# CSE 535 Project 1 Deadline October 8th, 2019 (Total points: 120)

# This is a group project with a strict group size of four students each

Develop a mobile application such that:

a) it can show video of a gesture to the user, (20 points)

b) the user can learn the gesture, (20 points)

c) it allows the user to replicate the learned gesture and captures a video of the replication, (20 points)

d) uploads to a server (20 points)

The mobile application should have three screens:

Screen 1: Show a drop down menu of 20 different gestures

Gesture list: {gift, car, pay, pet, sell, explain, that, book, now, work, total, trip, future, good, thank you, learn, agent, should, like, movie}

On selection of a single gesture the user will be taken to screen 2

Screen 2: Here the video of an expert performing the gesture will be shown

The video will have to be downloaded on the phone from the SignSavvy ASL gesture repository

<https://www.signingsavvy.com/>

Screen 2 will have another button that should say “PRACTICE”. On pressing this button, the user should be taken to Screen 3.

Screen 3: In this screen the camera interface should be opened for the user to record the practice gesture. The video should be captured for 5 s. The video should be saved with the following format for the video filename

GESTURE\_PRACTICE\_(Practice Number)\_USERLASTNAME.mp4

There should be another button in the Screen 3 with the name UPLOAD

On pressing this button, the user should be able to upload the gesture to a local server. Moreover, clicking this button will also take back the user to screen 1.

Local Server: Develop your own local server in your own laptop.

Usage of the mobile application:

Each team member, performs each gesture atleast thrice and uploads three correct versions of the gesture. You can practice as many times as you want. (10 points for each member)