VARDHAMAN COLLEGE OF ENGINEERING

# (AUTONOMOUS)

Shamshabad - 501 218, Hyderabad

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**B. TECH VIII SEMESTER CSE-D**

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| **BATCH 2018-22** | **PROJECT WORK**  **2021-22** | **ACADEMIC YEAR 2021-22** |

**Batch Id :** 18CSPW-D22

**Title of the Project :** A BLOCK CHAIN TOKEN BASED ACCESS CONTROL FOR DISTRIBUTED CLOUD COMPUTING

# TEAM MEMBERS

|  |  |  |  |  |
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**GUIDE DETAILS**

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| --- | --- | --- |
| **Name of the Guide** | : | Mr k Raghu |
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| **Area of interest** | : | Data Mining, Image Píocessing, Speech Píocessing |

## Signature of the Projects Incharge

***Signature of the Guide with Date***

## Signature of the Project Coordinator

**Batch Id :** 18CSPW-D22

**Title of the Project :** A BLOCK CHAIN TOKEN BASED ACCESS CONTROL FOR DISTRIBUTED CLOUD COMPUTING

# ABSTRACT

Block chain is a system of recording information in a way that makes it difficult or impossible tochange, hack, or cheat the system. A block chain is essentially a digital ledger of transactions that is duplicated and distributed across the entire network of computer systems on the block chain.

Recently, cloud storage systems have become a popular means of data storage and sharing in a wide spectrum of application scenarios. Various cloud storage system allows multiple users edit the same documents at same time. Therefore, some issues on access controls might emerge.

This project provides an access control over the data stored in the cloud without the provider participation. The main tools of access control mechanism is cipher text policy, attribute-based encryption scheme with dynamic attributes. In this we use Attribute key generation algorithm it takes as input global parameters, global users identifier, an attribute belonging to a user, andthe secret key. The output is a key for this attribute /identifier pairs. The another algorithm is Public key attributes generation algorithm.

# Objective

1. Access control is generally a policy or procedure that allows, denies or restricts access toa system.
2. It is designed to create decentralized services based on the block chain.
3. Attribute based Access Control System.
4. It stores information about the owner, access policy, a hash sum of the stored information, information to identify the cloud, and all changes that will occur with thefile.

# Scope of Work:

Token Control

# Commercializabale: No

**REFERENCES:**

1. S. Wang et al., “An efficient file hierarchy attribute-based encryption scheme in cloud

computing,” IEEE Trans. Inf. Forensics Security, vol. 11, no. 6, pp. 1265–1277, Jun. 2016.

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Trans. Forensics Security, vol. 11, no. 8, pp. 1661– 1673, Aug. 2016.

1. J. Zhou, Z. Cao, X. Dong, and X. Lin, “TR-MABE: White-box traceable and revocable multiauthority attribute-based encryption and its applications to multi-level privacypreserving e-healthcare cloud computing systems,” in Proc. IEEE Conf. Comput. Commun., 2015, pp. 2398–2406.

# Date of Submission: 25-10-2021

## Signature of the Guide with Date

***Signature of the Project In-Charge***