# Generated by Django 2.1 on 2020-02-08 13:16

from django.db import migrations, models

class Migration(migrations.Migration):

    initial = True

    dependencies = [

    ]

    operations = [

        migrations.CreateModel(

            name='Information',

            fields=[

                ('id', models.AutoField(auto\_created=True, primary\_key=True, serialize=False, verbose\_name='ID')),

                ('username', models.CharField(max\_length=30)),

                ('email', models.CharField(max\_length=30)),

                ('city', models.CharField(max\_length=30)),

                ('state', models.CharField(max\_length=30)),

                ('age', models.CharField(max\_length=30)),

                ('address1', models.CharField(max\_length=30)),

                ('address2', models.CharField(max\_length=30)),

                ('post', models.CharField(max\_length=30)),

                ('result', models.CharField(default='', max\_length=30)),

            ],

        ),

    ]

# Generated by Django 2.1 on 2020-02-08 14:01

from django.db import migrations, models

class Migration(migrations.Migration):

    dependencies = [

        ('vision', '0001\_initial'),

    ]

    operations = [

        migrations.CreateModel(

            name='Information1',

            fields=[

                ('id', models.AutoField(auto\_created=True, primary\_key=True, serialize=False, verbose\_name='ID')),

                ('username', models.CharField(max\_length=30)),

                ('email', models.CharField(max\_length=30)),

                ('gender', models.CharField(max\_length=30)),

                ('phone', models.CharField(max\_length=30)),

                ('age', models.CharField(max\_length=30)),

                ('address', models.CharField(max\_length=70)),

                ('test', models.CharField(max\_length=30)),

                ('pid', models.CharField(max\_length=30)),

                ('result', models.CharField(default='', max\_length=30)),

            ],

        ),

        migrations.DeleteModel(

            name='Information',

        ),

    ]

# Generated by Django 2.1 on 2020-02-08 14:02

from django.db import migrations

class Migration(migrations.Migration):

    dependencies = [

        ('vision', '0002\_auto\_20200208\_1401'),

    ]

    operations = [

        migrations.RenameModel(

            old\_name='Information1',

            new\_name='Information',

        ),

    ]

{% extends "index.html" %}

{% load static %}

{% block body %}

<div class="contained"><table class="table table-lite">

</table></div>

{% endblock %}

<!doctype html>

<html lang="en">

  <head>

    <meta charset="utf-8">

    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

    <meta name="description" content="">

    <meta name="author" content="">

    <link rel="icon" href="../../../../favicon.ico">

  {% load static %}

    <title>Plant Disease Prediction</title>

    <!-- Bootstrap core CSS -->

    <link href="{% static 'css/bootstrap.min.css' %}" rel="stylesheet">

    <!-- Custom styles for this template -->

    <link href="{% static 'dashboard.css' %}" rel="stylesheet">

  </head>

  <body>

    <nav class="navbar navbar-dark sticky-top bg-dark flex-md-nowrap p-0">

      <a class="navbar-brand col-sm-3 col-md-2 mr-0" href="#">Plant Disease Prediction</a>

      <ul class="navbar-nav px-3">

        <li class="nav-item text-nowrap">

          <a class="nav-link" href="#">Disconnect</a>

        </li>

      </ul>

    </nav>

    <div class="container-fluid">

      <div class="row">

        <nav class="col-md-4 d-none d-md-block bg-light sidebar">

          <div class="sidebar-sticky shadow">

            <ul class="nav flex-column">

              <li class="nav-item">

                <a class="nav-link" href="entry">

                  <span data-feather="file"></span>

                  New Plant

                </a>

              </li>

              <li class="nav-item">

                <a class="nav-link" href="upload">

                  <span data-feather="file"></span>

                  Quick Test

                </a>

              </li>

              <li class="nav-item">

                <a class="nav-link" href="disease">

                  <span data-feather="users"></span>

                </a>

              </li>

            </ul>

          </div>

        </nav>

        <main role="main" class="col-md-8 ml-sm-auto col-lg-8 pt-3 px-4">

          <div class="d-flex justify-content-between flex-wrap flex-md-nowrap align-items-center pb-2 mb-3 border-bottom">

            <h1 class="h2">Results</h1></div>

            {% block body %}

            <div class="btn-toolbar mb-2 mb-md-0">

              <div class="btn-group mr-2">

                <button class="btn btn-sm btn-outline-secondary">Share</button>

                <button class="btn btn-sm btn-outline-secondary">Export</button>

              </div>

              <button class="btn btn-sm btn-outline-secondary dropdown-toggle">

                <span data-feather="calendar"></span>

                This week

              </button>

          </div>

          <!--canvas class="my-4" id="myChart" width="900" height="380"></canvas>-->

          <div class="table-responsive">

          </div>

          {% endblock %}

        </main>

      </div>

    </div>

    <!-- Bootstrap core JavaScript

    ================================================== -->

    <!-- Placed at the end of the document so the pages load faster -->

    <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js" integrity="sha384-KJ3o2DKtIkvYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN" crossorigin="anonymous"></script>

    <script>window.jQuery || document.write('<script src="../../../../assets/js/vendor/jquery-slim.min.js"><\/script>')</script>

    <script src="../../../../assets/js/vendor/popper.min.js"></script>

    <script src="../../../../dist/js/bootstrap.min.js"></script>

    <!-- Icons -->

    <script src="https://unpkg.com/feather-icons/dist/feather.min.js"></script>

    <script>

      feather.replace()

    </script>

    <!-- Graphs -->

    <script src="https://cdnjs.cloudflare.com/ajax/libs/Chart.js/2.7.1/Chart.min.js"></script>

    <script>

      var ctx = document.getElementById("myChart");

      var myChart = new Chart(ctx, {

        type: 'line',

        data: {

          labels: ["Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday"],

          datasets: [{

            data: [15339, 21345, 18483, 24003, 23489, 24092, 12034],

            lineTension: 0,

            backgroundColor: 'transparent',

            borderColor: '#007bff',

            borderWidth: 4,

            pointBackgroundColor: '#007bff'

          }]

        },

        options: {

          scales: {

            yAxes: [{

              ticks: {

                beginAtZero: false

              }

            }]

          },

          legend: {

            display: false,

          }

        }

      });

    </script>

  </body>

</html>

<!doctype html>

<html lang="en">

  <head>

    <meta charset="utf-8">

    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

    <meta name="description" content="">

    <meta name="author" content="">

    <link rel="icon" href="../../../../favicon.ico">

  {% load static %}

    <title>EYE Vision</title>

    <!-- Bootstrap core CSS -->

    <link href="{% static 'css/bootstrap.min.css' %}" rel="stylesheet">

    <!-- Custom styles for this template -->

    <link href="{% static 'dashboard.css' %}" rel="stylesheet">

  </head>

  <body>

    <nav class="navbar navbar-dark sticky-top bg-dark flex-md-nowrap p-0">

      <a class="navbar-brand col-sm-3 col-md-2 mr-0" href="#">DIAIRIS</a>

      <ul class="navbar-nav px-3">

        <li class="nav-item text-nowrap">

          <a class="nav-link" href="#">Disconnect</a>

        </li>

      </ul>

    </nav>

    <div class="container-fluid">

      <div class="row">

        <nav class="col-md-4 d-none d-md-block bg-light sidebar">

          <div class="sidebar-sticky">

            <ul class="nav flex-column">

              <li class="nav-item">

                <a class="nav-link" href="entry">

                  <span data-feather="file"></span>

                   New Patient

                </a>

              </li>

              <li class="nav-item">

                <a class="nav-link" href="upload">

                  <span data-feather="file"></span>

                  Diabetes Test

                </a>

              </li>

              <li class="nav-item">

                <a class="nav-link" href="disease">

                  <span data-feather="users"></span>

                  Disease

                </a>

              </li>

            </ul>

          </div>

        </nav>

        <main role="main" class="col-md-8 ml-sm-auto col-lg-8 pt-3 px-4">

          <div class="d-flex justify-content-between flex-wrap flex-md-nowrap align-items-center pb-2 mb-3 border-bottom">

