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A Smart and Secure Photo Sharing Mobile Application using Machine Learning or api.ai System

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ABSTRACT: Nowadays, people capture photos and record their memories. Photo sharing has become a regular phenomenon these days. People share photos through social media as well as sharing mobile applications or software. But, sharing photos to every individual is difficult. We propose a secure and hassle-free mobile application which will share photos to individuals. In this paper we introduce an application which can share photos automatically with those who are present in photos. application automatically done the process of face detection of individuals from pictures. Then the detected face is compared with the database and sent to the picture to a particular user with all security.

KEYWORDS – Android, File Sharing, Face Detection, Security, Privacy

I. INTRODUCTION

When you ask people what possessions they would rescue from their burning house, one of the most frequent answers is the photograph album or a computer with their digital images. When in panic mode it's interesting that we would probably grab photos rather than valuable jewelry. This impulse to save our recorded memories is a powerful force which tells us much about the role of photography in our lives and our constant desire to distil our most precious moments into images. We preserve the important events and people in our lives. The ceremonies of birth and birthdays, marriages and anniversaries, holidays and new houses are all recorded because they matter. Photographs are our personal story, a timeline of our lives filled with faces and places that we love. They are our story, which we can share with others. The hundreds of images come together to form a narrative of our lives. Sometimes we can capture photos or click selfie in our friends mobile. Taking this picture from the friends is such a difficult task. We can introduce the android application, which can detect the individual face from the photo and share the photo to that person with particular security check. In order for the system to function, it's necessary to implement three steps. First, it must detect a face. Then, it must recognize that face nearly instantaneously. Finally, it must take whatever further action is required, to share photo to particular user. Face detection is a broader term than face recognition. Face detection just means that a system is able to identify that there is a human face present in an image or video. Face recognition can confirm identity. It is therefore used to control access to sensitive areas.

II. LITERATURE REVIEW

1. M.Kushal; Kushal Kumar B.V., Charan Kumar M.J.; M. Pappa The major problems faced by the computer vision is the illumination and the viewpoint of the object, concerning this and by following multiple studies recurring to deep learning with the use of Convolution Neural Networks on detecting and recognizing objects that showed a high level of accuracy and precision on these tasks. To facilitate object detection in a college environment, the proposed work identifies the presence of a person wearing an ID card using tensor flow object detection API, detects and recognizes the face using haar cascade method of OpenCV.
2. Shamma and Md. Yusuf Sarwar Uddin In this paper, they propose techniques and develop a mobile app that can be used as an assistant tool in order to make people aware of their photo content. The app, integrated as a part of phone's built in Camera app, categorically detects faces in an image preview and notify the user about detected faces (if any). The user then uses his/her rightful discretion to share or store the captured picture being respectful that no one's privacy is violated through this capture. Two possible techniques for detecting faces, namely cloud based, and in-phone processing based, are proposed and a few experimental results with the app have been reported.

3. Chenglin Yu Hailong Pei Deep learning is the most important technology in the field of computer vision at present. Compared with traditional face recognition methods, it can extract more essential features of face image without manual participation. In this paper, we build a face recognition system based on neural computing model and the principle of neural network.
4. Chuyang Li, Kun Li, Xin Zheng and Rui Qiu In a group photo, individual facial expressions can fatally affect the quality of the whole photo. However, it is a laborious task for most people to synthesize a perfect group photo using current photo editing software. To solve this problem, an automatic perfect group photo synthesis algorithm is proposed in this paper by judging facial expressions and replacing faces. This algorithm proceeds in four steps. First, faces in group photos are recognized and saved. Then, by evaluating facial expressions for each person, one face with the best expression is selected. Finally, a final synthesizing group photo is produced by color transferring and image completing.

III. PROPOSED SYSTEM

The photo sharing system should provide a variety of functions for users to share photos easily and flexibly, allowing them to manage the photos, and to share photos with other users. It should also provide a variety of operations to easily create and manage their own albums. In this paper we introduce a new application for photo sharing. The photo sharing system should provide a variety of functions for users to share photos easily and flexibly, allowing them to manage the photos, and to share photos with other users. It should also provide a variety of operations to easily create and manage their own albums. In this we can give username and email as input and generate the user id from it and store all information into the database. Then every time at a time of login check the user id and email with the database. If the information get match, then it is authorized user, and they have access for required resources. If information didn't match, then they don't have any access.

