

Application Building

Build Python Code – Part 1

```
from flask import Flask,render_template,request
from PIL import Image
import numpy as np
from tensorflow.keras.models import load_model
import tensorflow as tf

app = Flask(__name__)

@app.route('/')
def upload_file():
    return render_template('home.html')

@app.route('/about')
def upload_file1():
    return render_template('home.html')

@app.route('/upload')
def upload_file2():
    return render_template('predict.html')
```

```
@app.route('/predict',methods = ['POST'])

if request.method=='POST':

    img = Image.open(request.files['file'].stream).convert("L")
    img = img.resize((28,28))

    img2arr = np.array(img)

    img2arr = img2arr.reshape(1,28,28,1)
    model = load_model('models/model.h5')

    #y_pred = model.predict_classes(img2arr)

    y_pred = np.argmax(model.predict(img2arr), axis=1)
    print(y_pred)
```