            <h1 class="h2">New Patient</h1></div>

            {% block body %}

            <form method="post">{% csrf\_token %}

    <div class="form-row">

    <div class="form-group col-md-6">

      <label for="inputEmail4">Name</label>

      <input type="text" class="form-control" id="username" placeholder="Patient Name" name="username" required>

    </div>

    <div class="form-group col-md-6">

      <label for="inputPassword4">Age</label>

      <input type="text" class="form-control" id="number" placeholder="Age" name="age" required>

    </div>

  </div>

<div class="form-row">

              <div class="form-group">

    <label for="inputAddress">Gender</label>

    <input type="text" class="form-control" id="gender" placeholder="Male/Female" name="gender" required>

  </div>

              <div class="form-group col-md-6">

      <label for="inputPassword4">ID</label>

      <input type="text" class="form-control" id="patient\_number" placeholder="A001" name="id">

    </div>

</div>

              <div class="form-group">

    <label for="phone">Phone Number</label>

    <input type="text" class="form-control" id="phone" placeholder="987654321" name="phone">

  </div>

                <div class="form-row">

    <div class="form-group col-md-6">

      <label for="inputEmail4">Email</label>

      <input type="email" name = email class="form-control" id="inputEmail4" placeholder="Email">

    </div>

  </div>

  <div class="form-row">

    <div class="form-group col-md-6">

      <label for="inputCity">Address</label>

      <input type="text" class="form-control" id="inputCity" name = "address">

    </div>

    <div class="form-group col-md-4">

      <label for="inputState">Test</label>

      <select id="inputState" class="form-control" name="test">

        <option selected>Choose...</option>

        <option>Diabeties</option>

        <option>Thyroid</option>

        <option>Both</option>

      </select>

    </div>

  </div>

  <div class="form-group">

  </div>

  <button type="submit" class="btn btn-primary">Registration</button>

            </form>

          {% endblock %}

        </main>

      </div>

    </div>

    <!-- Bootstrap core JavaScript

    ================================================== -->

    <!-- Placed at the end of the document so the pages load faster -->

    <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js" integrity="sha384-KJ3o2DKtIkvYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN" crossorigin="anonymous"></script>

    <script>window.jQuery || document.write('<script src="../../../../assets/js/vendor/jquery-slim.min.js"><\/script>')</script>

    <script src="../../../../assets/js/vendor/popper.min.js"></script>

    <script src="../../../../dist/js/bootstrap.min.js"></script>

    <!-- Icons -->

    <script src="https://unpkg.com/feather-icons/dist/feather.min.js"></script>

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      var myChart = new Chart(ctx, {

        type: 'line',

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          datasets: [{

            data: [15339, 21345, 18483, 24003, 23489, 24092, 12034],

            lineTension: 0,

            backgroundColor: 'transparent',

            borderColor: '#007bff',

            borderWidth: 4,

            pointBackgroundColor: '#007bff'

          }]

        },

        options: {

          scales: {

            yAxes: [{

              ticks: {

                beginAtZero: false

              }

            }]

          },

          legend: {

            display: false,

          }

        }

      });

    </script>

  </body>

</html>

{% extends "index.html" %}

{% load static %}

{% block body %}

 <center>

<form action="upload" method="post" enctype="multipart/form-data">{% csrf\_token %}

    <input type="file" name="file" id="fileToUpload" class="btn btn-primary">

    <input type="submit" value="Upload Image" name="submit" class="btn btn-primary"><br><br>

</form>

{% if image %}

<img src="{% static '' %}{{image}}" height="480" width="640">

<br><br><br><input value="{{res}}" class="btn btn-info">

<div class="card  shadow">

    {{remi}}

</div>

</center>

{% endif %}

{% endblock %}

from django.contrib import admin

from .models import Information

admin.site.register(Information)

# Register your models here.

from django.apps import AppConfig

class VisionConfig(AppConfig):

    name = 'vision'

from math import sqrt

from sklearn.cluster import KMeans

from sklearn.neighbors import NearestNeighbors

import numpy as np

from skimage import data, io, feature

from sklearn.utils import shuffle

from skimage.util import invert

from skimage.feature import blob\_dog, blob\_log, blob\_doh

from skimage.color import rgb2gray

import os

import matplotlib.pyplot as plt

import pandas as pd

import pickle

from sklearn.utils import shuffle

from joblib import dump, load

import os

path = os.getcwd()#+"/vision"

dia\_list = os.listdir(path+"/dia")[1:26]

nrm\_list = os.listdir(path+"/norm")  # [0:1]

def clu(image, n):

   n\_colors = n

   # Load the Summer Palace photo

   china = image

   # Convert to floats instead of the default 8 bits integer coding. Dividing by

   # 255 is important so that plt.imshow behaves works well on float data (need to

   # be in the range [0-1])

   china = np.array(china, dtype=np.float64) / 255

   # Load Image and transform to a 2D numpy array.

   w, h, d = tuple(china.shape)

   assert d == 3

   image\_array = np.reshape(china, (w \* h, d))

   image\_array\_sample = shuffle(image\_array, random\_state=0)[:1000]

   kmeans = KMeans(n\_clusters=n\_colors, random\_state=0).fit(image\_array\_sample)

   # labels = kmeans.predict(image\_array)

   # print(labels)

   return (kmeans.cluster\_centers\_)

   return recreate\_image(kmeans.cluster\_centers\_, labels, w, h)

def recreate\_image(codebook, labels, w, h):

   """Recreate the (compressed) image from the code book & labels"""

   d = codebook.shape[1]

   image = np.zeros((w, h, d))

   label\_idx = 0

   for i in range(w):

      for j in range(h):

         image[i][j] = codebook[labels[label\_idx]]

         label\_idx += 1

   return image

def classi(x, y):

   n\_neighbors = 15

   clf = NearestNeighbors(n\_neighbors)

   clf.fit(x, y)

   Z = clf.predict()

def process():

   v0, v1, v2, v3, v4, v5, v6, v7, v8 = [], [], [], [], [], [], [], [], []

   name = []

   df = pd.DataFrame(

      {"name": name, "v0": v0, "v1": v1, "v2": v2, "v3": v3, "v4": v4, "v5": v5, "v6": v6, "v7": v7, "v8": v8, })

   matrix = [[], []]

   for img in dia\_list:

      try:

         image = io.imread("dia/" + img)

         h, w = image.shape[:-1]

         image = image[int((h // 4) \* 3):, int(w // 2):int((w // 4) \* 3)]

         result = rgb2gray(clu(image, 9))

         # plt.imsave("eye\_dia/"+img,result)

         matrix[0].append(result.flatten())

         print(result.max() \* 255)

      except Exception as e:

         print(e)

   print("...........................................")

   for img in nrm\_list:

      try:

         image = io.imread("norm/" + img)

         h, w = image.shape[:-1]

         image = image[int((h // 4) \* 3):, int(w // 2):int((w // 4) \* 3)]

         result = rgb2gray(clu(image, 9))

         # plt.imsave("eye\_norm/"+img,result)

         matrix[1].append(result.flatten())

         print(result.max() \* 255)

      except:

         pass

   # file  = open("base.pickle","wb")

   # pickle.dump(matrix,file)

   dia\_mat = matrix[0]

   diaY = []

   nrmY = []

   for i in range(len(dia\_mat)):

      diaY.append(1)

   nrm\_mat = matrix[1]

   for i in range(len(nrm\_mat)):

      nrmY.append(0)

