



# EduSign – Digital Signature Verification Utility

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## OBJECTIVE

To develop a robust web application that offers digital document verification functionality.

## ABSTRACT

In this era of technology every industry is slowly moving towards digital documents and have reduced the usage of physical signed documents. While this helps reduce the wastage of paper it increases the suspicion on the authenticity as the documents are very easy to modify and hold no credibility. EduSign offers Digital Signature functionality for any document format and allows secure transmission, and verification of existing Digital Documents.

## EXISTING SYSTEM

The existing system mainly uses Physical Documents that are hand signed to reduce the mutability of the document. This offers limited credibility and becomes difficult to verify the ownership and authenticity of a document. The current system offers no such medium of verification for digital documents and thus arouses suspicion on the credibility after distribution. It is also extremely difficult to check for changes in the physical

documents and ensure immutability of the physical documents

## PROPOSED SYSTEM

EduSign Works by generating a unique hash and a certificate for each upload document, these documents are then encrypted using a proprietary algorithm and store on the local storage. The certificate generate can be used along with the assigned password to retrieve the original copy of the file. This helps secure transmission of the file without having to worry about prying eyes in the network or the file getting damaged during transmission through different media. EduSign also offers a mutation check and ensures that the uploaded documents have not been modified by the receiver. The received file can be uploaded on the server to check if the file has been modified or not since the original upload.

## Software requirements:

- Languages: JavaScript, HTML, CSS
- Frameworks: NodeJS, Express JS
- External Libraries: Multar, SHA,MD5,FS,Body-Parser
- Database: MongoDB

## FOR DEPARTMENT USE ONLY

Date of verification:  
Signature of the Guide:  
(To be filled by project guide)

Date of submission:  
Signature of Co-ordinator  
(To be filled by project coordinator)