Design Documentation:

Files Description:

1. **addSinglePhoto.m** : Matlab function to add single photo to the database.Database Must already exist in order for this code to run properly.
2. **colorAutoCorrelogram.m** : Matlab function taken from online that returns the AutoCorrelogram of an Image.
3. **CreateDataSet.m** : Matlab Script to create Database of images existing in the folder images.File names must be all numerical.
4. **DataSet.mat** : Trained DataBase of existing images folder
5. **gaborWavelet.m** :Matlab function taken from online to get gabor Transformation Vector information of image.Returns a vector of size 48 .For more information refer to the slide.
6. **Lowpassfilter.m**: Utility function taken online to support **gaborWavelet.m**
7. **waveletTransformation.m**: Matlab function to do a 3-level decomposition on an Image and return a vector of size 40 . For more information refer to the slide.
8. **getHsvData.m:** Matlab Function that returns HSV Data of an Image.For more information refer to the slides.Output of the function is a vector of size 32.
9. **getMoments.m:** Matlab function that returns First two moments-mean and Standard Variance of all three channels of an image.Output is a vector of size 6.
10. **get190Vec.m :** Matlab function that calls all the other vector functions and creates a vector of size 190 containing all the information.
11. **getName.m:** Utility function .
12. **getRoot.m:** Utility function .
13. **Interface.m** : Matlab script to provide Interface to that returns visually similar image for a query Image.For usage refer to Readme.txt