Project Development Phase Sprint 4

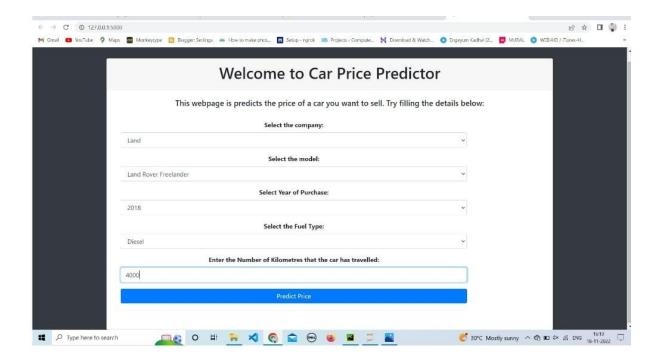
Date	14 November 2022
Team ID	PNT2022TMID41243
Project Name	Car Resale Value Prediction

Sprint 4 tasks:

- Creating web application
- Embedding Dashboard to web application
- Embedding Report to web application
- Embedding Story to web application

Creating web application:

```
File Edit Selection Find View Goto Tools Project Preferences Help
     k!DOCTYPE html>
      <html lang="en">
      <head xmlns="http://www.w3.org/1999/xhtml">
          <meta charset="UTF-8">
          <title>Car Price Predictor</title>
          <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>
          <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.js"</pre>
                  integrity="sha384-Q6E9RHvbIyZFJoft+2mJbHaEWldlvI9IOYy5n3zV9zzTtmI3UksdQRVvoxMfooAo"
                  crossorigin="anonymous"></script>
          <!-- Bootstrap CSS -->
          clink rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/css/bootstrap.min.css"
                integrity="sha384-9aIt2nRpC12Uk9gS9baD1411NQApFmC26EwAOH8WgZ15MYYxFfc+NcPb1dKGj7Sk" crossorigin="anonymous">
          <script src="https://cdn.jsdelivr.net/npm/@tensorflow/tfjs@2.0.0/dist/tf.min.js"></script>
  20 <body class="bg-dark">
             <div class="card mt-50" style="width: 100%; height: 100%">
                  <div class="card-header" style="text-align: center">
                      <h1>Welcome to Car Price Predictor</h1>
                  <div class="col-12" style="text-align: center">
                          <h5>This webpage is predicts the price of a car you want to sell. Try filling the details below: 
                       <form method="post" accept-charset="utf-8" name="Modelform">
Line 1, Column 1
```



Embedding Story to web application:

```
in main.py - D:\IBM project\Project Development Phase\Sprint 2\main.py (3.11.0)
File Edit Format Run Options Window Help
from flask import Flask,render_template,request,redirect
 from flask_cors import CORS
 import pickle
 import pandas as pd
 import numpy as np
 from sklearn.preprocessing import LabelEncoder
 app=Flask(__name_
cors=CORS(app)
model=pickle.load(open('LinearRegressionModel.pkl','rb'))
 car=pd.read_csv('Cleaned_Car_data.csv')
@app.route('/',methods=['GET','POST'])
 def index():
     companies=sorted(car['company'].unique())
car_models=sorted(car['name'].unique())
     car_models=sorted(car['year'].unique(), reverse=True)
fuel_type=car['fuel_type'].unique()
companies.insert(0, 'Select Company')
return render_template('index.html',companies=companies, car_models=car_models, years=year,fuel_types=fuel_type)
def cross_origin(**kwargs):
    _options = kwargs
def decorator(f):
      LOG.debug("Enabling %s for cross_origin using options: %s", f, options)
      if _options.get('automatic_options', True):
    f.required_methods = getattr(f, 'required_methods', set())
    f.required_methods.add('OPTIONS')
           f.provide_automatic_options = False
     def wrapped function(*args, **kwargs):
          # Handle setting of Flask-Cors parameters
options = get_cors_options(current_app, _options)
          if options.get('automatic_options') and request.method == 'OPTIONS':
                resp = current_app.make_default_options_response()
               resp = make_response(f(*args, **kwargs))
          set cors headers (resp, options)
           setattr(resp, FLASK_CORS_EVALUATED, True)
           return resp
      return update_wrapper(wrapped_function, f)
      return decorator
```

main.py - D:\IBM project\Project Development Phase\Sprint 2\main.py (3.11.0)

```
File Edit Format Run Options Window Help
      return render template('index.html',companies=companies, car models=car models, years=year,fuel types=fuel type)
def cross_origin(**kwargs):
      _options = kwargs
def decorator(f):
      decorator(f):
LOG.debug("Enabling %s for cross_origin using options:%s", f, _options)
if _options.get('automatic_options', True):
    f.required_methods = getattr(f, 'required_methods', set())
    f.required_methods.add('OPTIONS')
    f.provide_automatic_options = False
      def wrapped_function(*args, **kwargs):
            # Handle setting of Flask-Cors parameters
options = get_cors_options(current_app, _options)
            if options.get('automatic_options') and request.method == 'OPTIONS':
    resp = current_app.make_default_options_response()
                   resp = make_response(f(*args, **kwargs))
            set_cors_headers(resp, options)
setattr(resp, FLASK_CORS_EVALUATED, True)
            return resp
      return update_wrapper(wrapped_function, f)
return decorator
@app.route('/predict',methods=['FOST'])
def predict():
      company=request.form.get('company')
      car_model=request.form.get('car_models')
      year=request.form.get('year')
      year=request.form.get('year')
fuel_type=request.form.get('fuel_type')
driven=request.form.get('kilo_driven')
columns = ['name', 'company', 'year', 'kms_driven', 'fuel_type']
data = np.array([car_model, company, year, driven, fuel_type])
      prediction=model.predict(pd.DataFrame(columns,data.reshape(1,5)))
      print (prediction)
      return str(np.round(prediction[0],2))
if __name__ == '__main_
app.run(debug=True)
```

Select the company:	
Datsun	
	Select the model:
Datsun Go Plus	
	Select Year of Purchase:
2010	
	Select the Fuel Type:
Diesel	
Ent	r the Number of Kilometres that the car has travelled:
12000	
	Predict Price