Research for ED- TRACKER Accepts Finger Print and Display the Educational Details of User on Screen of System

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Abstract— In this project, we are creating a mechanism for efficient retrieval of the document using fingerprint & data mining over the cloud. Fingerprint is a technology that helps to find information similar to the reference data by some criteria (features). It is used for tracking the fact of illegal copying of multimedia or electronic documents. The basic algorithm of a "fingerprint" is the statistical evaluation of different features in document mapping, the presence of characteristic elements, and frequently encountered character combinations. Digital fingerprints are very sensitive even to the trivial replacement of symbols in text. In this project we propose the fuzzy search algorithm application in digital fingerprinting technology to fix some of the Fingerprint shortcomings for document mapping.
Key words: Data mining, Fingerprint, Cloud Computing

I. INTRODUCTION

ED-Tracker is a system which is useful to check/verify document of user. In traditional way of document verification process user has to present all documents which is very time consuming and hectic process as user need to travel to that place as well as he/she to carry all documents even when attending interview user need to carry all documents. When user/ authorized person wanted to appoint any employee then previous working details or behavior of employee need to know so for that authorized person has to contact previous places where that employee worked which is time consuming process so this ED-Tracker will helpful to get that details. If user lost his/her documents then he/she has to visit all universities and state board through which he/she complete his/her education and has to do lot of paperwork. This invention present new way for educational details tracking in this authorized person will ask user for finger print or voice pin which is use to extract users documents from ED-database. As ED-Tracker uses finger print or voice pin of user which is unique identity of user so it is easy to check and identify fraud documents. The educational global data base can store the all education detail (Like, 10th, 12th, UG, PG, PHD, etc.). Original documents store by only authorized person of the education organization with the help of user biometric input.

II. PROBLEM STATEMENT

To prepare an architecture for various types of document oriented process for secure and automate document verification and uploading process using finger print authentication.

III. LITERATURE SURVEY

Fingerprint is one of the most important biometrics that has been employed for verification systems. Fingerprint is a technology that helps one to find information similar to the reference data by some criteria (features). This article is an overview of a current research based on fingerprint recognition system. In this paper we highlighted on the previous studies of fingerprint recognition system. We the authentication system uses multimodality feature extraction with techniques with neural network as classifier. Biometric identification suffers a lot of problems such as the storage of user's biometric template. Fingerprints are the most widely used biometric identifier because of their ease of acquisition, storage and further processing for identification/ verification.

IV. SYSTEM ARCHITECTURE

Uploader and downloader are the two users of the system. The uploader has to firstly upload the documents using fingerprint on the ED-database by logining in the system. On the uploader side the uploader has two options as uploading documents and displaying own documents. Uploader can retrieve documents from the ED-database. When downloader needs the document details of uploader the uploader needs to be present their only then and then the downloader can download the documents.

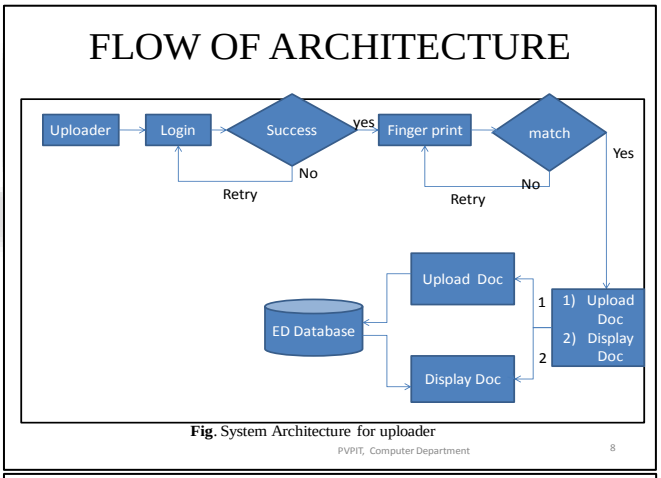

Fig. System Architecture for uploader

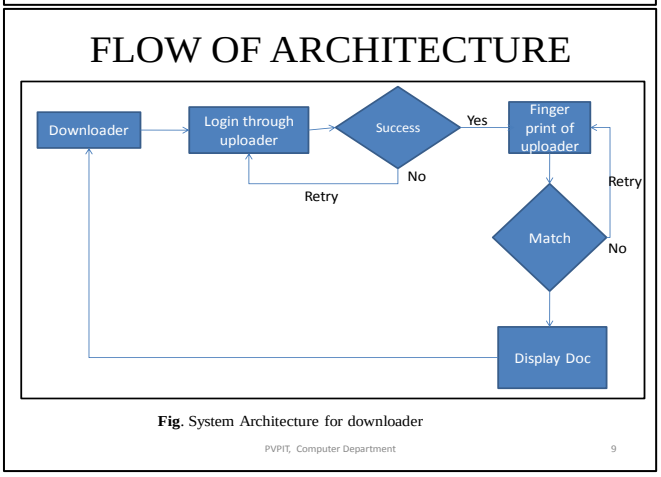

Fig. System Architecture for downloader

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A. Scope of Project

Document mapping is major time consuming and human intensive task and this has been since the invent of paper based verification all the areas.

In this paper we suggest to link the document mapping and retrieval with the fingerprint impression.

B. Algorithm

1) Algorithm I. Data Collection and filtering Algorithm

Input: Finger Print Impression

Output: filtered data in fixed size block and send each block to processing Mechanism

Steps:

1) Filter related data i.e. processed data. All other unnecessary data will be discarded.
2) Divide the Data into Appropriate Key Value Pair.
3) Transmit Unprocessed data directly to aggregation step without processing.
4) Assign and transmit each distinct data block of processed data to various processing steps in Data Processing Unit.

Description: This algorithm takes data and then filters and divides them into segments and performs load-balancing algorithm.

In step 1, related data is filtered out.

In step 2, filtered data are the association of different key value pairs and each pair is different numbers of sample, which results in forming a data block. In Next steps, these blocks are forwarded to process by Data Processing Unit.

2) Algorithm II. Processing and Calculation Algorithm

Input: Filtered Data

Output: Normalized Impression Image for Matching.

Steps:

1) For each area data, the fingerprint and the document data is extracted.
2) Normalize the extracted data for all the data feed.
3) Persist the data into data store and forward it.

Description: The processing algorithm calculates results for different parameters against each incoming filtered data and sends them to the next level.

In step 1, the calculation of various values along with pattern Furthermore, in the next step, the results are transmitted to the aggregation mechanism.

3) Algorithm III. Multiple Document Summarization Algorithm

Input: Normalized Impression Image for Matching.

Output: Final result summary

1) Gather the data from data store in normalized format.
2) Apply Summarization for Individual Document Retrieval
3) Persist the final disruption summary into data store.

Description: here the data is collected and the result from each area is processed against all and then combines, organizes, and stores these results in NoSQL database.

4) Outcome

As ED-Tracker uses finger print of user which is unique identity of user so it is easy to check fraud documents.

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