

PROJECT DEVELOPMENT PHASE

SPRINT-4 SOURCE CODE

Date	17 November 2022
Team ID	PNT2022TMID30874
Project Name	Intelligent vehicle damage assessment & cost estimator for insurance companies.
Maximum Marks	8 Marks

Dashboard.html

```
<html>
<head>
<title>
  Intelligent Vehicle Damage Assessment and Cost Estimator for insurance
  Companies
</title>
<style type="text/css">
  #topmenu {
    width: 100%;
    background-color: 312D2D;
    height: 50px;
  }
  #hedder {
    color: white;
    padding-top: 13px;
    padding-left: 60px;
  }

  #home {
    float: right;
    padding-top: 13px;
    padding-right: 50px;
    color: rgb(222, 216, 216);
```

```
    font-size: medium;
}
#login {
    float: right;
    padding-top: 13px;
    padding-right: 50px;
    color: rgb(222, 216, 216);
    font-size: medium;
}
#register {
    float: right;
    padding-top: 13px;
    padding-right: 50px;
    color: rgb(222, 216, 216);
    font-size: medium;
}
#prediction {
    float: right;
    padding-top: 13px;
    padding-right: 50px;
    color: rgb(222, 216, 216);
    font-size: medium;
}
#about {
    text-align: center;
    padding-top: 10%;
    color: gray;
    font-size: 20px;
}
#footer {
    width: 99%;
```

```
background-color: 312D2D;
height: 50px;
position: absolute;
bottom: 1%;
}
#textcontent {
color: white;
font-size: 15px;
padding-left: 18%;
padding-top: 1%;
}
#logo {
margin-top: -1.5%;
margin-right: 28%;
float: right;
}
.container {
display: flex;
}
#vehicle_img {
margin-top: 4%;
margin-left: 5%;
}
#topic_content {
font-family: Georgia;
font-size: large;
padding-top: 4%;
color: DodgerBlue;
padding-right: 10%;
}
.pname1 {
```

```
margin-top: 3%;
font-weight: 600 !important;
font-size: large;
color: SlateBlue !important;
}
.login_prediction {
  display: flex;
}
#login_details {
  padding-left: 10%;
}
#signin {
  text-align: center;
  padding-bottom: 10%;
  font-size: large;
}
#predict {
  text-align: right;
}
#blink {
  color: red;
  animation: blinker 0.9s linear infinite;
  font-weight: bold;
}
@keyframes blinker {
  50% {
    opacity: 0;
  }
}
</style>
</head>
```

```
<body onload="flashMessage()">
<script>
function flashMessage(){
  if("{{ flash_message }}" == "True"){
    alert("account created successfully")
  }
  if("{{ flash_message }}" == "Fals"){
    alert("invalid credentials")
  }
  if("{{ flash_message }}" == "Fal"){
    alert("Logged in successfully")
  }
}
</script>
<div id="topmenu">
  <div id="prediction">
    <a href="{{ url_for('prediction') }}" style="color: white;text-decoration: none;">prediction</a>
  </div>
  <div id="register">
    <a href="{{ url_for('register') }}" style="color: white;text-decoration: none;">Register</a>
  </div>
  <div id="login">
    <a href="{{ url_for('login') }}" style="color: white;text-decoration: none;">Login</a>
  </div>
  <div id="home">
    <a href="{{ url_for('dashboard') }}" style="color: white;text-decoration: none;">Home</a>
  </div>
  <div id="hedder">
    Intelligent Vehicle Damage Assessment & Cost Estimator for Insurance
    Companies
  </div>
```

</div>

<div class="container">

<div id="vehicle_img">

</div>

<div id="topic_content">

<p>

<i>

Vehicle Damage detection uses algorithms to automatically detect a vehicle's exterior body and assess its injuries and the extent of the damage. Here damage to the vehicle are identified not only for insurance purpose but also for repair cost estimation.