   '''mat\_diaY = np.array(diaY)

   mat\_nrmX = np.array(nrmY) '''

   lablesY = diaY + nrmY

   dataX = dia\_mat + nrm\_mat

   x, y = shuffle(dataX, lablesY, random\_state=0)

   model = NearestNeighbors(5)

   from sklearn.neighbors.nearest\_centroid import NearestCentroid

   clf = NearestCentroid()

   clf.fit(np.array(x), np.array(y))

   dump(clf, 'model.joblib')

   #clf2.predict()

   # NearestCentroid(metric='euclidean', shrink\_threshold=None)

   for n, k in enumerate(x):

      print(np.mean(lablesY[n] == clf.predict([k])))

def result(image):

   path = os.getcwd()+"\\vision\\"

   h, w = image.shape[:-1]

   image = image[int((h // 4) \* 3):, int(w // 2):int((w // 4) \* 3)]

   result1 = rgb2gray(clu(image, 9))

   # plt.imsave("eye\_dia/"+img,result)

   k = result1.flatten()

   clf = load(path+"model.joblib")

   return clf.predict([k])

if \_\_name\_\_ =="\_\_main\_\_":

   process()

from django.db import models

class Information(models.Model):

    username = models.CharField(max\_length=30)

    age = models.CharField(max\_length=30)

    email = models.CharField(max\_length=30)

    gender = models.CharField(max\_length=30)

    phone = models.CharField(max\_length=30)

    age = models.CharField(max\_length=30)

    address = models.CharField(max\_length=70)

    test = models.CharField(max\_length=30)

    pid = models.CharField(max\_length=30)

    result = models.CharField(max\_length=30,default = "")

    def \_\_str\_\_(self):

        return self.username

# Create your models here.l

from django.test import TestCase

# Create your tests here.

"""eyetest URL Configuration

The `urlpatterns` list routes URLs to views. For more information please see:

    https://docs.djangoproject.com/en/3.0/topics/http/urls/

Examples:

Function views

    1. Add an import:  from my\_app import views

    2. Add a URL to urlpatterns:  path('', views.home, name='home')

Class-based views

    1. Add an import:  from other\_app.views import Home

    2. Add a URL to urlpatterns:  path('', Home.as\_view(), name='home')

Including another URLconf

    1. Import the include() function: from django.urls import include, path

    2. Add a URL to urlpatterns:  path('blog/', include('blog.urls'))

"""

from django.contrib import admin

from django.urls import path

from . views import \*

urlpatterns = [

    path('',index,name="index" ),

    path('upload',upload,name="upload" ),

    path('disease',disease,name="entry" ),

]

from django.shortcuts import render,redirect

from django.http import HttpResponse

from skimage import  io

from . models import \*

from datetime import date

import os

import numpy as np

from tensorflow.keras.models import load\_model

from tensorflow.keras.preprocessing import image

import cv2

from django.core.files.storage import FileSystemStorage

model = load\_model('model.h5')

def preprocess\_image(image\_path):

    img = image.load\_img(image\_path, target\_size=(48, 48))

    img\_array = image.img\_to\_array(img)

    img\_array = np.expand\_dims(img\_array, axis=0)

    return img\_array

def predict(input\_data):

    predictions = model.predict(input\_data)

    return predictions

def index(request):

    return render(request,"index.html")

def disease(request):

    return render(request,"disease.html")

def entry(request):

    if request.method == "POST":

        username = request.POST["username"]

        age = request.POST["age"]

        email = request.POST["email"]

        address = request.POST["address"]

        test = request.POST["test"]

        gender = request.POST["gender"]

        pid = request.POST["id"]

        phone = request.POST["phone"]

        info = Information(username = username,age = age,email=email,address=address,pid=pid,gender=gender,phone=phone,test = test)

        info.save()

        return redirect('upload')

    db = Information.objects.all()

    print(db)

    return render(request,"new\_entry.html")

def upload(request):

    today = date.today()

    date\_str = today.strftime("%d-%m-%Y")

    db = Information.objects.all()

    if request.method=="POST":

        image = request.FILES["file"]

        image\_name = request.FILES["file"].name

        fs = FileSystemStorage(os.getcwd() + "/vision/static")

        fs.delete("temp.jpg")

        fs.delete("temp.jpg")

        print(fs.location)

        fs.save("temp.jpg", image)

        img = cv2.imread(os.getcwd() + "/vision/static/temp.jpg")

        print(fs.location)

        print(fs.location+'/'+image\_name[:-4]+"\_"+date\_str+image\_name[-4:],"file name")

        cv2.imwrite(fs.location+'/'+image\_name[:-4]+"\_"+date\_str+image\_name[-4:],img)

        #fs.save(image\_name, image)

        thi = "-"

        dia = "-"

        print(fs.location +"/"+"temp.jpg")

        input\_data = preprocess\_image(str(fs.location)+"/"+"temp.jpg")

        predictions = predict(input\_data)

        label\_index = np.argmax(predictions)

        rem = [

            "for first one", "for second one"

        ]

        lables = ['Apple\_\_\_Apple\_scab', 'Apple\_\_\_Black\_rot', 'Apple\_\_\_Cedar\_apple\_rust',

                    'Apple\_\_\_healthy', 'Potato\_\_\_Early\_blight', 'Potato\_\_\_Late\_blight',

                    'Potato\_\_\_healthy', 'Peach\_\_\_Bacterial\_spot', 'Peach\_\_\_healthy',

                    'Strawberry\_\_\_Leaf\_scorch', 'Strawberry\_\_\_healthy']

        return render(request, "upload.html", {"image":"temp.jpg","res":lables[label\_index],"remi":rem[label\_index]})

    return render(request,"upload.html",{'data':db})

# Create your views here.

from math import sqrt

from sklearn.cluster import KMeans

from sklearn.neighbors import NearestNeighbors

import numpy as np

from skimage import data, io, feature

from sklearn.utils import shuffle

from skimage.util import invert

from skimage.feature import blob\_dog, blob\_log, blob\_doh

from skimage.color import rgb2gray

import os

import matplotlib.pyplot as plt

import pandas as pd

import pickle

from sklearn.utils import shuffle

from joblib import dump, load

import os

def clu(image,n):

   n\_colors = n

   # Load the Summer Palace photo

   china = image

   # Convert to floats instead of the default 8 bits integer coding. Dividing by

   # 255 is important so that plt.imshow behaves works well on float data (need to

   # be in the range [0-1])

   china = np.array(china, dtype=np.float64) / 255

   # Load Image and transform to a 2D numpy array.

   w, h, d = tuple(china.shape)

   assert d == 3

   image\_array = np.reshape(china, (w \* h, d))

   image\_array\_sample = shuffle(image\_array, random\_state=0)[:1000]

   kmeans = KMeans(n\_clusters=n\_colors, random\_state=0).fit(image\_array\_sample)

   # labels = kmeans.predict(image\_array)

   # print(labels)

   return (kmeans.cluster\_centers\_)

   return recreate\_image(kmeans.cluster\_centers\_, labels, w, h)

def recreate\_image(codebook, labels, w, h):

   """Recreate the (compressed) image from the code book & labels"""

   d = codebook.shape[1]

   image = np.zeros((w, h, d))

   label\_idx = 0

   for i in range(w):

      for j in range(h):

         image[i][j] = codebook[labels[label\_idx]]

         label\_idx += 1

   return image

def classi(x, y):

   n\_neighbors = 15

   clf = NearestNeighbors(n\_neighbors)

   clf.fit(x, y)

