

Outline

Project Objective & Project phases Project interface Project realization Cost / benefit analysis

Project phases

Project Objective & Rationale

Project environment - company

- Founded in Augsburg in the 19th century
- Approx. 1000 employees
- Largest manufacturer of web offset presses
- Merger with Goss International 2018 → Market monopoly
- **3000** printers in operation worldwide





Project Objective & Rationale

Objective:

- Python based web application
- Visualization of data & prices
- Easy finding of cheap fuel
- Navigation to the gas station
- Promotion of economical consumer behavior

Justification:

Project

environment

Project Objective &

Rationale

Passing the driver's license & receiving a car

Project

- Rising fuel prices (prices over 2€/L)
- Inflation and energy crisis
- Curiosity about the subject
- Interesting data



Project phases

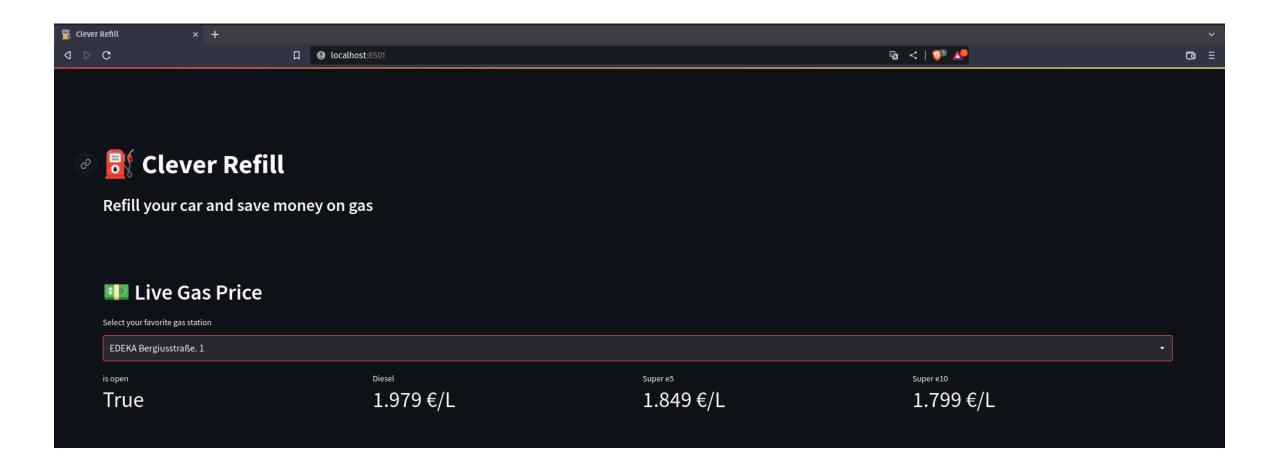
Project Objective & Rationale

