi Joshi** (21104100) who are a Bonafede students of A. P. Shah Institute of Technology, Thane, Mumbai, as a partial fulfilment of the requirement for the subject of ITL801 Blockchain Lab in degree of **Information Technology**, during the academic year **2024-2025** in the satisfactory manner as per the curriculum laid down by University of Mumbai.

Mr. Mandar Ganjapurkar
Guide

External Examiner(s)
1.
2.

Place: A.P. Shah Institute of Technology, Thane
Date:

ACKNOWLEDGEMENT

This project would not have come to fruition without the invaluable help of our guide **Mr. Mandar Ganjapurkar**. Expressing gratitude towards our HoD, **Dr. Kiran Deshpande**, and the Department of Information Technology for providing us with the opportunity as well as the support required to pursue this project. We would also like to thank our peers for their helpful suggestions.

ABSTRACT

The Blockchain-based Identity Management System is designed to enhance the privacy, security, and efficiency of managing personal data across various digital services. Users initially register their personal information, such as full name, gender, date of birth, address, and a unique identifier (e.g., Aadhaar card number), which is securely stored on a blockchain. When interacting with online services, such as purchasing motor insurance, users only need to provide their unique user ID and relevant details like age and insurance preferences. The system verifies the eligibility, such as confirming that the user meets the age requirement for insurance, using the blockchain-stored data, eliminating the need for repetitive submissions of sensitive information. This system minimizes the risk of data theft and allows users to engage with digital services with confidence, knowing that their personal information remains secure and under their control. While the example of motor insurance is used here, the same framework can be extended to a wide range of services, such as healthcare, banking, and more, making it a versatile solution for digital identity management.

TABLE OF CONTENTS