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FACE RECOGNITION AUTHENTICATION SYSTEM NETBANKING

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ABSTRACT

The Face Recognition is the study of physical or behavioral characteristics of human being used for the identification of person. These physical characteristics of a person include the various features like fingerprints, face, hand geometry, voice, and iris biometric device. These Face Recognition features can be used to make netbanking systems more secure for authentication purpose in banking based account security systems. The ID can be stolen; passwords can be forgotten or cracked but the physical characteristics of a person cannot be stolen or hacked. The Face Recognition identification overcomes all the above. Additional security can be provided using different netbanking characteristic of a person which are unique in nature. The Face Recognition systems several advantages for secure authentication systems.

KEYWORDS: Face Recognition, Software constraint, Hardware and Software Requirements, Risk Analysis, Netbanking, Php, Mysql.

INTRODUCTION

Now a days with the network world, the way for cybercrime is become easier for haking purpose. Because of this reason, network security has become one of the biggest facing today's IT departments security. We heard a lot about hackers and crackers ways to steal any logical password or pin code number character, crimes of ID cards or credit cards fraud or security breaches in any important building and then develop any information or various important data from any organization or company. These problems allow us to know the need of strong facial technology to secure important data and credentials. This technology is based on a technique called "face recognition" using biometric. Biometric is a form of bio-informatics that uses biological properties to identify people. Since biometric systems identification a person by the biological characteristics, they are difficult to fake. Examples of biometrics are iris scan, various signature authentication, voice recognition system and hand geometry system.

Now the face recognition this concept more concern for providing security for internet banking this system are used to image processing systems. More than biometric issue can occur that like a Authority for various Collect and the Use of Personal, Information to Establish a Facial Recognition System, Control of Personal Information from Source Departments, Creation of an Identifier, Systems Lookout Databases, Level of Accuracy, Program Custodian Responsibilities, Notice of the Purpose of Collection, Data Matching Activities, Retention and Disposal, Security Measures Unclear, Transparency in Personal Information Management Practices, Personal Information Bank.

GOAL AND OBJECTIVE

The general objective of our project is to develop fully functional face recognition, verification system provide and understand the key aspects of these major technologies, namely those relating to the technological, application entity domain, social environmental system and performance aspects. Develop a fully operational face and fingerprint recognition application using an object oriented design approach with java. Examine the major biometric technologies of today including, iris, voice, signature, fingerprint, face and hand. Apply application interface standards to the application design and appreciate the need for standardization in application development.

PROBLEM STATEMENT

The problem statement simple and effective approach for Biometric face & image enhancement and minutes extraction based on the frequency and orientation of the local ridges and there by extracting correct minute points.

This face recognition system more than security provide for netbanking concept or personal social media account. This project can provide two type of security method first user can normal login then face recognition for user this user and account user image match then start netbanking process.

MATERIALS AND METHODS

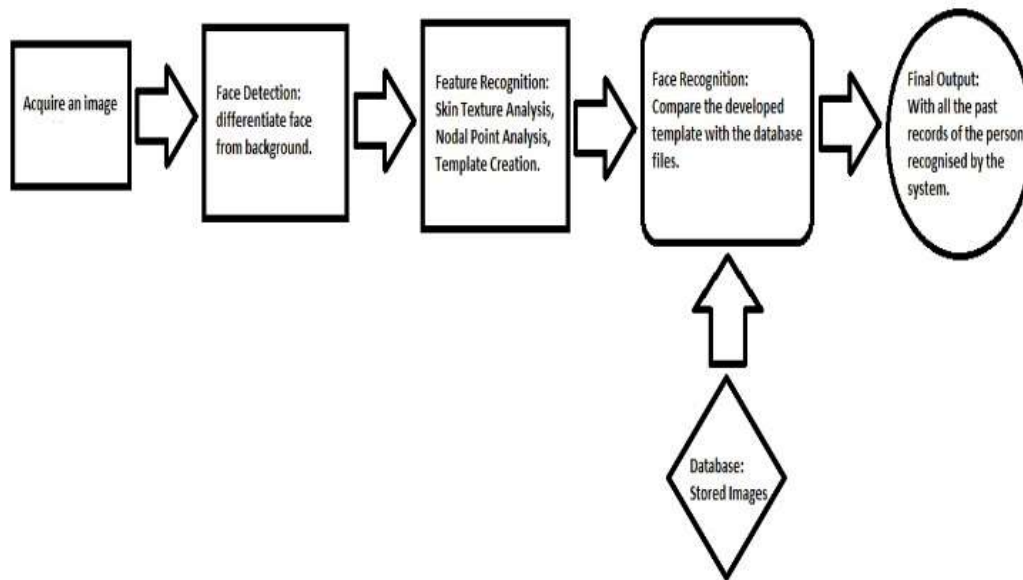


Fig of face recognition system

I. Purpose and Scope of Document:

This document describes the functional, non-functional, software hardware requirements and the importance of a Face recognition system with briefly presenting its input and output functionalities and also this would give an overview to the client and would give detail specification for the developer

II. Overview of responsibilities of Developer:

- Developer deals with the components of the product while describing the product perspective, functional and data requirements, input and output data, general constraints and assumptions of the application briefly.
- It description about the functional and non-functional requirements of the application.
- Most important are software & hardware requirements are mentioned here.

III. USAGE SCENARIO:

There are plenty of usage scenarios involved which given as follows:

- User login
- Image capture and tracking
- Verification
- Matching
- Authentication
- Validation
- Database storage
- Logout

IV. User profiles

The profiles of all user categories are described as follows:

- 1) User:
 - 1.1 User name -ABC
 - 1.2 User age -21
 - 1.3 User contact details
 - 1.4 User system entry count
 - 1.5 User logs
- 2) Administrator
 - 2.1 Admin name -admin123
 - 2.2 Admin credentials
 - 2.3 Admin logs
 - 2.4 Admin system updates logs

- V. Use-cases:
- Use case modeling identifies and describes the system functions by using a tool called use cases.
 - Use cases describe the system functions from the perspective of external users and in a manner and terminology they understand.
 - To accurately and thoroughly accomplish this demands a high level of user involvement and a subject matter expert who is knowledgeable about the business process or event.

- VI. Use Case for User:
- Login
 - Capture photo
 - Verification
 - Matching
 - Authentication
 - Validation
 - Display information (transaction)
 - Logout

Applications

- Nationalize bank safety locker web tools
- Online Shopping
- Online funds
- Online Transaction
- HIPAA Financial
- Transactional Integrators
- Resellers Safes, Door Lock
- Physical
- Bank Account
- Privacy Website account transaction login

CONCLUSION

This project of Web face recognition system by using Web application is definitely based on the computer. These Face Recognition features can be used to make netbanking systems more secure for authentication purpose in banking based security systems. The ID can be stolen; passwords can be forgotten or cracked but the physical characteristics of a person cannot be stolen or hacked. The Face Recognition identification overcomes all the above. Which used bank system security. PHP is used as the programming language because of object oriented, and presence of tools of debugging etc. PHP used as a front-end and MySQL used as the backend. It is considered to be the important key of behind motivating this project. In this way, this system will remove problems of the cyber crime control and safety of internet banking system.

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