Vemana Institute of Technology

Affiliated to Visvesvaraya Technological University, Belagavi

Bengaluru - 560034

PROJECT PROPOSAL

BLOCKCHAIN BASED DATA INTEGRITY SYSTEM

SYNOPSIS

In today's digital world, everything from phone bills to diplomas is available online and we need mechanisms in place to authenticate these digital documents. Employers and academic institutions often face challenges in verifying credentials due to the risk of falsified certificates. Current methods rely on centralized databases, which are susceptible to tampering, data leaks, and attacks from hackers. There is a pressing need for a decentralized and tamper-proof system to securely store and verify academic records.

The objective of this project is to design and develop a blockchain-based system that allows universities to store academic records; mainly digital diplomas — securely. Employers and authorized university officials will be able to verify the authenticity of these records via the blockchain. This ensures the integrity and immutability of academic credentials, reducing the risk of fraud and adding ease of verification for employers.

By the end of the project, we expect to have a fully functional blockchain-based system for academic record storage and verification. The system will provide a secure, decentralized way to store and validate academic records, ensuring that the records are tamper-proof and easily verifiable by authorized parties.

Batch Number 15

5th Semester - CSE 'B'

Muhammed Abdul Muid - 1VI22CS064

Rohan Reddy - 1VI22CS097

Santhosh Kumar S - 1VI22CS106

Vishwas S - 1VI22CS125

Project Guide

Prof. Menaka A