GLA UNIVERSITY

TOPIC : MINI PROJECT SYNOPSIS ON MOOD DETECTION
APPLICATION

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This mini project i.e. **APPLICATION** work will be done by us.

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INTRODUCTION :

Mood detector will boost your current mood. Whether you are happy, sad, angry, surprised, it will certainly try to boost your mood to a great extent. This application will involve Face recognition, Detect Emotion and accordingly will try to make him/her happy.

How will Emotion recognised:

Emotive analytics is an interesting blend of psychology and technology . Though arguably reductive, many facial expression detection tools lump human emotion into 7 main categories: Joy, Sadness, Anger, Fear, Surprise, Contempt, and Disgust. With facial emotion detection , algorithms detect faces within a photo or video, and sense micro expressions by analyzing the relationship between points on the face, based on curated databases compiled in academic environments.

How it works :

Step 1: You can either Select your mood (OFFLINE FEATURE) OR Scan your current mood (REQUIRES INTERNET CONNECTION).

Step 2: Texts, Jokes, Quotes, Images, Memes, Videos, Gifs will be displayed on your newsfeed in order to intensify your detected/selected mood.

Details About the Hardware and the Software

System Requirements:-

Supported operating system:- **Android**

Software Required:- Operating System, Processor ,Storage ,RAM and Internet.

Hardware Requirements:-

For Android Studio:

Android studio

- 64-bit Microsoft® Windows® 8/10.

- x86_64 CPU architecture; 2nd generation Intel Core or newer, or AMD CPU with support for a Windows Hypervisor.

- 8 GB RAM or more.

- 8 GB of available disk space minimum (IDE + Android SDK + Android Emulator)

- 1280 x 800 minimum screen resolution.

Listing Out testing technology

Frontend and Backend :-

Frontend

For developing android app using JAVA language is front end .

Backend

The backend of this app is Google Firebase Firestore database for

storing the data andlater retrieve the data in app.