   Z = clf.predict()

def process():

   v0, v1, v2, v3, v4, v5, v6, v7, v8 = [], [], [], [], [], [], [], [], []

   name = []

   df = pd.DataFrame(

      {"name": name, "v0": v0, "v1": v1, "v2": v2, "v3": v3, "v4": v4, "v5": v5, "v6": v6, "v7": v7, "v8": v8, })

   matrix = [[], []]

   for img in dia\_list:

      try:

         image = io.imread("dia/" + img)

         h, w = image.shape[:-1]

         image = image[int((h // 4) \* 3):, int(w // 2):int((w // 4) \* 3)]

         result = rgb2gray(clu(image, 9))

         # plt.imsave("eye\_dia/"+img,result)

         matrix[0].append(result.flatten())

         print(result.max() \* 255)

      except Exception as e:

         print(e)

   print("...........................................")

   for img in nrm\_list:

      try:

         image = io.imread("norm/" + img)

         h, w = image.shape[:-1]

         image = image[int((h // 4) \* 3):, int(w // 2):int((w // 4) \* 3)]

         result = rgb2gray(clu(image, 9))

         # plt.imsave("eye\_norm/"+img,result)

         matrix[1].append(result.flatten())

         print(result.max() \* 255)

      except:

         pass

   # file  = open("base.pickle","wb")

   # pickle.dump(matrix,file)

   dia\_mat = matrix[0]

   diaY = []

   nrmY = []

   for i in range(len(dia\_mat)):

      diaY.append(1)

   nrm\_mat = matrix[1]

   for i in range(len(nrm\_mat)):

      nrmY.append(0)

   '''mat\_diaY = np.array(diaY)

   mat\_nrmX = np.array(nrmY) '''

   lablesY = diaY + nrmY

   dataX = dia\_mat + nrm\_mat

   x, y = shuffle(dataX, lablesY, random\_state=0)

   model = NearestNeighbors(5)

   from sklearn.neighbors.nearest\_centroid import NearestCentroid

   clf = NearestCentroid()

   clf.fit(np.array(x), np.array(y))

   dump(clf, 'model.joblib')

   #clf2.predict()

   # NearestCentroid(metric='euclidean', shrink\_threshold=None)

   for n, k in enumerate(x):

      print(np.mean(lablesY[n] == clf.predict([k])))

def result(image):

   path = os.getcwd()+"/vision/"

   h, w = image.shape[:-1]

   image = image[int((h // 4) \* 3):, int(w // 2):int((w // 4) \* 3)]

   result1 = rgb2gray(clu(image, 9))

   # plt.imsave("eye\_dia/"+img,result)

   k = result1.flatten()

   clf = load(path+"model.joblib")

   return clf.predict([k])

def t\_result(image):

   path = os.getcwd()+"/vision/"

   h, w = image.shape[:-1]

   image = image[int((h // 4) \* 3):, int(w // 2):int((w // 4) \* 3)]

   result1 = rgb2gray(clu(image, 9))

   # plt.imsave("eye\_dia/"+img,result)

   k = result1.flatten()

   clf = load(path+"model.joblib")

   return clf.predict([k])

if \_\_name\_\_ =="\_\_main\_\_":

   process()

<?xml version="1.0" encoding="UTF-8"?>

<module type="PYTHON\_MODULE" version="4">

  <component name="NewModuleRootManager">

    <content url="file://$MODULE\_DIR$" />

    <orderEntry type="jdk" jdkName="Python 3.6" jdkType="Python SDK" />

    <orderEntry type="sourceFolder" forTests="false" />

  </component>

</module>

<?xml version="1.0" encoding="UTF-8"?>

<project version="4">

  <component name="ProjectRootManager" version="2" project-jdk-name="Python 3.6" project-jdk-type="Python SDK" />

  <component name="PyCharmProfessionalAdvertiser">

    <option name="shown" value="true" />

  </component>

</project>

<?xml version="1.0" encoding="UTF-8"?>

<project version="4">

  <component name="ProjectModuleManager">

    <modules>

      <module fileurl="file://$PROJECT\_DIR$/.idea/eyetest.iml" filepath="$PROJECT\_DIR$/.idea/eyetest.iml" />

    </modules>

  </component>

</project>

<?xml version="1.0" encoding="UTF-8"?>

<project version="4">

  <component name="ChangeListManager">

    <list default="true" id="b76e06e4-00d8-4e9c-a409-898b36c6ae10" name="Default Changelist" comment="" />

    <option name="EXCLUDED\_CONVERTED\_TO\_IGNORED" value="true" />

    <option name="TRACKING\_ENABLED" value="true" />

    <option name="SHOW\_DIALOG" value="false" />

    <option name="HIGHLIGHT\_CONFLICTS" value="true" />

    <option name="HIGHLIGHT\_NON\_ACTIVE\_CHANGELIST" value="false" />

    <option name="LAST\_RESOLUTION" value="IGNORE" />

  </component>

  <component name="FileEditorManager">

    <leaf SIDE\_TABS\_SIZE\_LIMIT\_KEY="300">

      <file leaf-file-name="views.py" pinned="false" current-in-tab="false">

        <entry file="file://$PROJECT\_DIR$/vision/views.py">

          <provider selected="true" editor-type-id="text-editor">

            <state relative-caret-position="158">

              <caret line="69" column="0" lean-forward="false" selection-start-line="69" selection-start-column="0" selection-end-line="69" selection-end-column="0" />

              <folding>

                <element signature="e#0#44#0" expanded="true" />

              </folding>

            </state>

          </provider>

        </entry>

      </file>

      <file leaf-file-name="models.py" pinned="false" current-in-tab="false">

        <entry file="file://$PROJECT\_DIR$/vision/models.py">

          <provider selected="true" editor-type-id="text-editor">

            <state relative-caret-position="0">

              <caret line="0" column="0" lean-forward="false" selection-start-line="0" selection-start-column="0" selection-end-line="0" selection-end-column="0" />

              <folding />

            </state>

          </provider>

        </entry>

      </file>

      <file leaf-file-name="vision.py" pinned="false" current-in-tab="true">

        <entry file="file://$PROJECT\_DIR$/vision/vision.py">

          <provider selected="true" editor-type-id="text-editor">

            <state relative-caret-position="238">

              <caret line="155" column="25" lean-forward="false" selection-start-line="155" selection-start-column="25" selection-end-line="155" selection-end-column="25" />

              <folding>

                <element signature="e#0#21#0" expanded="true" />

              </folding>

            </state>

          </provider>

        </entry>

      </file>

      <file leaf-file-name="urls.py" pinned="false" current-in-tab="false">

        <entry file="file://$PROJECT\_DIR$/vision/urls.py">

          <provider selected="true" editor-type-id="text-editor">

            <state relative-caret-position="380">

              <caret line="21" column="16" lean-forward="false" selection-start-line="21" selection-start-column="10" selection-end-line="21" selection-end-column="16" />

              <folding />

            </state>

          </provider>

        </entry>

      </file>

      <file leaf-file-name="upload.html" pinned="false" current-in-tab="false">

        <entry file="file://$PROJECT\_DIR$/vision/templates/upload.html">

          <provider selected="true" editor-type-id="text-editor">

            <state relative-caret-position="204">

              <caret line="27" column="0" lean-forward="false" selection-start-line="27" selection-start-column="0" selection-end-line="27" selection-end-column="0" />

              <folding />

            </state>

          </provider>

        </entry>

      </file>

      <file leaf-file-name="new\_entry.html" pinned="false" current-in-tab="false">

        <entry file="file://$PROJECT\_DIR$/vision/templates/new\_entry.html">

          <provider selected="true" editor-type-id="text-editor">

            <state relative-caret-position="167">

              <caret line="105" column="8" lean-forward="false" selection-start-line="105" selection-start-column="8" selection-end-line="106" selection-end-column="32" />