</i>

</p>

</div>

</div>

<div id="slider_text">

<marquee

class="pname1"

direction="left"

behavior="scroll"

scrollamount="10"

>Login to know more about the level of damage and cost estimation</marquee

>

</div>

```
<div class="login_prediction">
  <div id="login_details" style="padding-top: 5%">
    <div id="signin">
      <b><i>Log in</i></b>
    </div>
    <form action="dashboard" method="POST">
      <input
        type="text"
        name="email"
        id="email"
        placeholder="Enter registered email ID"
        style="width: 150%; height: 35px"
      /><br />
      <br />
      <input
        type="password"
        name="password"
        id="password"
        placeholder="Enter Password"
        style="width: 150%; height: 35px"
      /><br />
      <br />
      <input
        type="submit"
        name="submit"
        id="submit"
        value="Login"
        style="
          width: 150%;
          height: 35px;
          text-align: center;
```

```

        background-color: black;
        color: white;
        "
    />
</form>
</div>
<div id="predict" style="text-align: center;margin-left: 25%;">
    <p>
        <b>To predict the cost for the damage in vehicle and percentage of damage in car </b>
    </p>
    <!--<p id="blink">Click Here!</p>-->
</div>
</div>

<div id="footer">
    <div id="textcontent">Copyright</div>
    <div id="logo">
        

        
    </div>
</div>

```



```
</div>
</body>
</html>
```

Prediction.html

```
<html>
<head>
<title>index</title>
<style type="text/css">
#topmenu {
    width: 100%;
    background-color: 312D2D;
    height: 50px;
}
#hedder {
    color: white;
    padding-top: 13px;
    padding-left: 60px;
}

#home {
    float: right;
    padding-top: 13px;
    padding-right: 50px;
    color: rgb(222, 216, 216);
    font-size: medium;
}
#login {
    float: right;
    padding-top: 13px;
```

```
padding-right: 50px;
color: rgb(222, 216, 216);
font-size: medium;
}
#register {
float: right;

padding-top: 13px;
padding-right: 50px;
color: rgb(222, 216, 216);
font-size: medium;
}
#prediction {
float: right;

padding-top: 13px;
padding-right: 50px;
color: rgb(222, 216, 216);
font-size: medium;
}
#about {
text-align: center;
padding-top: 10%;
color: gray;
font-size: 20px;
}
#content {
padding-top: 50px;
padding-left: 40px;
padding-right: 40px;
font-size: large;
}
```

```

#footer {
    width: 99%;
    background-color: 312D2D;
    height: 50px;
    position: absolute;
    bottom: 1%;
}
#textcontent {
    color: white;
    font-size: 15px;
    padding-left: 18%;
    padding-top: 1%;
}
#logo {
    margin-top: -1.5%;
    margin-right: 28%;
    float: right;
}
</style>
</head>
<body onload="flashMessage()">
<div id="topmenu">
<div id="login">
    <a href="{ { url_for('logout') } }" style="color: white;text-decoration: none;">Logout</a>
</div>
<div id="home">
    <a href="{ { url_for('dashboard') } }" style="color: white;text-decoration: none;">Home</a>
</div>
<div id="hedder">
    Intelligent Vehicle Damage Assessment & Cost Estimator for Insurance

```

Companies

</div>

</div>

<form action="prediction" method="POST" enctype="multipart/form-data">

<input type="file" id="myFile" name="myFile">

<input type="submit">

<script>

function flashMessage(){

if("{{ flash_message }}" == "True"){

// alert("invalid credentials")

// const im = document.createElement('img');

// im.src = "{{ url_for('static', filename='imagedata/save.png') }}"

// im.height = "200px";

// im.width = '200px';

// im.alt = 'hello world'

// document.getElementById('about').appendChild(im);

document.getElementById('image').src = 'static/imagedata/save.png';

const e = document.getElementById("qwerty");

const para = document.createElement("p");

const node = document.createTextNode("The prediction of vehicle is : | {{ value }} |");

para.appendChild(node);

e.appendChild(para);

}

}

</script>

</form>

<!-- <script>

function flashMessage(){

if("{{ flash_message }}" == "True"){

const im = document.createElement('img');

```

        im.src = "{ {url_for('static', filename='static/image data/save.png')}}";
        im.height = "200px";
        im.width = '200px';
        im.alt = 'hello world'

    }

}

</script> -->
<!--  -->

<div id="about">

    <div id="qwerty">

        <p></p>

    </div>

    <hr style="width: 30%" color="yellow" />

    

</div>


<div id="footer">

    <div id="textcontent">Copyright</div>

    <div id="logo">

        

        
</div>
</div>
</body>
</html>

