Index.html

In [ ]:
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<html>
<body>
    <CENTER>
    <h1 style="text-align: center">M5 Forcasting Accuracy</h1>
    <!-- <img src="C:\\Users\91998\Desktop\Git Commit\HeroKuDeployment\For_live\IRIS\templates\walmart.
png" width="800" height="300"> -->


   <form method="POST" enctype=multipart/form-data>
   <h3>File: <input type = "file" name = "file" /></h3>


<input type="submit" value="Submit" size="12">
</form>
<p> {{message}} </p>

</CENTER>
</body>
</html>
```

{{message}}

app.py

In [ ]:
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#Web link :  https://casestudym5.herokuapp.com/index
from flask import Flask, jsonify, request
import numpy as np
import pandas as pd
import lightgbm as lgb
import time
from joblib import load

# https://www.tutorialspoint.com/flask
import flask
app = Flask(__name__)


@app.route('/')
def hello_world():
    return 'Hello World!'

@app.route('/index', methods=['GET', 'POST'])
def predict():
    if request.method == 'POST':
        file = request.files['file']
        path = "C:\\Users\\91998\\Desktop\\Git Commit\\HeroKuDeployment\\For_live\\IRIS\\uploads\\" + f
ile.filename

        file.save(path)
        # print("file uploaded successfully")
        path = pd.read_csv(path)
        model = load("lightgbm")
        col = [ 'item_id', 'dept_id', 'cat_id', 'store_id', 'state_id',
        'wm_yr_wk', 'event_name_1', 'event_type_1',
        'event_name_2', 'event_type_2', 'snap_CA', 'snap_TX', 'snap_WI',
        'sell_price', 'lag_28', 'lag_29', 'lag_30', 'rolling_mean_t7',
        'rolling_std_t7', 'year', 'month', 'day', 'week']
        start_time = time.time()
        for i in range(28, 31):
            index_name = "lag_"+str(i)
            path[index_name] = path.groupby(['id'])['demand'].transform(lambda x: x.shift(i))
        path['rolling_mean_t7'] = path.groupby(['id'])['demand'].transform(lambda x: x.shift(28).rollin
g(7).mean())
        path['rolling_std_t7'] = path.groupby(['id'])['demand'].transform(lambda x: x.shift(28).rolling
(7).std())
        y_pred = model.predict(path[col])
        path['demand'] = y_pred
        predictions = path[['id', 'date', 'demand']]
        predictions = predictions.pivot_table( index = 'id', columns = 'date', values = 'demand')
        columns = ['F' + str(i + 1) for i in range(28)]
        predictions.columns = columns


        d =  str(time.time() - start_time) + str("seconds" )
        predictions['execution_time'] = d
        c = predictions.to_html(header="true",  table_id="table" )



        #https://stackoverflow.com/questions/39831894/json2html-python-json-data-not-converted-to-html#
answer-39832966
        return (predictions.to_html(header="true",  table_id="table" ))


    return  flask.render_template('index.html', message=' Upload file')
if __name__ == '__main__':
    app.run(host='0.0.0.0', port=8080)
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In [ ]:
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