              <folding />

            </state>

          </provider>

        </entry>

      </file>

      <file leaf-file-name="index.html" pinned="false" current-in-tab="false">

        <entry file="file://$PROJECT\_DIR$/vision/templates/index.html">

          <provider selected="true" editor-type-id="text-editor">

            <state relative-caret-position="880">

              <caret line="44" column="28" lean-forward="false" selection-start-line="44" selection-start-column="28" selection-end-line="44" selection-end-column="28" />

              <folding />

            </state>

          </provider>

        </entry>

      </file>

    </leaf>

  </component>

  <component name="IdeDocumentHistory">

    <option name="CHANGED\_PATHS">

      <list>

        <option value="$PROJECT\_DIR$/vision/templates/index.html" />

        <option value="$PROJECT\_DIR$/vision/templates/new\_entry.html" />

        <option value="$PROJECT\_DIR$/vision/templates/upload.html" />

        <option value="$PROJECT\_DIR$/vision/views.py" />

        <option value="$PROJECT\_DIR$/vision/vision.py" />

      </list>

    </option>

  </component>

  <component name="ProjectFrameBounds" extendedState="6">

    <option name="x" value="1" />

    <option name="y" value="111" />

    <option name="width" value="1346" />

    <option name="height" value="688" />

  </component>

  <component name="ProjectId" id="1WORkxB3zr8HMHdalrNycIe9JDv" />

  <component name="ProjectView">

    <navigator currentView="ProjectPane" proportions="" version="1">

      <flattenPackages />

      <showMembers />

      <showModules />

      <showLibraryContents />

      <hideEmptyPackages />

      <abbreviatePackageNames />

      <autoscrollToSource />

      <autoscrollFromSource />

      <sortByType />

      <manualOrder />

      <foldersAlwaysOnTop value="true" />

    </navigator>

    <panes>

      <pane id="Scratches" />

      <pane id="Scope" />

      <pane id="ProjectPane">

        <subPane>

          <expand>

            <path>

              <item name="eyetest" type="b2602c69:ProjectViewProjectNode" />

              <item name="eyetest" type="462c0819:PsiDirectoryNode" />

            </path>

            <path>

              <item name="eyetest" type="b2602c69:ProjectViewProjectNode" />

              <item name="eyetest" type="462c0819:PsiDirectoryNode" />

              <item name="vision" type="462c0819:PsiDirectoryNode" />

            </path>

            <path>

              <item name="eyetest" type="b2602c69:ProjectViewProjectNode" />

              <item name="eyetest" type="462c0819:PsiDirectoryNode" />

              <item name="vision" type="462c0819:PsiDirectoryNode" />

              <item name="templates" type="462c0819:PsiDirectoryNode" />

            </path>

          </expand>

          <select />

        </subPane>

      </pane>

    </panes>

  </component>

  <component name="ProjectViewState">

    <option name="hideEmptyMiddlePackages" value="true" />

    <option name="showExcludedFiles" value="true" />

    <option name="showLibraryContents" value="true" />

  </component>

  <component name="PropertiesComponent">

    <property name="RunOnceActivity.ShowReadmeOnStart" value="true" />

    <property name="last\_opened\_file\_path" value="$PROJECT\_DIR$" />

    <property name="settings.editor.selected.configurable" value="com.jetbrains.python.configuration.PyActiveSdkModuleConfigurable" />

  </component>

  <component name="RecentsManager">

    <key name="CopyFile.RECENT\_KEYS">

      <recent name="$PROJECT\_DIR$/vision/templates" />

      <recent name="D:\eyetest\vision" />

    </key>

    <key name="MoveFile.RECENT\_KEYS">

      <recent name="$PROJECT\_DIR$/vision" />

    </key>

  </component>

  <component name="RunDashboard">

    <option name="ruleStates">

      <list>

        <RuleState>

          <option name="name" value="ConfigurationTypeDashboardGroupingRule" />

        </RuleState>

        <RuleState>

          <option name="name" value="StatusDashboardGroupingRule" />

        </RuleState>

      </list>

    </option>

  </component>

  <component name="RunManager">

    <configuration name="vision" type="PythonConfigurationType" factoryName="Python" temporary="true">

      <option name="INTERPRETER\_OPTIONS" value="" />

      <option name="PARENT\_ENVS" value="true" />

      <envs>

        <env name="PYTHONUNBUFFERED" value="1" />

      </envs>

      <option name="SDK\_HOME" value="" />

      <option name="WORKING\_DIRECTORY" value="$PROJECT\_DIR$/vision" />

      <option name="IS\_MODULE\_SDK" value="true" />

      <option name="ADD\_CONTENT\_ROOTS" value="true" />

      <option name="ADD\_SOURCE\_ROOTS" value="true" />

      <module name="eyetest" />

      <option name="SCRIPT\_NAME" value="$PROJECT\_DIR$/vision/vision.py" />

      <option name="PARAMETERS" value="" />

      <option name="SHOW\_COMMAND\_LINE" value="false" />

      <option name="EMULATE\_TERMINAL" value="false" />

      <option name="MODULE\_MODE" value="false" />

    </configuration>

    <recent\_temporary>

      <list size="1">

        <item index="0" class="java.lang.String" itemvalue="Python.vision" />

      </list>

    </recent\_temporary>

  </component>

  <component name="ServiceViewManager">

    <option name="viewStates">

      <list>

        <serviceView>

          <treeState>

            <expand />

            <select />

          </treeState>

        </serviceView>

      </list>

    </option>

  </component>

  <component name="ShelveChangesManager" show\_recycled="false">

    <option name="remove\_strategy" value="false" />

  </component>

  <component name="SvnConfiguration">

    <configuration />

  </component>

  <component name="TaskManager">

    <task active="true" id="Default" summary="Default task">

      <changelist id="b76e06e4-00d8-4e9c-a409-898b36c6ae10" name="Default Changelist" comment="" />

      <created>1578994281992</created>

      <option name="number" value="Default" />

      <option name="presentableId" value="Default" />

      <updated>1578994281992</updated>

    </task>

    <servers />

  </component>

  <component name="ToolWindowManager">

    <frame x="-8" y="-8" width="1382" height="744" extended-state="6" />

    <layout>

      <window\_info id="Project" active="false" anchor="left" auto\_hide="false" internal\_type="DOCKED" type="DOCKED" visible="false" show\_stripe\_button="true" weight="0.24255952" sideWeight="0.5" order="0" side\_tool="false" content\_ui="combo" />

      <window\_info id="TODO" active="false" anchor="bottom" auto\_hide="false" internal\_type="DOCKED" type="DOCKED" visible="false" show\_stripe\_button="true" weight="0.33" sideWeight="0.5" order="6" side\_tool="false" content\_ui="tabs" />

      <window\_info id="Event Log" active="false" anchor="bottom" auto\_hide="false" internal\_type="DOCKED" type="DOCKED" visible="false" show\_stripe\_button="true" weight="0.33" sideWeight="0.5" order="7" side\_tool="true" content\_ui="tabs" />

      <window\_info id="Run" active="false" anchor="bottom" auto\_hide="false" internal\_type="DOCKED" type="DOCKED" visible="false" show\_stripe\_button="true" weight="0.33" sideWeight="0.5" order="2" side\_tool="false" content\_ui="tabs" />

      <window\_info id="Version Control" active="false" anchor="bottom" auto\_hide="false" internal\_type="DOCKED" type="DOCKED" visible="false" show\_stripe\_button="false" weight="0.33" sideWeight="0.5" order="10" side\_tool="false" content\_ui="tabs" />

      <window\_info id="Python Console" active="false" anchor="bottom" auto\_hide="false" internal\_type="DOCKED" type="DOCKED" visible="false" show\_stripe\_button="true" weight="0.33" sideWeight="0.5" order="8" side\_tool="false" content\_ui="tabs" />