```

Register.html

```

<html>
<head>
<title>Register</title>
<style type="text/css">
#topmenu {
    width: 100%;
    background-color: 312D2D;
    height: 50px;
}
#hedder {
    color: white;
    font-size: large;
    padding-top: 13px;
    padding-left: 40px;
}
#home {
    float: right;
    padding-top: 13px;
    padding-right: 50px;
    color: rgb(222, 216, 216);
    font-size: medium;
}
#login {
    float: right;
    padding-top: 13px;
    padding-right: 50px;
    color: rgb(222, 216, 216);
    font-size: medium;
}
#register {
    float: right;
    padding-top: 13px;

```

```

padding-right: 50px;
color: rgb(222, 216, 216);
font-size: medium;
}
#box {
height: 300px;
width: 500px;
background-color: antiquewhite;
margin: 10px;
border-color: black;
border-width: 25px;
}
div.background {
border: 2px solid gray;
height: 350px;
width: 500px;
margin: auto;
margin-top: 7%;
}
#registerlogo {
text-align: center;
margin-top: 20px;
}
#textcontent {
margin-top: 28px;
margin-left: 25px;
}
div.choice {
border: 2px solid gray;
height: 35px;
width: 500px;
background-color: rgb(230, 227, 227);
margin: auto;
margin-top: 0%;
}

#question {
margin-top: 7px;
}
#choice-login {
color: rgb(67, 64, 247);
text-decoration: underline;
margin-left: 200px;
margin-top: -20px;
}
</style>
</head>
<body onload="flashMessage()">
<div id="topmenu">
<div id="login">
<a href="{{ url_for('login') }}" style="color: white;text-decoration: none;">Login</a>
</div>
<div id="home">
<a href="{{ url_for('dashboard') }}" style="color: white;text-decoration: none;">Home</a>
</div>
<div id="hedder">Vehicle Damage Detection</div>

```

```

</div>
<div class="background">
  <div id="registerlogo">
    
  </div>
  <div id="textcontent">
    <form action="register" method="POST">
      <script>
        function flashMessage(){
          if("{flash_message}" == "True"){
            alert("account with this email id already exist")
          }
        }
      </script>
      <input
        type="text"
        name="name"
        id="name"
        placeholder="Enter Name"
        style="width: 440px; height: 35px; margin-bottom: 15px"
      />
      <input
        type="text"
        name="email"
        id="email"
        placeholder="Enter Email ID"
        style="width: 440px; height: 35px; margin-bottom: 15px"
      />
      <input
        type="password"
        name="password"
        id="password"
        placeholder="Enter Password"
        style="width: 440px; height: 35px; margin-bottom: 15px"
      />
      <input
        type="submit"
        value="Register"
        name="submit"
        style="
          width: 440px;
          height: 35px;
          text-align: center;
          background-color: black;
          color: white;
        "
      />
    </form>
  </div>
</div>
<div class="choice">

```



```

<div id="question">Already have an account?</div>
<div id="choice-login">
  <a href="{ { url_for('login') } }" style="color: #7ed8ff;">Login</a>
</div>
</div>
</body>
</html>

```

Login.html

```

<html>
<head>
<title>Register</title>
<style type="text/css">
#topmenu {
  width: 100%;
  background-color: 312D2D;
  height: 50px;
}
#hedder {
  color: white;
  font-size: large;
  padding-top: 13px;
  padding-left: 40px;
}
#home {
  float: right;
  padding-top: 13px;
  padding-right: 50px;
  color: rgb(222, 216, 216);
  font-size: medium;
}
#login {
  float: right;
  padding-top: 13px;
  padding-right: 50px;
  color: rgb(222, 216, 216);
  font-size: medium;
}
#register {
  float: right;
  padding-top: 13px;
  padding-right: 50px;
  color: rgb(222, 216, 216);
  font-size: medium;
}
#box {
  height: 300px;
  width: 500px;
  background-color: antiquewhite;
  margin: 10px;
  border-color: black;

