

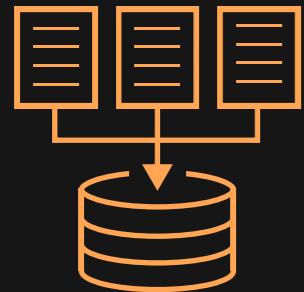
# GAS PRICE tracker



ForeverAloneGroup (by Yevheniia Suvorova, group Java 34\_01)



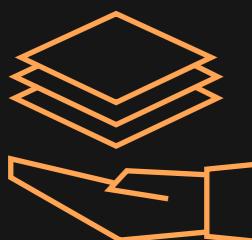
# business idea



Collects data from various websites



Stores data in database



Gives data to the user

Introducing the Gas Price Tracker - an innovative application that simplifies the process of finding the best gas prices in your area. This powerful tool allows you to easily collect and store information about gas prices from various websites and presents it to you on demand.

With the Gas Price Tracker, you no longer have to waste time visiting multiple websites or driving around to find the cheapest gas prices.

# work plan

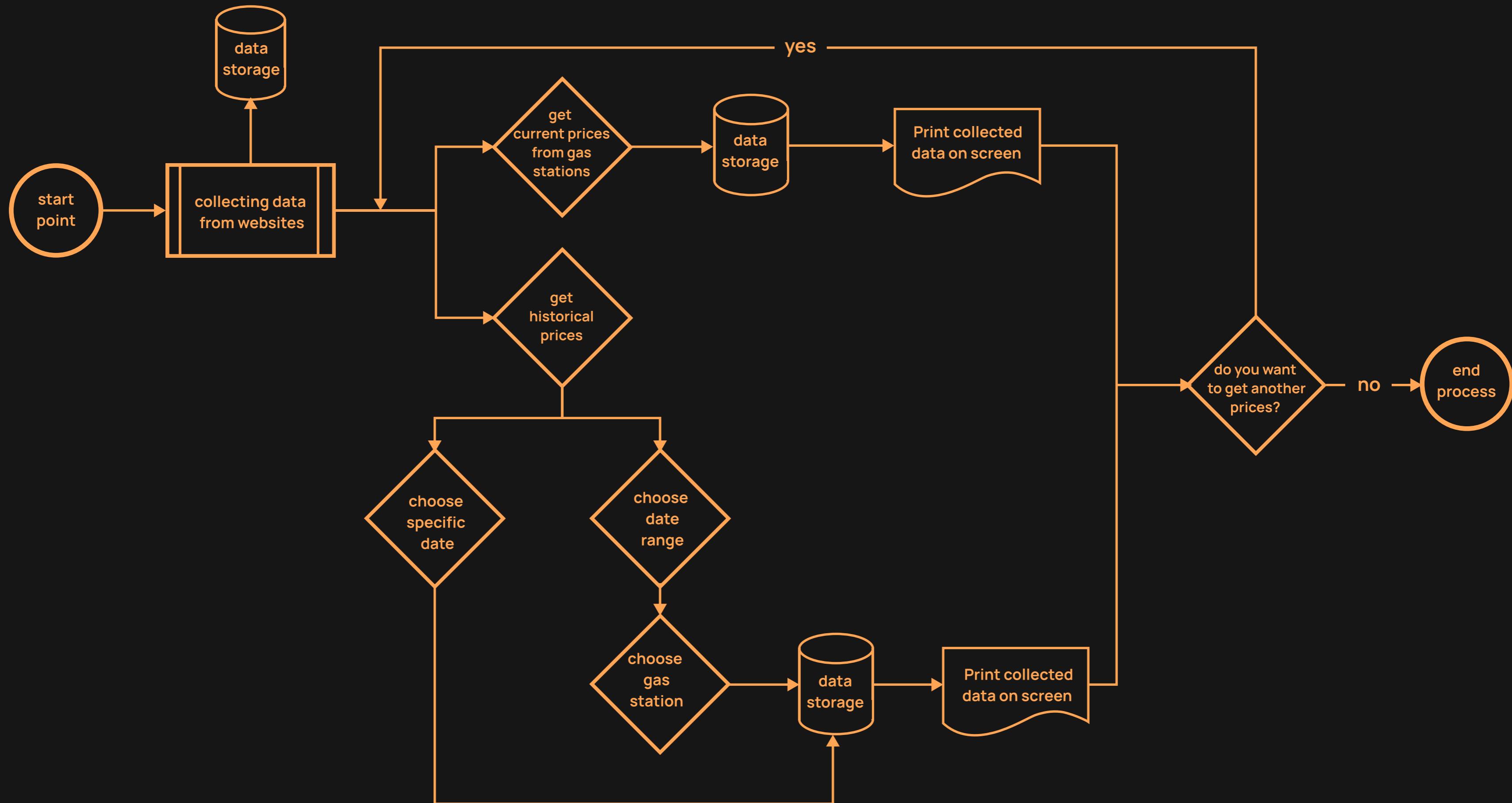
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- 25.01     Define project theme  
             Develop application workflow  
             Define Database structure
  
