Inscribed Signature

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Abstract- *Signature is the primary mechanism for both authentication and authorization in legal transactions. Handwritten signature identification will help to match possibilities of signatures and finds out whether it is a real one or not. The handwritten signature is regarded as the initial means of identifying the owner who signs the written document based on the implicit assumptions that a person's normal signature may change slowly and is hard to erase.*

I. INTRODUCTION

Signature is the primary mechanism for both authentication and authorization in legal transactions. Handwritten signature identification will help to match possibilities of signatures and finds out whether it is a real one or not. The handwritten signature is regarded as the primary means of identifying the signer of a written document based on the implicit assumption that a person's normal signature changes slowly and is very difficult to erase.

The handwritten signature is one of the ways to authorize transactions and authenticate the human identity compared with other electronic identification methods such as fingerprints scanning, face recognition and retinal vascular pattern screening. The signature of a person is an important biometric attribute of a human being and is used for authorization purpose. Signature verification relate to the process of verifying signatures automatically and instantly to determine whether the signature is genuine.

II. LITERATURE SURVEY

The term signature is generally understood to mean the signing of a written document with one's own hand. However, it is not critical that a signature actually be written by hand for it to be legally valid. It may, for example, be typewritten, engraved, or stamped. The purpose of a signature is to authenticate a writing, or provide notice of its source, and to bind the individual signing the writing by the provisions contained in the document. Signatures plays an major role in our life its mandatory to sign all the required documents. This project helps us when the signature is most needed and its only the source for the completion of any required documents or certificates. Most commonly people tend to stay away from home for the purpose of education, job etc. If they need to get any necessary documents, signature plays an important role. The concerned person has to visit in order to sign. By using this the user can just sign in the place he is present and scan this will be scanned. The signature will be verified and can be used in the required documents hence avoiding the manual work.

III. IMPLEMENTATION

Passports, bank account and insurance usually contain the holder's photograph, signature, date of birth, nationality, and sometimes other means of individual identification. Initially the user enters the id and password for filing up the required details for passport. The id and password once entered gets saved in the database and thus we need to use the same id and password for each entry.

In this project passport details are entered by the user and verified. Bank and Insurance details are managed by admin. After the entries are made future signature verification and matching process occurs. Here the database file which is already stored is verified with the signature that is sent by the user. Pixel matching algorithm compares each pixels of database file with the file which is sent by the user. Static verification is the process of verifying an electronic or paper signature after it has been made while dynamic verification takes place as a subject creates his signature on a digital tablet or a similar device. This project proved a method to verify handwritten signature using static approach.

IV. PROPOSED SYSTEM

The project constitute of notification services. Signature verification involves less electronic control and uses signature images captured by scanner or camera. A signature verification system uses features extracted from scanned signature image. The features used for signature verification are much simpler. In this only the pixels needs to be evaluated

V. CONCLUSION

This project proved a method to verify handwritten signature using static approach. Signatures are considered as the most natural method of authenticating a person's identity. A signature by an authorized person is considered to be the

"seal of approval" and remains the most preferred means of authentication. This static approach could classify all genuine and forged signatures correctly. Generally the failure to recognize or verify a signature was due to poor image quality and high similarity between two signatures. Recognition and verification ability of the system can be increased by using additional features in the input data set. The method used in this project consists of image prepossessing, feature extraction, scaling image, edge detection, threshold calculation and verification. Signature recognition & verification is done where the signature is captured and presented to the user in an image format. Signatures are verified based on parameters extracted from the signature using various image processing techniques. The Signature Recognition and Verification is then implemented. This offline signature verification is being implemented in passport, bank and insurance sector to identify fake signatures. This project aims to reduce the cases of forgery in various sector to a minimum extent.

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