```

```

    border-width: 25px;
}
div.background {
    border: 2px solid gray;
    height: 350px;
    width: 500px;
    margin: auto;
    margin-top: 7%;
}
#registerlogo {
    text-align: center;
    margin-top: 20px;
}
#textcontent {
    margin-top: 28px;
    margin-left: 25px;
}
div.choice {
    border: 2px solid gray;
    height: 35px;
    width: 500px;
    background-color: rgb(230, 227, 227);
    margin: auto;
    margin-top: 0%;
}

#question {
    margin-top: 7px;
}
#choice-login {
    color: rgb(67, 64, 247);
    text-decoration: underline;
    margin-left: 200px;
    margin-top: -20px;
}
</style>
</head>
<body onload="flashMessage()">
<div id="topmenu">
<div id="login">
    <a href="{{ url_for('login') }}" style="color: white;text-decoration: none;">Login</a>
</div>
<div id="home">
    <a href="{{ url_for('dashboard') }}" style="color: white;text-decoration: none;">Home</a>
</div>
<div id="hedder">Vehicle Damage Detection</div>
</div>
<div class="background">
<div id="registerlogo">
    
</div>
<div id="textcontent">

```

```

<form action="register" method="POST">
  <script>
    function flashMessage(){
      if("{{ flash_message }}" == "True"){
        alert("account with this email id already exist")
      }
    }
  </script>
  <input
    type="text"
    name="name"
    id="name"
    placeholder="Enter Name"
    style="width: 440px; height: 35px; margin-bottom: 15px"
  />
  <input
    type="text"
    name="email"
    id="email"
    placeholder="Enter Email ID"
    style="width: 440px; height: 35px; margin-bottom: 15px"
  />
  <input
    type="password"
    name="password"
    id="password"
    placeholder="Enter Password"
    style="width: 440px; height: 35px; margin-bottom: 15px"
  />
  <input
    type="submit"
    value="Register"
    name="submit"
    style="
      width: 440px;
      height: 35px;
      text-align: center;
      background-color: black;
      color: white;
    "
  />
</form>
</div>
<div class="choice">
  <div id="question">Already have an account?</div>
  <div id="choice-login">
    <a href="{{ url_for('login') }}" style="color: #7ed8ff;">Login</a>
  </div>
</div>
</body>
</html>

```

Index.html

```
<html>
<head>
<title>index</title>
<style type="text/css">
#topmenu {
width: 100%;
background-color: 312D2D;
height: 50px;
}
#hedder {
color: white;
padding-top: 13px;
padding-left: 60px;
}

#home {
float: right;
padding-top: 13px;
padding-right: 50px;
color: rgb(222, 216, 216);
font-size: medium;
}
#login {
float: right;
padding-top: 13px;
padding-right: 50px;
color: rgb(222, 216, 216);
font-size: medium;
}
#register {
float: right;
padding-top: 13px;
padding-right: 50px;
color: rgb(222, 216, 216);
font-size: medium;
}
#prediction {
float: right;
padding-top: 13px;
padding-right: 50px;
color: rgb(222, 216, 216);
font-size: medium;
}
#about {
text-align: center;
padding-top: 10%;
color: gray;
font-size: 20px;
}
#content {
padding-top: 50px;
```

```

padding-left: 40px;
padding-right: 40px;
font-size: large;
}
#footer {
width: 99%;
background-color: 312D2D;
height: 50px;
position: absolute;
bottom: 1%;
}
#textcontent {
color: white;
font-size: 15px;
padding-left: 18%;
padding-top: 1%;
}
#logo {
margin-top: -1.5%;
margin-right: 28%;
float: right;
}
</style>
</head>
<body>
<div id="topmenu">
<div id="prediction">
<a href="{{ url_for('prediction') }}" style="color: white;text-decoration: none;">prediction</a>
</div>
<div id="register">
<a href="{{ url_for('register') }}" style="color: white;text-decoration: none;">Register</a>
</div>
<div id="login">
<a href="{{ url_for('login') }}" style="color: white;text-decoration: none;">Login</a>
</div>
<div id="home">
<a href="{{ url_for('dashboard') }}" style="color: white;text-decoration: none;">Home</a>
</div>
<div id="hedder">
Intelligent Vehicle Damage Assessment & Cost Estimator for Insurance
Companies
</div>
</div>
<div id="about">
ABOUT PROJECT
<hr style="width: 13%" color="yellow" />
</div>
<div id="content">
<p>
Vehicle damage detection is used to reduce claims leakage during
insurance processing. Visual inception and validation are usually done.
As it takes a long time, because a person needs to come and inspect the
damage. Here we are trying to automate the procedure. Using this
automation, we can avoid time conception for the insurance claim
problem.
</p>

