```
from cloudant.client import Cloudant


client = Cloudant.iam('6f4f5183-072e-4bd0-b33f-8c0562a8e227-bluemix',
'IcNwIUOYQsMwH32_e2m3xg93E-Af0KVHeiAwVijUAWWC', connect=True)
my_database=client['my_database']


import numpy as np
import os
from flask import Flask, app,request,render_template,redirect,url_for,session
from tensorflow.keras import models
from tensorflow.keras.models import load_model
from tensorflow.keras.preprocessing import image
from tensorflow.python.ops.gen_array_ops import concat
from tensorflow.keras.applications.inception_v3 import preprocess_input
import requests


os.add_dll_directory


model1=load_model(r'D:\Usman\IBM Project\Model\body.h5')
model2=load_model(r'D:\Usman\IBM Project\Model\level.h5')


app=Flask(__name__)
@app.route('/')
def index():
   return render_template('index.html')


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


@app.route('/register.html')
```

```
def register():
    return render_template("register.html")

@app.route('/afterreg',methods=['POST'])
def afterreg():
    x = [x for x in request.form.values()]
    print(x)
    data={'_id':x[1],'name':x[0],'psw':x[2]}
    print(data)
    query={'_id':{'$eq':data['_id']}}
    docs=my_database.get_query_result(query)
    print(docs)
    print(len(docs.all()))
    if (len(docs.all())==0):
        url=my_database.create_document(data)
        return render_template("register.html",pred="Registration Successful, please login with  your details")
    else:
        return render_template("register.html",pred="You are already a member, please login using your registered details")

@app.route('/login.html')
def login():
    return render_template("login.html")

@app.route('/afterlogin',methods=['POST'])
def afterlogin():
    user=request.form['_id']
    passw=request.form['psw']
    print(user,passw)
    query={'_id':{'$eq':user}}
    docs=my_database.get_query_result(query)
    print(docs)

    print(len(docs.all()))

    if (len(docs.all())==0):
        return render_template("login.html",pred="The username or password is incorrect. Please login
with correct details.")
    else:
        if((user==docs[0][0]['_id']and passw==docs[0][0]['psw'])):
            return redirect(url_for('prediction'))
        else:
            return render_template("login.html",pred="The username is not found or the details you've
entered is incorrect.")

@app.route('/logout.html')
def logout():
    return render_template("logout.html")

@app.route('/prediction.html')
def prediction():
    return render_template("prediction.html")

@app.route('/result',methods=["GET","POST"])
def result():
    if request.method=="POST":
        f=request.files['file']
        basepath=os.path.dirname("__file__")
        filepath=os.path.join(basepath,'uploads', f.filename)
        f.save(filepath)
        img=image.load_img(filepath,target_size=(256, 256))
        x=image.img_to_array(img)
        x=np.expand_dims(x,axis=0)
        img_data=preprocess_input(x)
        prediction1=np.argmax(model1.predict(img_data))
        prediction2=np.argmax(model2.predict(img_data))
        index1=['front','rear','side']
        index2=['minor','moderate','severe']
        result1=index1[prediction1]
        result2=index2[prediction2]
        print(result1)
        print(result2)
        if(result1=="front"and result2=="minor"):
            value="3000 - 5000 INR"
        elif(result1=="front"and result2=="moderate"):
            value="6000 - 8000 INR"
        elif(result1=="front"and result2=="severe"):
            value="9000 - 11000 INR"
        elif(result1=="rear"and result2=="minor"):
            value="4000 - 6000 INR"
        elif(result1=="rear"and result2=="moderate"):
            value="7000 - 9000 INR"
        elif(result1=="rear"and result2=="severe"):
            value="11000 - 13000 INR"
        elif(result1=="side"and result2=="minor"):
            value="6000 - 8000 INR"
        elif(result1=="side"and result2=="moderate"):
            value="9000 - 11000 INR"
        elif(result1=="side"and result2=="severe"):
            value="12000 - 15000 INR"
        else:
            value="16000 - 50000 INR"
        return render_template("result.html", prediction="The Estimated cost for the damage is: 
"+value)
```

```
if __name__=="__main__":
    app.run(debug=False,port=8080)
```