- 27.01     Write 4 Java Classes relevant to  
             chosen gas station websites
  
- 30.01     Write Main class  
             Create and write SQL file  
             Write “Connection to Database”  
             class
  
- 01.02     Final testing  
             Creating presentation

WHATEVER  
IT  
TAKES

# application workflow

Lines of code written: ~800



# database structure

## fuel prices

	variable type
id (primary key)	int (auto increment)
fuel_95_price	decimal
fuel_98_price	decimal
fuel_diesel_price	decimal
fuel_lpg_price	decimal
gas_station	varchar
date_time	datetime



# errors and bugs fixing



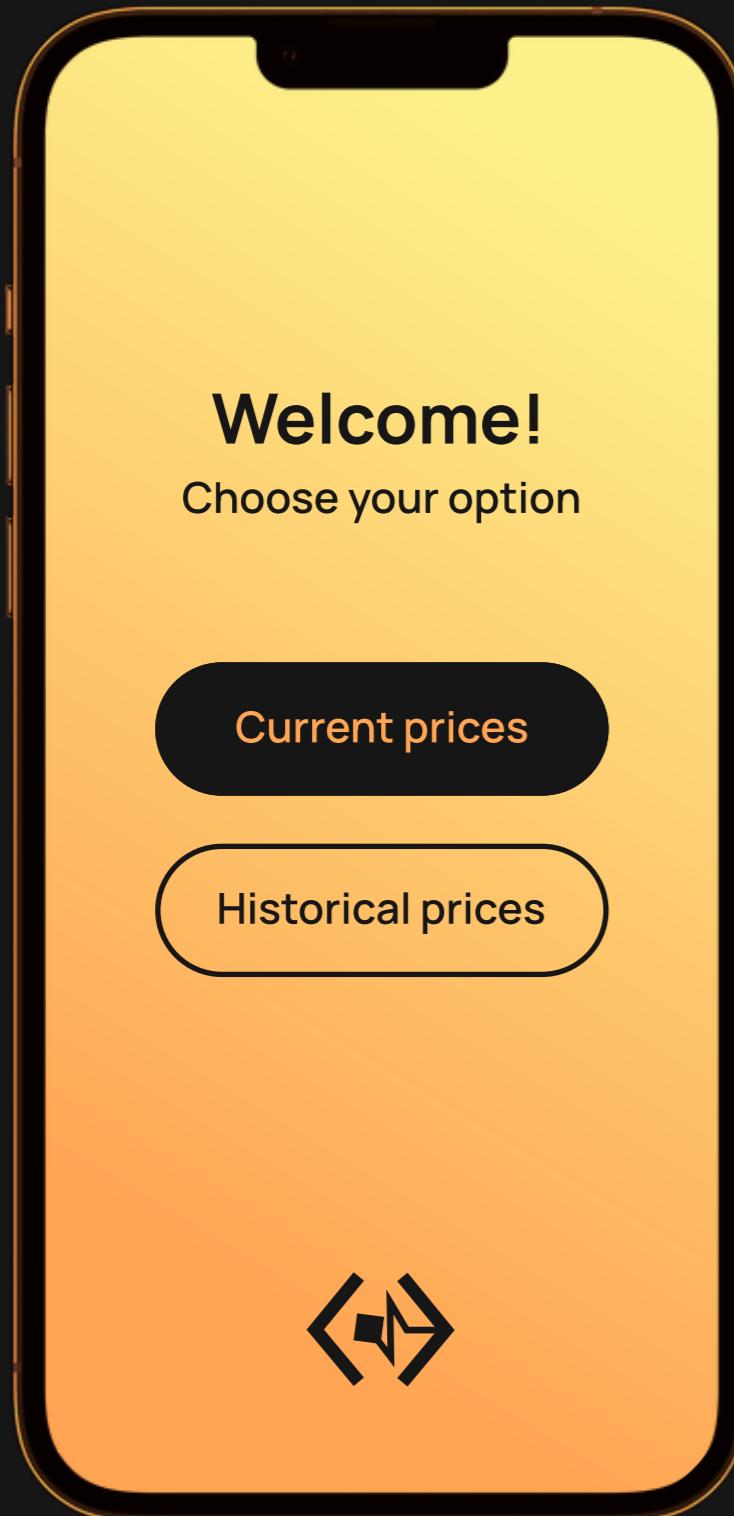
## Struggle

1. Impossibility to scrape (get data) “Kool” gas station website due to javascript heavy sites.
2. Some values needed cleaning because of additional characters collected from websites, such as “€” sign and the word “EUR” itself.
3. One gas station website (Viada) had problems with SSL certificate in Java, so it was impossible to retrieve data from it .

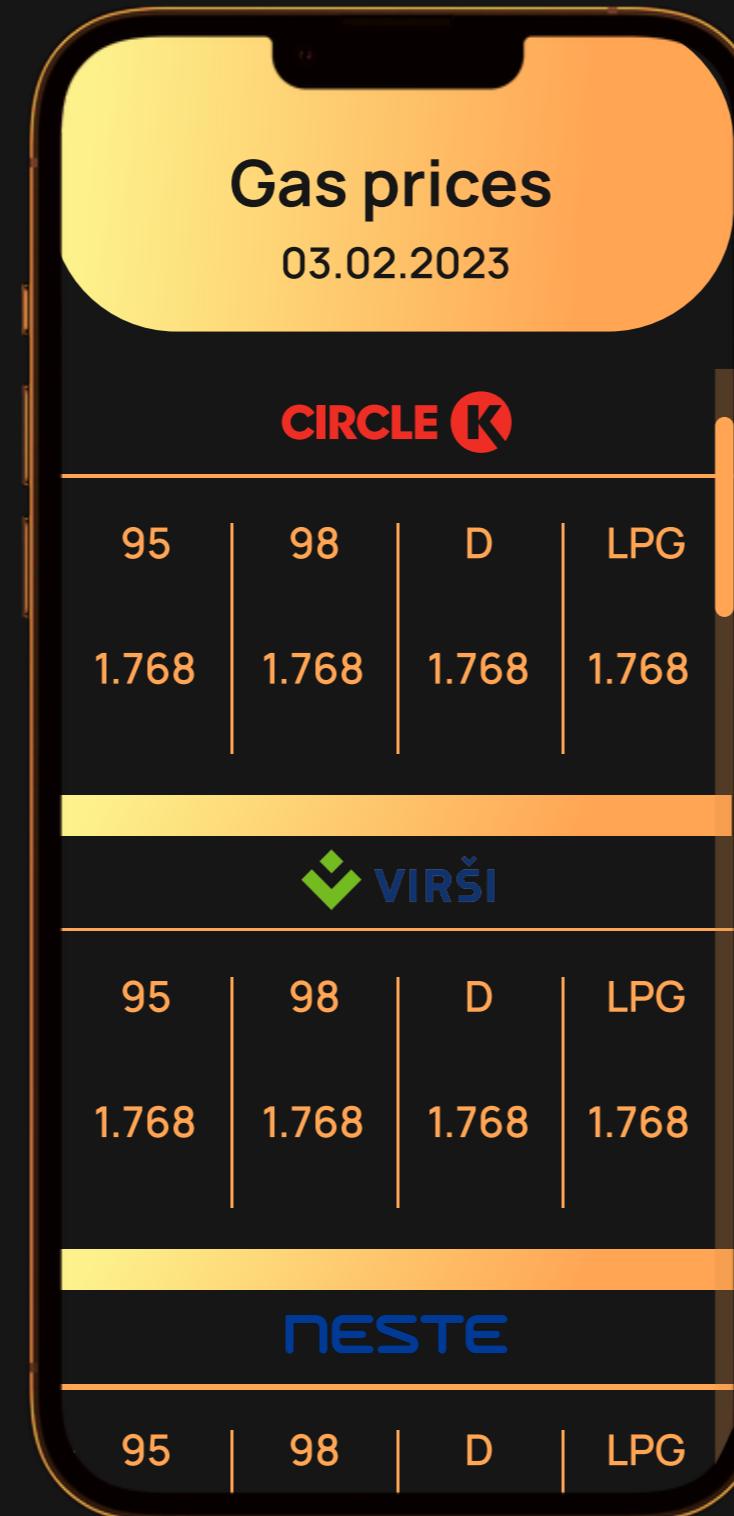
## Decision

1. Didn’t use this gas station website.
2. Used `replaceAll()` method to replace characters with “”.
3. Chose another website instead of using a difficult solution.

