Group Project #2

**Members:**

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**Proposal:**

Gas prices and oil barrel prices in historical events and over a time of 17 years

**Purpose:**

We are exploring the relationship between gas and oil barrel prices and various historical events over a time of 18 years. It has been speculated that certain historical events have some effect on the rise and fall of gas and oil barrel prices. This project is intended to show those relationships and prove or disprove whether they are significantly related or not.

**Data retrieval:** csv, json, api

**Data storage:** mongoDB

**Restrictions:**

Time periods will be limited to specific historical events.

Iraq War: Mar 20, 2003 – Dec 15, 2011

Main time period: 1/1/2003 – 5/31/2021

**Visualization ideas:**

* One chart displaying the main time period.
* A drop down to select the Iraq War chart.
* Have a page with an html table.
* Main chart to include a slider and highlighted pointer to see specific prices for a time period.

**Visualization Inspirations:**

Diagram

Description automatically generated Chart, line chart

Description automatically generated

Chart, line chart

Description automatically generated

**Initial Project Sketch:**

Diagram

Description automatically generated

**Sources:**

<https://www.eia.gov/dnav/pet/pet_pri_gnd_dcus_nus_m.htm>

<http://thedailyviz.com/2012/03/17/visualizing-gas-prices-by-state-income-and-time/>

<https://www.statista.com/statistics/204740/retail-price-of-gasoline-in-the-united-states-since-1990/>

<http://www.mygasfeed.com/keys/api>

<https://data.world/eia-wind/us-retail-gasoline-prices>

<https://www.quandl.com/api/v3/datasets/OPEC/ORB.json>

<https://data.bls.gov/timeseries/APU000074714>