CSEE 5590 0002

Web/Cloud/Mobile Applications

MOBILE-ASSIGNMENT-2

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**STEP-COUNTER APP**

**Objective:**

To Create a mobile application in which user can start and stop the pedometer.

**Features of the application:**

When a user clicks on start pedometer button, it starts counting the steps and displays the number of steps. When the stop pedometer button is clicked the count should stop irrespective of motion.

**Steps of Execution:**

Home page of Step Counter App

A screenshot of a cell phone

Description generated with high confidence

When the user clicks the start pedometer button and starts moving, app starts counting the steps.

Following are the screenshots which displays the increment in steps

A screen shot of a social media post

Description generated with high confidence

A screen shot of a social media post

Description generated with very high confidence

A screen shot of a social media post

Description generated with very high confidence

A screen shot of a social media post

Description generated with very high confidence

A screen shot of a social media post

Description generated with very high confidence

On clicking Stop Pedometer button, the pedometer stops.

A screen shot of a social media post

Description generated with very high confidence

**Code Snippets:** activity\_main.xml

A screenshot of a social media post

Description generated with very high confidence

MainActivity.java

A screenshot of a social media post

Description generated with very high confidence

**FACE DETECTION APP**

**Objective:**

To Create a mobile application which detects the facial expressions in given input image.

**Features of the application:**

When the button “Scan Face” is clicked, the face detection app asks for the permissions of camera. After allowing the permissions the image is taken and the app starts recognizing the expressions and displays the details of smile probability, left eye probability, right eye probability, etc.

**Steps of Execution:**

The Home Page of Face Detection App:

**A screenshot of a cell phone

Description generated with very high confidence**

After scanning the face, the following attributes are displayed as output.

A screenshot of a cell phone

Description generated with very high confidence

A screenshot of a social media post

Description generated with very high confidence

Different image is given as input

A screenshot of a cell phone

Description generated with very high confidence

A screenshot of a cell phone

Description generated with very high confidence

If the image is not clear, the app cannot scan and displays following output.

A screenshot of a cell phone

Description generated with high confidence

**Code Snippets:** MainActivity.java

**A screenshot of a social media post

Description generated with very high confidence**

**A screenshot of a social media post

Description generated with very high confidence**

**References:**

<https://developers.google.com/vision/android/detect-faces-tutorial>

<https://android-developers.googleblog.com/2015/08/face-detection-in-google-play-services.html>

<https://developer.android.com/guide/topics/sensors/sensors_motion>

**Git-hub Link:**

https://github.com/Ravali2007/CS5590-490