```

```

</div>

<div id="footer">
  <div id="textcontent">Copyright</div>
  <div id="logo">
    

    
  </div>
</div>
</body>
</html>

```

Logout.html

```

<html>
<head>
  <title>Logout</title>
  <style type="text/css">
    #topmenu {
      width: 100%;
      background-color: 312D2D;
      height: 50px;
    }
    #hedder {
      color: white;
      font-size: large;
      padding-top: 13px;
      padding-left: 40px;
    }
    #home {
      float: right;
      padding-top: 13px;
      padding-right: 50px;
      color: rgb(222, 216, 216);
      font-size: medium;
    }
    #login {
      float: right;
      padding-top: 13px;
      padding-right: 50px;
      color: rgb(222, 216, 216);
      font-size: medium;
    }
  </style>

```

```

}
#register {
  float: right;
  padding-top: 13px;
  padding-right: 50px;
  color: rgb(222, 216, 216);
  font-size: medium;
}
#loggedout {
  color: black;
  font-size: large;
  text-align: center;
  justify-content: center;
  position: absolute;
  top: 50%;
  left: 40%;
  transform: translateY(-500%);
}
#info {
  color: green;
  font-size: small;
  display: flex;
  align-items: center;
  justify-content: center;
  text-align: center;
  position: absolute;
  top: 50%;
  left: 40%;
  transform: translateY(-500%);
}
#login-button {
  margin: 0%;
  display: flex;
  align-items: center;
  justify-content: center;
  text-align: center;
  position: absolute;
  top: 50%;
  left: 40%;
  transform: translateY(-500%);
}
</style>
</head>
<body>
  <div id="topmenu">
    <div id="register">
      <a href="{{ url_for('register') }}" style="color: white;text-decoration: none;">Register</a>
    </div>
    <div id="login">
      <a href="{{ url_for('login') }}" style="color: white;text-decoration: none;">Login</a>
    </div>
    <div id="home">
      <a href="{{ url_for('dashboard') }}" style="color: white;text-decoration: none;">Home</a>
    </div>

    <div id="hedder">Vehicle Damage Detection</div>

```

```

</div>
<div id="loggedout" style="vertical-align: middle">
    Successfully Logged Out!
</div>
<div id="info">Login for more information and gain the knowledge</div>
<div id="login-button">
    <form action="">
        <input
            type="submit"
            value="Login"
            style="
                background-color: black;
                color: white;
                width: 200px;
                height: 35px;
            "
        />
    </form>
</div>
</body>
</html>

```

Main.py

```

from flask import Flask, app, request, render_template
import os
import flask
import flask_login
import base64
from PIL import Image
from io import BytesIO
import datetime
import cv2
import numpy as np
from tensorflow.keras.models import load_model
from cloudant.client import Cloudant
from cloudant.error import CloudantException
from cloudant.result import Result, ResultByKey

```

```

#os.chdir('Project Development Phase\Sprint-3')
model1 = load_model('Model/level.h5')
model2 = load_model('Model/body.h5')

```

```

def detect(frame,model1,f):
    img = cv2.resize(frame,(244,244))
    img = cv2.cvtColor(img,cv2.COLOR_BGR2RGB)
    if(np.max(img)>1):
        img=img/255.0
    img = np.array([img])

```



```

prediction = model1.predict(img)
if(f):
    label= ['front','rear','side']
else:
    label =['minor','moderate','severe']
preds = label[np.argmax(prediction)]
return preds