      <window\_info id="Structure" active="false" anchor="left" auto\_hide="false" internal\_type="DOCKED" type="DOCKED" visible="false" show\_stripe\_button="true" weight="0.25" sideWeight="0.5" order="1" side\_tool="false" content\_ui="tabs" />

      <window\_info id="Terminal" active="false" anchor="bottom" auto\_hide="false" internal\_type="DOCKED" type="DOCKED" visible="true" show\_stripe\_button="true" weight="0.36437908" sideWeight="0.5" order="9" side\_tool="false" content\_ui="tabs" />

      <window\_info id="Debug" active="false" anchor="bottom" auto\_hide="false" internal\_type="DOCKED" type="DOCKED" visible="false" show\_stripe\_button="true" weight="0.4" sideWeight="0.5" order="3" side\_tool="false" content\_ui="tabs" />

      <window\_info id="Favorites" active="false" anchor="left" auto\_hide="false" internal\_type="DOCKED" type="DOCKED" visible="false" show\_stripe\_button="true" weight="0.33" sideWeight="0.5" order="2" side\_tool="true" content\_ui="tabs" />

      <window\_info id="Cvs" active="false" anchor="bottom" auto\_hide="false" internal\_type="DOCKED" type="DOCKED" visible="false" show\_stripe\_button="true" weight="0.25" sideWeight="0.5" order="4" side\_tool="false" content\_ui="tabs" />

      <window\_info id="Message" active="false" anchor="bottom" auto\_hide="false" internal\_type="DOCKED" type="DOCKED" visible="false" show\_stripe\_button="true" weight="0.33" sideWeight="0.5" order="0" side\_tool="false" content\_ui="tabs" />

      <window\_info id="Commander" active="false" anchor="right" auto\_hide="false" internal\_type="DOCKED" type="DOCKED" visible="false" show\_stripe\_button="true" weight="0.4" sideWeight="0.5" order="0" side\_tool="false" content\_ui="tabs" />

      <window\_info id="Inspection" active="false" anchor="bottom" auto\_hide="false" internal\_type="DOCKED" type="DOCKED" visible="false" show\_stripe\_button="true" weight="0.4" sideWeight="0.5" order="5" side\_tool="false" content\_ui="tabs" />

      <window\_info id="Hierarchy" active="false" anchor="right" auto\_hide="false" internal\_type="DOCKED" type="DOCKED" visible="false" show\_stripe\_button="true" weight="0.25" sideWeight="0.5" order="2" side\_tool="false" content\_ui="combo" />

      <window\_info id="Find" active="false" anchor="bottom" auto\_hide="false" internal\_type="DOCKED" type="DOCKED" visible="false" show\_stripe\_button="true" weight="0.33" sideWeight="0.5" order="1" side\_tool="false" content\_ui="tabs" />

      <window\_info id="Ant Build" active="false" anchor="right" auto\_hide="false" internal\_type="DOCKED" type="DOCKED" visible="false" show\_stripe\_button="true" weight="0.25" sideWeight="0.5" order="1" side\_tool="false" content\_ui="tabs" />

      <window\_info id="Data View" active="false" anchor="right" auto\_hide="false" internal\_type="DOCKED" type="DOCKED" visible="false" show\_stripe\_button="true" weight="0.33" sideWeight="0.5" order="3" side\_tool="false" content\_ui="tabs" />

    </layout>

    <layout-to-restore>

      <window\_info id="TODO" active="false" anchor="bottom" auto\_hide="false" internal\_type="DOCKED" type="DOCKED" visible="false" show\_stripe\_button="true" weight="0.33" sideWeight="0.5" order="6" side\_tool="false" content\_ui="tabs" />

      <window\_info id="Cvs" active="false" anchor="bottom" auto\_hide="false" internal\_type="DOCKED" type="DOCKED" visible="false" show\_stripe\_button="true" weight="0.25" sideWeight="0.5" order="4" side\_tool="false" content\_ui="tabs" />

      <window\_info id="Message" active="false" anchor="bottom" auto\_hide="false" internal\_type="DOCKED" type="DOCKED" visible="false" show\_stripe\_button="true" weight="0.33" sideWeight="0.5" order="0" side\_tool="false" content\_ui="tabs" />

      <window\_info id="Commander" active="false" anchor="right" auto\_hide="false" internal\_type="DOCKED" type="DOCKED" visible="false" show\_stripe\_button="true" weight="0.4" sideWeight="0.5" order="0" side\_tool="false" content\_ui="tabs" />

      <window\_info id="Event Log" active="false" anchor="bottom" auto\_hide="false" internal\_type="DOCKED" type="DOCKED" visible="false" show\_stripe\_button="true" weight="0.33" sideWeight="0.5" order="7" side\_tool="true" content\_ui="tabs" />

      <window\_info id="Inspection" active="false" anchor="bottom" auto\_hide="false" internal\_type="DOCKED" type="DOCKED" visible="false" show\_stripe\_button="true" weight="0.4" sideWeight="0.5" order="5" side\_tool="false" content\_ui="tabs" />

      <window\_info id="Run" active="false" anchor="bottom" auto\_hide="false" internal\_type="DOCKED" type="DOCKED" visible="false" show\_stripe\_button="true" weight="0.33" sideWeight="0.5" order="2" side\_tool="false" content\_ui="tabs" />

      <window\_info id="Version Control" active="false" anchor="bottom" auto\_hide="false" internal\_type="DOCKED" type="DOCKED" visible="false" show\_stripe\_button="false" weight="0.33" sideWeight="0.5" order="10" side\_tool="false" content\_ui="tabs" />

      <window\_info id="Python Console" active="false" anchor="bottom" auto\_hide="false" internal\_type="DOCKED" type="DOCKED" visible="false" show\_stripe\_button="true" weight="0.33" sideWeight="0.5" order="8" side\_tool="false" content\_ui="tabs" />

      <window\_info id="Terminal" active="false" anchor="bottom" auto\_hide="false" internal\_type="DOCKED" type="DOCKED" visible="true" show\_stripe\_button="true" weight="0.36437908" sideWeight="0.5" order="9" side\_tool="false" content\_ui="tabs" />

      <window\_info id="Project" active="false" anchor="left" auto\_hide="false" internal\_type="DOCKED" type="DOCKED" visible="false" show\_stripe\_button="true" weight="0.24255952" sideWeight="0.5" order="0" side\_tool="false" content\_ui="combo" />

      <window\_info id="Hierarchy" active="false" anchor="right" auto\_hide="false" internal\_type="DOCKED" type="DOCKED" visible="false" show\_stripe\_button="true" weight="0.25" sideWeight="0.5" order="2" side\_tool="false" content\_ui="combo" />

      <window\_info id="Find" active="false" anchor="bottom" auto\_hide="false" internal\_type="DOCKED" type="DOCKED" visible="false" show\_stripe\_button="true" weight="0.33" sideWeight="0.5" order="1" side\_tool="false" content\_ui="tabs" />

      <window\_info id="Structure" active="false" anchor="left" auto\_hide="false" internal\_type="DOCKED" type="DOCKED" visible="false" show\_stripe\_button="true" weight="0.25" sideWeight="0.5" order="1" side\_tool="false" content\_ui="tabs" />

      <window\_info id="Ant Build" active="false" anchor="right" auto\_hide="false" internal\_type="DOCKED" type="DOCKED" visible="false" show\_stripe\_button="true" weight="0.25" sideWeight="0.5" order="1" side\_tool="false" content\_ui="tabs" />

      <window\_info id="Debug" active="false" anchor="bottom" auto\_hide="false" internal\_type="DOCKED" type="DOCKED" visible="false" show\_stripe\_button="true" weight="0.4" sideWeight="0.5" order="3" side\_tool="false" content\_ui="tabs" />