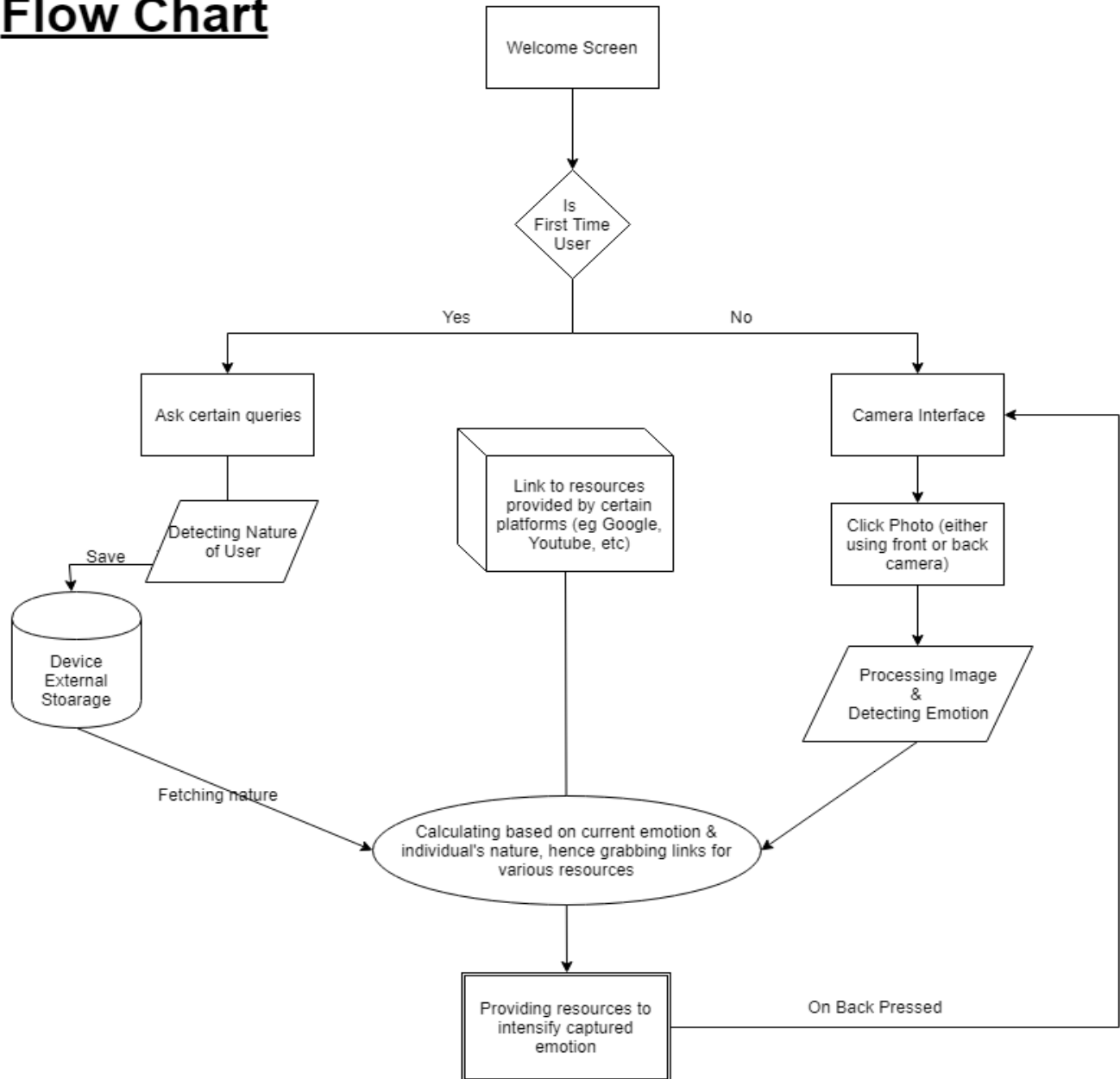## Technology Stack

- Android Studio

- Java Programming

- XML for Layouts

- Google Face Detection API

- Microsoft Cognitive API

- Image Processing

- Smart Animation Library

- Android SDKs

Module Description:

To gain more transparency in emotion detection system this application use face as a key .

Flow Chart

```
                              ┌──────────────────┐
                              │  Welcome Screen  │
                              └──────────────────┘
                                       │
                                       ▼
                                   ╱       ╲
                                  ╱   Is    ╲
                                 ╱ First Time ╲
                                 ╲   User    ╱
                                  ╲         ╱
                                   ╲       ╱
                        Yes                        No
              ┌──────────────────┐           ┌──────────────────┐
              │ Ask certain      │           │ Camera Interface │
              │ queries          │           │                  │
              └──────────────────┘           └──────────────────┘
                      │                               │
                      ▼                               ▼
              ╱ Detecting Nature ╱           ┌──────────────────┐
      Save   ╱   of User        ╱            │ Click Photo      │
             ╱                  ╱            │ (either using    │
                                             │ front or back    │
             ┌──────────┐                    │ camera)          │
             │  Device  │                    └──────────────────┘
             │ External │                             │
             │ Stoarage │                             ▼
             └──────────┘                    ╱ Processing Image ╱
                                             ╱        &         ╱
                                             ╱ Detecting Emotion╱
```

Link to resources provided by certain platforms (eg Google, Youtube, etc)

Fetching nature

Calculating based on current emotion & individual's nature, hence grabbing links for various resources

Providing resources to intensify captured emotion

On Back Pressed

Future Plans

Moodifier can be further extended by detecting emotions not only from Camera interface (Face Recognition) but also from user's speech (Speech Tone Recognition). To achieve this, user's sound & data sets (different emotions with different tone) can be compared.

Refrences:

www.Udemy.com

www.stackoverflow.com

developers.android.com