

K.RAMAKRISHNAN COLLEGE OF ENGINEERING



(AUTONOMOUS)

FUEL PRIZE MONITORING AND ANALYSIS TOOL

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Date of Review: 20/06/2024



PRESENTATION OVERVIEW



- > Objective
- > System Architecture(Flow Diagram)
- > Modules
- > CodeTantra Implementation Screenshot
- > Future Scope
- **Conclusion**
- > Referrnce



OBJECTIVE OF THE PROJECT



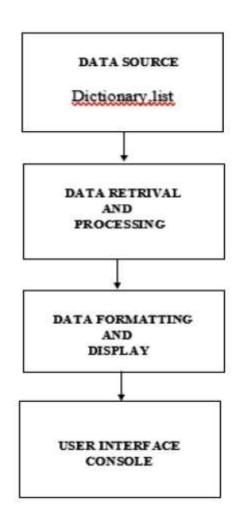
OBJECTIVE:

The objective of the Petrol Price Monitoring and Analysis Tool is to provide real-time monitoring and analysis of petrol prices, enabling users to track trends, make informed decisions, and understand factors influencing price fluctuations.











MODULES



- **1.USER INTERFACE:** The User Interface (UI) module handles user interactions, taking input from the user and displaying the output.
- **2.DATA COLLETION:** This module will be responsible for collecting and updating the fuel prices.
- **3. DATA PROCESSING:** This module will process the fetched data if needed. It can include functions to format or validate the data before displaying it.
- **4. DISPLAY THE RESULT:** The Display the result module is responsible for formatting and displaying the today's and yesterday's fuel prices



PROGRAM

CodeTantra Implementation Screenshot



```
C DETANTKA Whome Learn Anywhere
      __def get_fuel_prices_from_user():
      print("Enter fuel prices (separate by space):")
      --- prices_input = input().strip().split()
       # Assuming input format is fuel name price fuel name price ...
      --- prices = {}
      ....for i in range(0, len(prices_input), 2):
      fuel_name = prices_input[i]
      were try:
      ------price = float(prices_input[i +-1])
      -----prices[fuel_name] = price
      ____except ValueError:
      print(f"Invalid price for {fuel_name}: {prices_input[i + 1]}. Skipping this fuel.")
       ----return-prices
 16
      def analyze_prices(prices):
      v --- if not prices:
      ------print("No-valid-prices-provided.")
      ----return
      ---- max_price_fuel = max(prices, key=prices.get)
      ....min price fuel = min(prices, key=prices.get)
       ----average_price-=-sum(prices.values())-/-len(prices)
      ---- print("Fuel Price Analysis:")
      ....print("-----")
      --- print(f"Max Price Fuel: {max_price_fuel} -- Price: {prices[max_price_fuel]}")
      --- print(f"Min Price Fuel: {min_price_fuel} -- Price: {prices[min_price_fuel]}")
       ----print(f"Average Price: {average_price}")
 32 __def main():
      ----fuel_prices = get_fuel_prices_from_user()
      --- analyze_prices(fuel_prices)
 35
      ___if-__name__ == "__main__":
      main()
   Terminal Test cases
```



CodeTantra Implementation Screenshot



OUTPUT

```
Enter fuel prices (separate by space):
Gasoline 3.50 Diesel 3.20 Electric 0.12
```

```
Fuel Price Analysis:
------
Max Price Fuel: Gasoline - Price: 3.5
Min Price Fuel: Electric - Price: 0.12
Average Price: 2.2733333333333333
```

Future Scope:

- A fuel management system is designed to monitor, control, and optimize the use of fuel in various applications.
- It tracks fuel use, detects leaks or theft, and provides information to improve efficiency.

Conclusion:

• As the landscape evolves, Fuel Price Monitoring and Analysis Tools will play a crucial role in navigating the complexities of fuel economics, driving efficiency, and promoting sustainability in the energy sector.

Reference:

• Fluent Python: Clear, Concise, and Effective Programming by Luciano Ramalho

• www.geeksforgreeks.org