      <window\_info id="Favorites" active="false" anchor="left" auto\_hide="false" internal\_type="DOCKED" type="DOCKED" visible="false" show\_stripe\_button="true" weight="0.33" sideWeight="0.5" order="2" side\_tool="true" content\_ui="tabs" />

      <window\_info id="Data View" active="false" anchor="right" auto\_hide="false" internal\_type="DOCKED" type="DOCKED" visible="false" show\_stripe\_button="true" weight="0.33" sideWeight="0.5" order="3" side\_tool="false" content\_ui="tabs" />

    </layout-to-restore>

  </component>

  <component name="VcsContentAnnotationSettings">

    <option name="myLimit" value="2678400000" />

  </component>

  <component name="WindowStateProjectService">

    <state x="409" y="47" key="#vision" timestamp="1579024412380">

      <screen x="0" y="0" width="1366" height="728" />

    </state>

    <state x="409" y="47" key="#vision/0.0.1366.728@0.0.1366.728" timestamp="1579024412380" />

    <state width="1345" height="229" key="GridCell.Tab.0.bottom" timestamp="1579029198040">

      <screen x="0" y="0" width="1366" height="728" />

    </state>

    <state width="1345" height="229" key="GridCell.Tab.0.bottom/0.0.1366.728@0.0.1366.728" timestamp="1579029198040" />

    <state width="1345" height="229" key="GridCell.Tab.0.center" timestamp="1579029198040">

      <screen x="0" y="0" width="1366" height="728" />

    </state>

    <state width="1345" height="229" key="GridCell.Tab.0.center/0.0.1366.728@0.0.1366.728" timestamp="1579029198040" />

    <state width="1345" height="229" key="GridCell.Tab.0.left" timestamp="1579029198040">

      <screen x="0" y="0" width="1366" height="728" />

    </state>

    <state width="1345" height="229" key="GridCell.Tab.0.left/0.0.1366.728@0.0.1366.728" timestamp="1579029198040" />

    <state width="1345" height="229" key="GridCell.Tab.0.right" timestamp="1579029198040">

      <screen x="0" y="0" width="1366" height="728" />

    </state>

    <state width="1345" height="229" key="GridCell.Tab.0.right/0.0.1366.728@0.0.1366.728" timestamp="1579029198040" />

    <state x="244" y="36" key="SettingsEditor" timestamp="1579094270609">

      <screen x="67" y="27" width="1299" height="741" />

    </state>

    <state x="186" y="9" key="SettingsEditor/0.0.1366.728@0.0.1366.728" timestamp="1579024418548" />

    <state x="244" y="36" key="SettingsEditor/67.27.1299.741@67.27.1299.741" timestamp="1579094270609" />

  </component>

  <component name="XDebuggerManager">

    <breakpoint-manager />

    <watches-manager />

  </component>

  <component name="editorHistoryManager">

    <entry file="file://$PROJECT\_DIR$/vision/views.py">

      <provider selected="true" editor-type-id="text-editor">

        <state relative-caret-position="480">

          <caret line="32" column="33" lean-forward="false" selection-start-line="32" selection-start-column="33" selection-end-line="32" selection-end-column="33" />

          <folding>

            <element signature="e#0#44#0" expanded="true" />

          </folding>

        </state>

      </provider>

    </entry>

    <entry file="file://$PROJECT\_DIR$/vision/templates/upload.html">

      <provider selected="true" editor-type-id="text-editor">

        <state relative-caret-position="240">

          <caret line="12" column="43" lean-forward="false" selection-start-line="12" selection-start-column="43" selection-end-line="12" selection-end-column="43" />

          <folding />

        </state>

      </provider>

    </entry>

    <entry file="file://$PROJECT\_DIR$/vision/urls.py">

      <provider selected="true" editor-type-id="text-editor">

        <state relative-caret-position="380">

          <caret line="21" column="16" lean-forward="false" selection-start-line="21" selection-start-column="10" selection-end-line="21" selection-end-column="16" />

          <folding />

        </state>

      </provider>

    </entry>

    <entry file="file://$PROJECT\_DIR$/vision/templates/index.html">

      <provider selected="true" editor-type-id="text-editor">

        <state relative-caret-position="880">

          <caret line="44" column="28" lean-forward="true" selection-start-line="44" selection-start-column="28" selection-end-line="44" selection-end-column="28" />

          <folding />

        </state>

      </provider>

    </entry>

    <entry file="file://$PROJECT\_DIR$/vision/templates/new\_entry.html">

      <provider selected="true" editor-type-id="text-editor">

        <state relative-caret-position="2120">

          <caret line="106" column="17" lean-forward="false" selection-start-line="106" selection-start-column="17" selection-end-line="106" selection-end-column="17" />

          <folding />

        </state>

      </provider>

    </entry>

    <entry file="file://$PROJECT\_DIR$/vision/urls.py">

      <provider selected="true" editor-type-id="text-editor">

        <state relative-caret-position="380">

          <caret line="21" column="16" lean-forward="false" selection-start-line="21" selection-start-column="10" selection-end-line="21" selection-end-column="16" />

          <folding />

        </state>

      </provider>

    </entry>

    <entry file="file://$PROJECT\_DIR$/vision/templates/index.html">

      <provider selected="true" editor-type-id="text-editor">

        <state relative-caret-position="880">

          <caret line="44" column="28" lean-forward="false" selection-start-line="44" selection-start-column="28" selection-end-line="44" selection-end-column="28" />

          <folding />

        </state>

      </provider>

    </entry>

    <entry file="file://$PROJECT\_DIR$/vision/templates/upload.html">

      <provider selected="true" editor-type-id="text-editor">

        <state relative-caret-position="204">

          <caret line="27" column="0" lean-forward="false" selection-start-line="27" selection-start-column="0" selection-end-line="27" selection-end-column="0" />

          <folding />

        </state>

      </provider>

    </entry>

    <entry file="file://$PROJECT\_DIR$/vision/templates/new\_entry.html">

      <provider selected="true" editor-type-id="text-editor">

        <state relative-caret-position="167">

          <caret line="105" column="8" lean-forward="false" selection-start-line="105" selection-start-column="8" selection-end-line="106" selection-end-column="32" />

          <folding />

        </state>

      </provider>

    </entry>

    <entry file="file://$PROJECT\_DIR$/vision/models.py">

      <provider selected="true" editor-type-id="text-editor">

        <state relative-caret-position="0">

          <caret line="0" column="0" lean-forward="false" selection-start-line="0" selection-start-column="0" selection-end-line="0" selection-end-column="0" />

          <folding />

        </state>

      </provider>

    </entry>

    <entry file="file://$PROJECT\_DIR$/vision/views.py">

      <provider selected="true" editor-type-id="text-editor">

        <state relative-caret-position="158">

          <caret line="69" column="0" lean-forward="false" selection-start-line="69" selection-start-column="0" selection-end-line="69" selection-end-column="0" />

          <folding>

            <element signature="e#0#44#0" expanded="true" />

          </folding>

        </state>

      </provider>

    </entry>

    <entry file="file://$PROJECT\_DIR$/vision/vision.py">

      <provider selected="true" editor-type-id="text-editor">

        <state relative-caret-position="238">

          <caret line="155" column="25" lean-forward="false" selection-start-line="155" selection-start-column="25" selection-end-line="155" selection-end-column="25" />

          <folding>

            <element signature="e#0#21#0" expanded="true" />

          </folding>

        </state>

      </provider>

    </entry>

  </component>

</project>

"""

ASGI config for eyetest project.

It exposes the ASGI callable as a module-level variable named ``application``.

For more information on this file, see

https://docs.djangoproject.com/en/3.0/howto/deployment/asgi/

"""

import os

from django.core.asgi import get\_asgi\_application

os.environ.setdefault('DJANGO\_SETTINGS\_MODULE', 'eyetest.settings')

application = get\_asgi\_application()

"""

Django settings for eyetest project.