IV. SYSTEM ARCHITECTURE

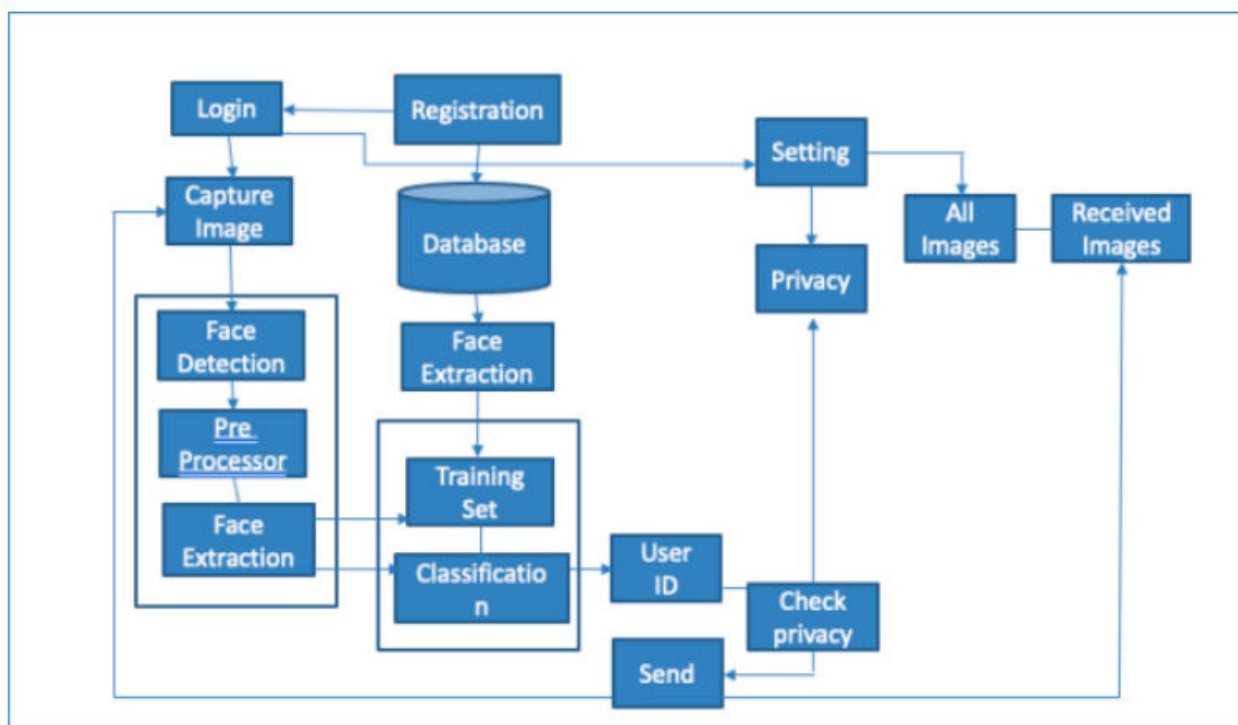


Fig 1. The proposed System model architecture

Fig 2 Login Page

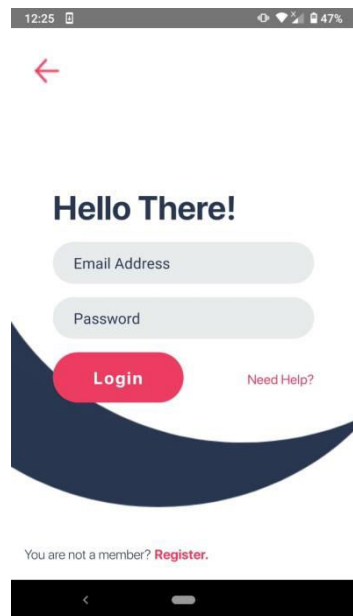


Fig 3 Register Page

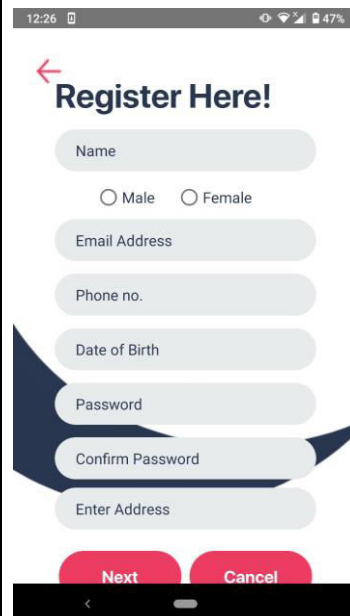
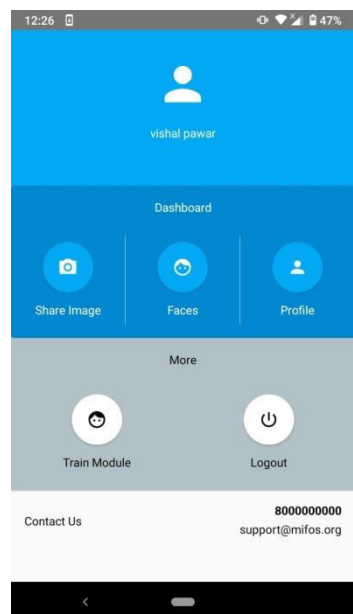


Fig 4 Dashboard



Page Fig 5 Profile Page

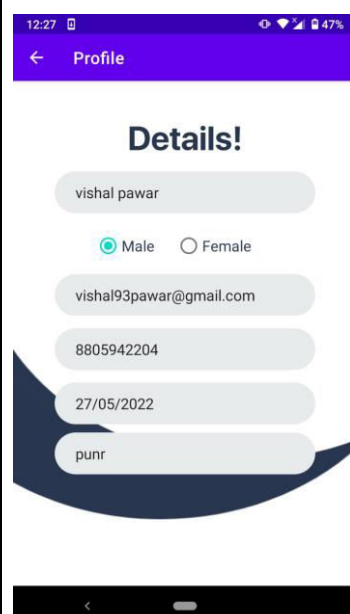


Fig 6 Friend List Page

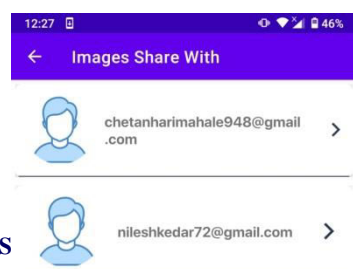
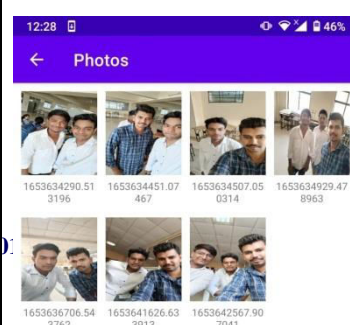


Fig 7 Photo Gallery Page



ALGORITHM

Step 1. Face Detection –

It scans the image or capture Image until it identifies a face. Before matching a face with name, the system checks the image is a face to identify which part of the image contains a face.

Step 2. Face analysis-

It locks on a face, analyses the features.

Step 3. Data matching-

For this we are using TensorFlow, TensorFlow is an open- source software library for numerical computation using data flow graphs. It is a system that transfers complex data structures to artificial neural networks for analysis and processing. It can be used in many areas of deep learning such as speech recognition and image recognition.

- Convolution neural network model CNN Face Classification takes input as a image, then it will process it and classify into the different categories which is stored in our dataset. Our Dataset Contain face of all register user. Where Label Is user id of each person on our Application. The hidden layer of CNN consists Convolutional layer, Activation Function (ReLu, Sigmoid & any other), pooling layers, fully connected layers and normalization layers

OUTCOMES

- The detected face_id is an userid of each person in an application and hence image is share to those respective users using their userid with all privacy and security
- The privacy given by the user have control over the sending photos. So photos will send as per authority
- The Receiver has option to save only those photos in gallery or hide it inside the app

IV. CONCLUSION

Finally conclude, image is an input to the deep neural network which detect face of each user and check images in dataset. This dataset is trained dataset which contain face of each user with their face name and unique face id, this id is used to send images to that individual account. Image sharing is next process that share image to respective user using their id. Images are sent to the user with some privacy. At the receiver end this image is downloaded by user in their gallery.

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