**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**CS65: MINI PROJECT TERM: March - July 2022**

**PROJECT SYNOPSIS**

**18/04/2022**

**PROJECT TEAM MEMBERS**

| **Sl. No** | **USN** | **Name** |
| --- | --- | --- |
| 1 | 1MS19CS089 | Prajwal S |
| 2 | 1MS19CS080 | Narasimha Bharadwaj M R |
| 3 | 1MS19CS092 | Pruthviraaj U |

**Title of the Project:**

**Edurity: Blockchain Technology to secure digital records.**

**Project Stream:** *Blockchain*

**Problem Statement:** Paper based certificates are prone to frauds and manipulation. They can be easily digitalized and changed, which compromises the credibility of the certificate. It is therefore very important to validate the certificates and maintain them in a safe and secure manner.

**Objective:**

* To avoid third party invasion for records storage and to implement a tamperproof system to enable safety of digital records and certificates.
* To implement a blockchain based certificate storage technology to avoid any misrepresentation or forgery of digital signatures and data.
* To improve efficiency of examination of records from physical to digital, to prevent malpractices like false validation or manipulation.

**Scope of the Project:** The risk of manipulating documents not only affects the one doing it but also the institutions under which all these activities take place. Thus extends the scope of this project to institutions of any level, but it is important to have a central authority to validate certificates in the first place. However, not only does certificate validation come for student certificates but also government records or for document verifications. This project primarily focuses on validation of student certificates during his/her tenure in the institution, and makes sure that it is safely stored and not tampered with.

**Hardware & Software to be used:** A PC with windows (7 or above), MAC or Linux with javascript enabled browser

**What contribution to the society would the project make?** This project aims at providing a fool proof system for elimination of fraudulent users who manipulate digital records. The reason why digital records need so much security is because they are intangible and cannot be very easily monitored. Blockchain therefore allows these records to be stored in a decentralized manner which enhances security for those records. The primary focus of this project is to help institutions manage and safely store certificates without any manipulation.

**References**

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**Guide Comments:**

**Signature of the Guide with date**