```

```

client = Cloudant.iam(
    '74ea3e6f-04fa-4f93-977a-f90736ba19f7-
    bluemix','el8X3foZgdln6z0hsZefVOtCAG8bKC39O8nbBWUQnnGx',connect=True)
name = 'name'
email = 'a@b.c'
password = '123'

```

```

user_database = client.create_database('user_database')
user_image_database = client.create_database('user_image_database')
#upload the database to divyasri account

```

```

def image_database_updation(name,email,imagestr):
    global user_image_database
    now = datetime.datetime.now()
    json_image_document={
        'name':name,
        'email':email,
        'image':imagestr,
        'datetime':now.strftime("%m/%d/%Y, %H:%M:%S")
    }
    new_image_document = user_image_database.create_document(json_image_document)
    if(new_image_document.exists()):
        print('database updated')
    else:
        print('database couldn\'t be edited')
    return

```

```

def image_database_retrieval():
    global user_image_database
    image_result_retrieved = Result(user_image_database.all_docs,include_docs=True)
    image_result={}
    for i in image_result_retrieved:
        if(i['doc']['email'] in image_result.keys()):
            # like current date> rx date(str)
            n = datetime.datetime.strptime(i['doc']['datetime'], '%m/%d/%Y, %H:%M:%S')
            o = datetime.datetime.strptime(image_result[i['doc']['email']]['date'], '%m/%d/%Y, %H:%M:%S')
            if(n>o):

                image_result[i['doc']['email']] = { 'name':i['doc']['name'],'image':i['doc']['image'],'date':i['doc']['datetime']}
        else:
            image_result[i['doc']['email']] = { 'name':i['doc']['name'],'image':i['doc']['image'],'date':i['doc']['datetime']}
    return(image_result)

```

```

def database_updation(name,email,password):
    global user_database

```

```

jsonDocument = {
    'name':name,
    'email':email,
    'password':password
}
newDocument = user_database.create_document(jsonDocument)
if(newDocument.exists()):
    print('database updated')
else:
    print('database couldn\'t be edited')
return
#database_updation(name,email,password)

def database_retrieval():
    global user_database
    result_retrieved = Result(user_database.all_docs,include_docs=True)
    #print(list(result_retrieved))
    result = {}
    for i in list(result_retrieved):
        result[i['doc']]['email']={ 'name':i['doc']['name'],'password':i['doc']['password']}
    return result
#print(database_retrieval())
app = Flask(_name_)
app.secret_key = 'apple'
login_manager = flask_login.LoginManager()

login_manager.init_app(app)
users = {'a@b.c': {'password': '123'}}
class User(flask_login.UserMixin):
    pass

@login_manager.user_loader
def user_loader(email):
    data = database_retrieval()
    if email not in data:
        return

    user = User()
    user.id = email
    user.name = data[email]['name']
    return user

@login_manager.request_loader
def request_loader(request):
    email = request.form.get('email')
    data = database_retrieval()
    if email not in data:
        return

    user = User()
    user.id = email
    user.name = data[email]['name']
    return user
@app.route('/')

```

```

def index():
    if(flask_login.current_user.is_authenticated):
        return render_template('dashboard.html')
    else:
        return flask.redirect(flask.url_for('login'))

@app.route('/register',methods = ['GET','POST'])
def register():
    data = database_retrieval()
    if(flask.request.method == 'GET'):
        return render_template('register.html')
    email = flask.request.form['email']
    if(email in data):
        return render_template('register.html',flash_message=True)
    else:
        database_updatation(flask.request.form['name'],email,flask.request.form['password'])
        #users[email]={ 'password':flask.request.form['password']}
        user = User()
        user.id = email
        user.name = flask.request.form['name']
        flask_login.login_user(user)
        return render_template('dashboard.html',flash_message=True)

@app.route('/login',methods = ['GET','POST'])
def login():
    data = database_retrieval()
    if(flask.request.method == 'GET'):

        return render_template('login.html',flash_message=False)
    email = flask.request.form['email']
    if(email in data and flask.request.form['password']==data[email]['password']):
        user = User()
        user.id = email
        flask_login.login_user(user)
        return render_template('dashboard.html',flash_message=False)
    #flask.flash('invalid credentials !!!')
    return render_template('login.html',flash_message=True)
    #error = 'invalid credentials')

@app.route('/dashboard',methods = ['GET','POST'])
@flask_login.login_required
def dashboard():
    if(flask.request.method == 'GET'):
        return render_template('dashboard.html',flash_message=False)
    email = flask.request.form['email']
    if(email in users and flask.request.form['password']==users[email]['password']):
        user = User()
        user.id = email
        flask_login.login_user(user)
        return render_template('dashboard.html',flash_message=False)
    return render_template('dashboard.html',flash_message=False)