Generated by 'django-admin startproject' using Django 3.0.2.

For more information on this file, see

https://docs.djangoproject.com/en/3.0/topics/settings/

For the full list of settings and their values, see

https://docs.djangoproject.com/en/3.0/ref/settings/

"""

import os

# Build paths inside the project like this: os.path.join(BASE\_DIR, ...)

BASE\_DIR = os.path.dirname(os.path.dirname(os.path.abspath(\_\_file\_\_)))

# Quick-start development settings - unsuitable for production

# See https://docs.djangoproject.com/en/3.0/howto/deployment/checklist/

# SECURITY WARNING: keep the secret key used in production secret!

SECRET\_KEY = '3irezr\*s!rqmbc!ust$u7c%wzn05l+gn$xhn&dmv5pvz\*z8u)c'

# SECURITY WARNING: don't run with debug turned on in production!

DEBUG = True

ALLOWED\_HOSTS = []

# Application definition

INSTALLED\_APPS = [

    'vision',

    'django.contrib.admin',

    'django.contrib.auth',

    'django.contrib.contenttypes',

    'django.contrib.sessions',

    'django.contrib.messages',

    'django.contrib.staticfiles',

]

MIDDLEWARE = [

    'django.middleware.security.SecurityMiddleware',

    'django.contrib.sessions.middleware.SessionMiddleware',

    'django.middleware.common.CommonMiddleware',

    'django.middleware.csrf.CsrfViewMiddleware',

    'django.contrib.auth.middleware.AuthenticationMiddleware',

    'django.contrib.messages.middleware.MessageMiddleware',

    'django.middleware.clickjacking.XFrameOptionsMiddleware',

]

ROOT\_URLCONF = 'eyetest.urls'

TEMPLATES = [

    {

        'BACKEND': 'django.template.backends.django.DjangoTemplates',

        'DIRS': [],

        'APP\_DIRS': True,

        'OPTIONS': {

            'context\_processors': [

                'django.template.context\_processors.debug',

                'django.template.context\_processors.request',

                'django.contrib.auth.context\_processors.auth',

                'django.contrib.messages.context\_processors.messages',

            ],

        },

    },

]

WSGI\_APPLICATION = 'eyetest.wsgi.application'

# Database

# https://docs.djangoproject.com/en/3.0/ref/settings/#databases

DATABASES = {

    'default': {

        'ENGINE': 'django.db.backends.sqlite3',

        'NAME': os.path.join(BASE\_DIR, 'db.sqlite3'),

    }

}

# Password validation

# https://docs.djangoproject.com/en/3.0/ref/settings/#auth-password-validators

AUTH\_PASSWORD\_VALIDATORS = [

    {

        'NAME': 'django.contrib.auth.password\_validation.UserAttributeSimilarityValidator',

    },

    {

        'NAME': 'django.contrib.auth.password\_validation.MinimumLengthValidator',

    },

    {

        'NAME': 'django.contrib.auth.password\_validation.CommonPasswordValidator',

    },

    {

        'NAME': 'django.contrib.auth.password\_validation.NumericPasswordValidator',

    },

]

# Internationalization

# https://docs.djangoproject.com/en/3.0/topics/i18n/

LANGUAGE\_CODE = 'en-us'

TIME\_ZONE = 'UTC'

USE\_I18N = True

USE\_L10N = True

USE\_TZ = True

# Static files (CSS, JavaScript, Images)

# https://docs.djangoproject.com/en/3.0/howto/static-files/

MEDIA\_URL = os.path.join(BASE\_DIR,'/vision/media/')

MEDIA\_ROOT = os.path.join(BASE\_DIR,'/vision/static/')

STATIC\_URL = '/static/'

"""

Django settings for eyetest project.

Generated by 'django-admin startproject' using Django 3.0.2.

For more information on this file, see

https://docs.djangoproject.com/en/3.0/topics/settings/

For the full list of settings and their values, see

https://docs.djangoproject.com/en/3.0/ref/settings/

"""

import os

# Build paths inside the project like this: os.path.join(BASE\_DIR, ...)

BASE\_DIR = os.path.dirname(os.path.dirname(os.path.abspath(\_\_file\_\_)))

# Quick-start development settings - unsuitable for production

# See https://docs.djangoproject.com/en/3.0/howto/deployment/checklist/

# SECURITY WARNING: keep the secret key used in production secret!

SECRET\_KEY = '3irezr\*s!rqmbc!ust$u7c%wzn05l+gn$xhn&dmv5pvz\*z8u)c'

# SECURITY WARNING: don't run with debug turned on in production!

DEBUG = True

ALLOWED\_HOSTS = []

# Application definition

INSTALLED\_APPS = [

    'vision',

    'django.contrib.admin',

    'django.contrib.auth',

    'django.contrib.contenttypes',

    'django.contrib.sessions',

    'django.contrib.messages',

    'django.contrib.staticfiles',

]

MIDDLEWARE = [

    'django.middleware.security.SecurityMiddleware',

    'django.contrib.sessions.middleware.SessionMiddleware',

    'django.middleware.common.CommonMiddleware',

    'django.middleware.csrf.CsrfViewMiddleware',

    'django.contrib.auth.middleware.AuthenticationMiddleware',

    'django.contrib.messages.middleware.MessageMiddleware',

    'django.middleware.clickjacking.XFrameOptionsMiddleware',

]

ROOT\_URLCONF = 'eyetest.urls'

TEMPLATES = [

    {

        'BACKEND': 'django.template.backends.django.DjangoTemplates',

        'DIRS': [],

        'APP\_DIRS': True,

        'OPTIONS': {

            'context\_processors': [

                'django.template.context\_processors.debug',

                'django.template.context\_processors.request',

                'django.contrib.auth.context\_processors.auth',

                'django.contrib.messages.context\_processors.messages',

            ],

        },

    },

]

WSGI\_APPLICATION = 'eyetest.wsgi.application'

# Database

# https://docs.djangoproject.com/en/3.0/ref/settings/#databases

DATABASES = {

    'default': {

        'ENGINE': 'django.db.backends.sqlite3',

        'NAME': os.path.join(BASE\_DIR, 'db.sqlite3'),

    }

}

# Password validation

# https://docs.djangoproject.com/en/3.0/ref/settings/#auth-password-validators

AUTH\_PASSWORD\_VALIDATORS = [

    {

        'NAME': 'django.contrib.auth.password\_validation.UserAttributeSimilarityValidator',

    },

    {

        'NAME': 'django.contrib.auth.password\_validation.MinimumLengthValidator',

    },

    {

        'NAME': 'django.contrib.auth.password\_validation.CommonPasswordValidator',

    },

    {

        'NAME': 'django.contrib.auth.password\_validation.NumericPasswordValidator',

    },

]

# Internationalization

# https://docs.djangoproject.com/en/3.0/topics/i18n/

LANGUAGE\_CODE = 'en-us'

TIME\_ZONE = 'UTC'

USE\_I18N = True

USE\_L10N = True

USE\_TZ = True

# Static files (CSS, JavaScript, Images)

# https://docs.djangoproject.com/en/3.0/howto/static-files/

MEDIA\_URL = os.path.join(BASE\_DIR,'/vision/media/')

MEDIA\_ROOT = os.path.join(BASE\_DIR,'/vision/static/')

STATIC\_URL = '/static/'

"""

WSGI config for eyetest project.

It exposes the WSGI callable as a module-level variable named ``application``.

For more information on this file, see

https://docs.djangoproject.com/en/3.0/howto/deployment/wsgi/

"""

import os

from django.core.wsgi import get\_wsgi\_application

os.environ.setdefault('DJANGO\_SETTINGS\_MODULE', 'eyetest.settings')

application = get\_wsgi\_application()