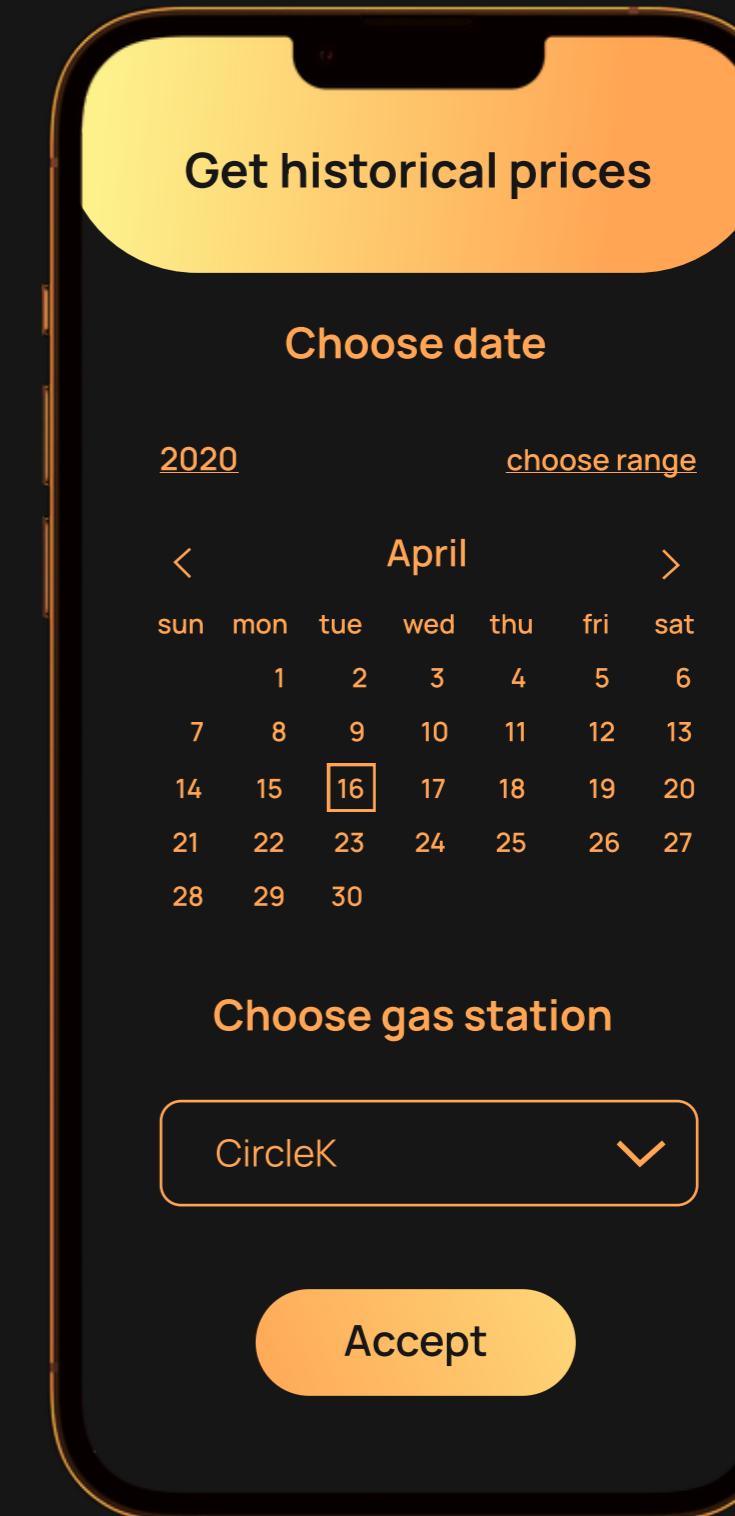
# layouts



Welcome screen



Current price



Historical prices