Project environment

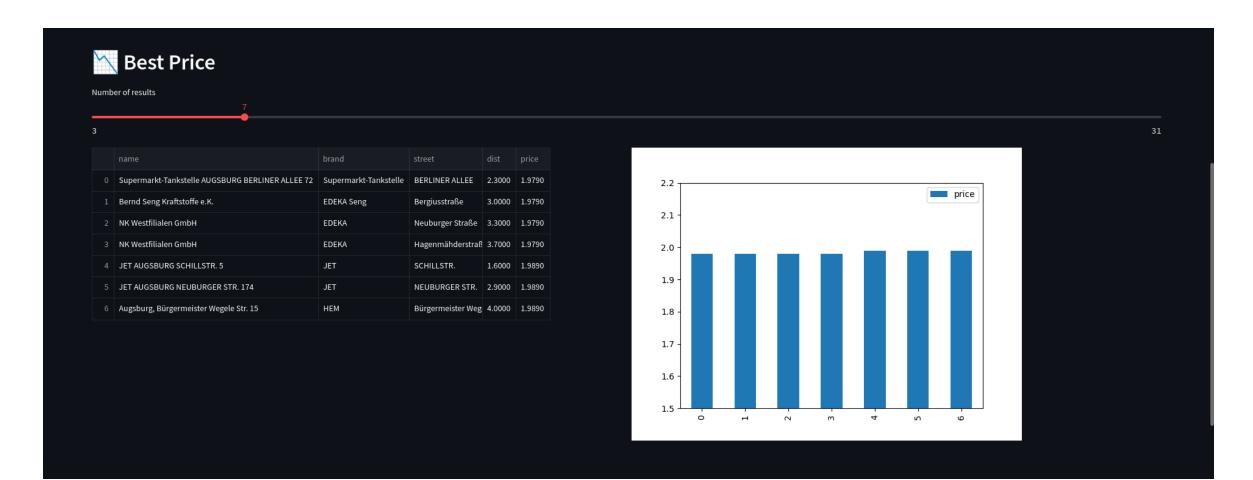
Project phases

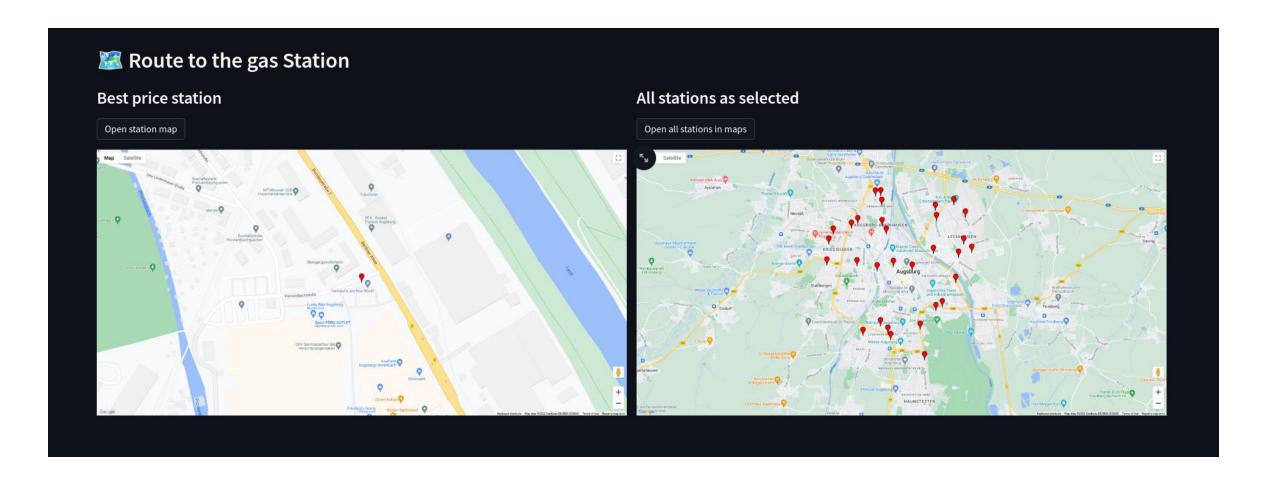
Project phases	Planned time in hours
Analysis phase	2
Design phase	4
Implementation phase	4
Test phase and troubleshooting	2
Preparation of the documentation	7
Creation of the presentation	2
Total	21 h

User Interface - Part 1 Header & Live Price





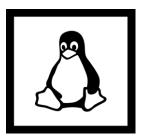




Project phases



- Object-oriented programming language
- Many libraries



- Pop!_OS 21.0
- Based on Ubuntu
- GNU + Linux



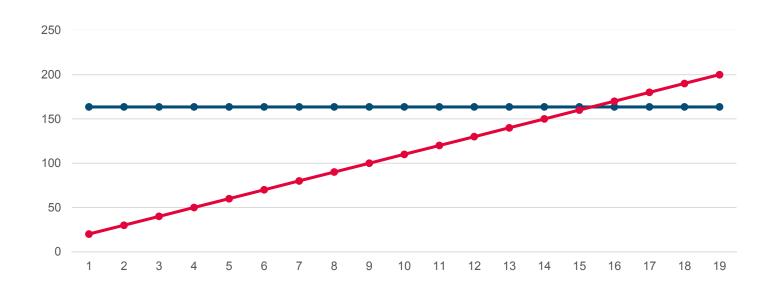
- Streamlit
- Pandas, Numpy
- matplotlib, gmplot
- **JSON**

Programming & Dev

Operating system

UI Framework & Libraries

Cost/benefit analysis



- Period: **12h**

Trainee hourly rate: 7,77€/h

- Total cost: **162**,**53€**

- Savings per L: **0,20ct**

Savings per tank load: 10€

Refueling period: 1 time per month

- Payback period: **16 months**



