**Design**

1. Train dataset divided into train and validation
2. Test folder remains with same size with 1 class
3. Create Model to classify images. Use CNN for creating model of 3x3 feature maps, with 2x2 max pooling.
4. Followed by flatten layer and then dence layer with 0.5 dropout.
5. Last is dence layer with 6 classes output.
6. Train, validation and test image generators are created.
7. Predictions are saved in file
8. Same model created is saved in pb format for mobile deployment to work.

**On Desktop Model Execution and Deployment**

1. activate anaconda

2. python Solution.py

3. results.csv generated

4. img\_clasify.pb generated (model to be deployed on mobile to work)

**Steps for using desktop model to work on mobile**

1. Save the give model in graph format in fastfile format.

2. Provide the input and output nodes name.

3. Provide the model name with .pb extension.

4. Now the same model can be used in mobile using tensorflow library for above image detect.