

SYNOPSIS OF THE PROJECT

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Shared Folder/Git Repository Details	https://github.com/SAFEELA/MainProject
Project Title	Verity: Blockchain Based Framework to Detect Insider Attacks in DBMS
<p>Description of Project: —: Insider attacks is where someone with administrative privileges tampers with the data pose a unique challenge. It will make changes in the database. Sometimes it may leads to loss of data. Verity– is to detect insider attacks in databases. Verity serves as a dataless framework by which any blockchain network can be used to store fixed-length fingerprints of tuples from any SQL database, without complete migration of the data. Hash value of each record is calculated. Hash is stored in the block chain. When attack is occur then the hash value will changed. Then comparing the hash values we can identify whether the database is attacked or not. Verity uses a formalism for intercepting SQL queries and their results to check the respective tuples' integrity using the fingerprints stored on the blockchain, and detect an insider attack. In gui part we are having a check attack button.If any one made change in the database then first we fetch the hash value then compare with current hash value stored in the blockchain.to store the number of rows along with the fingerprint in order to find out whether any existing rows are removed or inserted any records by the perpetrator. Through verity interface, the authorized administrator makes modifications to the data and whatever the modification is done, we have to log the details into the blockchain along with the digital signature (for traceability).Activity log is stored in the blockchain.</p>	
Front end	Front End: HTML,CSS,JS
Backend	Python