```

```

@app.route('/logout')
@flask_login.login_required
def logout():
    flask_login.logout_user()
    return render_template('logout.html')

@app.route('/prediction', methods = ['GET', 'POST'])
@flask_login.login_required
def prediction():
    if(flask.request.method=='POST'):
        img = flask.request.files['myFile']
        try:
            os.remove('static\imagedata\save.png')
        except:
            pass
        imgstr = base64.b64encode(img.read()).decode('utf-8')
        image_database_updatation(flask_login.current_user.name, flask_login.current_user.id, imgstr)
        data = image_database_retrieval()
        print(flask_login.current_user.id)
        #print(len(base64.b64decode(data[flask_login.current_user.id]['image']).strip()))
        image = Image.open(BytesIO(base64.b64decode(data[flask_login.current_user.id]['image'])))
        img_retrived = np.array(image)
        """img_retrived = np.asarray(base64.b64decode(data[flask_login.current_user.id]['image']))
        print(data[flask_login.current_user.id]['image'])
        print(img_retrived.shape)"""
        #img_retrived = np.resize(img_retrived, (244, 244))
        img_retrive = Image.fromarray(img_retrived)
        img_retrive.save('static/image data/sae.png')
        """img_retrived = np.frombuffer(
            BytesIO(
                base64.b64decode(data[flask_login.current_user.id]['image'])
            )
        )"""
        print('#####')
        result1 = detect(img_retrived, model1=model2, f=True)
        result2 = detect(img_retrived, model1=model1, f=False)
        value=""
        if(result1 == 'front' and result2 == 'minor'):
            value = 'Cost=3000 - 5000 INR , Percentage=10% , Type=car front minor damage'
        elif(result1 == 'front' and result2 == 'moderate'):
            value = 'Cost=6000 - 8000 INR , Percentage=20% , Type=car front moderate damage'
        elif(result1 == 'front' and result2 == 'severe'):
            value = 'Cost=9000 - 11000 INR , Percentage=30% , Type=car front severe damage'
        elif(result1 == 'rear' and result2 == 'minor'):
            value = 'Cost=4000 - 6000 INR , Percentage=40% , Type=car rear minor damage'
        elif(result1 == 'rear' and result2 == 'moderate'):
            value = 'Cost=7000 - 9000 INR , Percentage=50% , Type=car rear moderate damage'
        elif(result1 == 'rear' and result2 == 'severe'):
            value = 'Cost=11000 - 13000 INR , Percentage=60% , Type=car rear severe damage'
        elif(result1 == 'side' and result2 == 'minor'):
            value = 'Cost=6000 - 8000 INR , Percentage=70% , Type=car side minor damage'
        elif(result1 == 'side' and result2 == 'moderate'):
            value = 'Cost=9000 - 11000 INR , Percentage=80% , Type=car side moderate damage'
        elif(result1 == 'side' and result2 == 'severe'):
            value = 'Cost=12000 - 15000 INR , Percentage=90% , Type=car side severe damage'

```

```

else:
    value = '16000 - 50000 INR , Percentage=100% ,Type=heavy damage'
    print(result1,result2,value)
    print('#####')
    img_retrived = Image.fromarray(img_retrived)
    img_retrived.save('static/image_data/save.png')
    print('image uploaded and retrieved')
    return render_template('prediction.html',flash_message="True",value = result1+' '+result2+' '+value)
    #,imag=img_retrived)

return render_template('prediction.html',flash_message="Flase")

if __name__ == '__main__':
    app.run(debug=True)

```