Walk2Zero

CLIMATE CONSCIOUS STEPS

CFG Software Engineering: Group Project

Team Members

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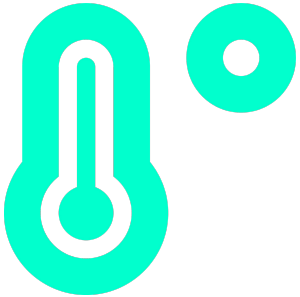
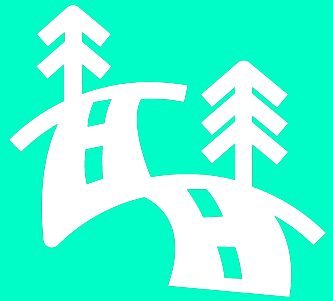
Climate Change



- **1.1°C increase** since 1850 due to human activity
  (IPCC AR6 WGI, 2021)
- transport sector now largest emitter of GHG in UK
  (Department for Transport, 2021)

Our Solution



- journey planning app
- calculates GHG emissions by transport type

Key Features:

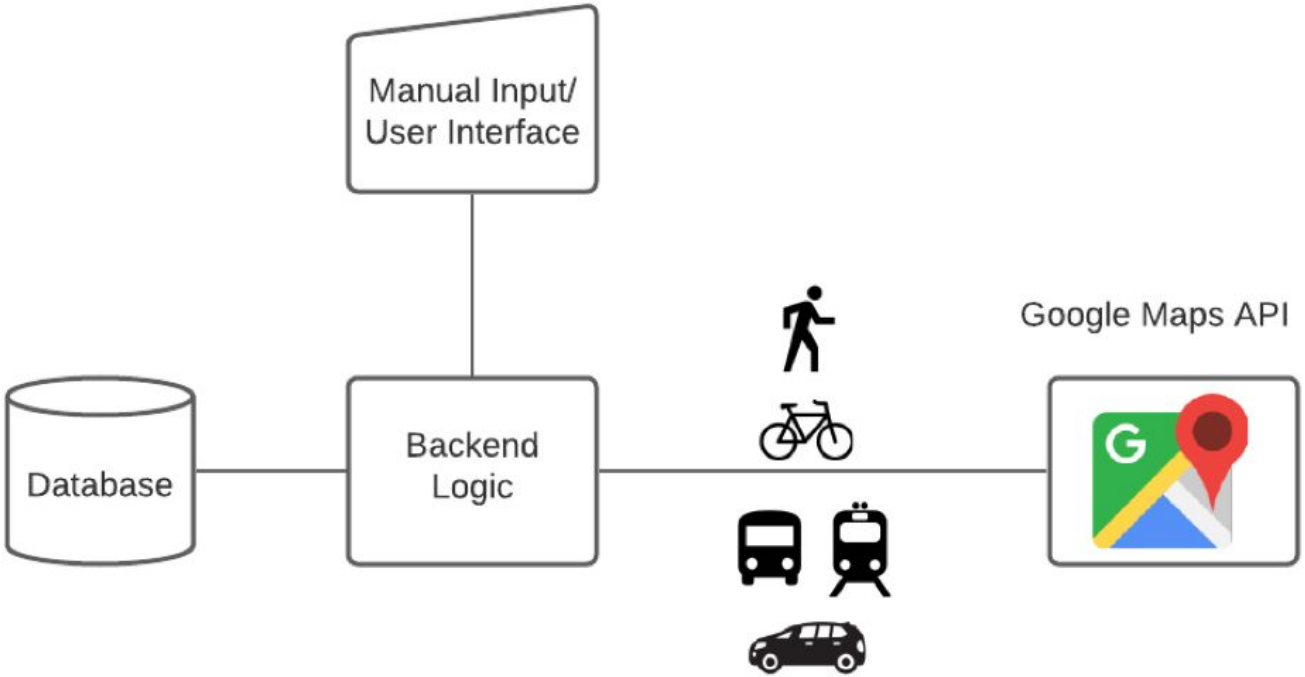
User Registration / Log in

Plan a Journey

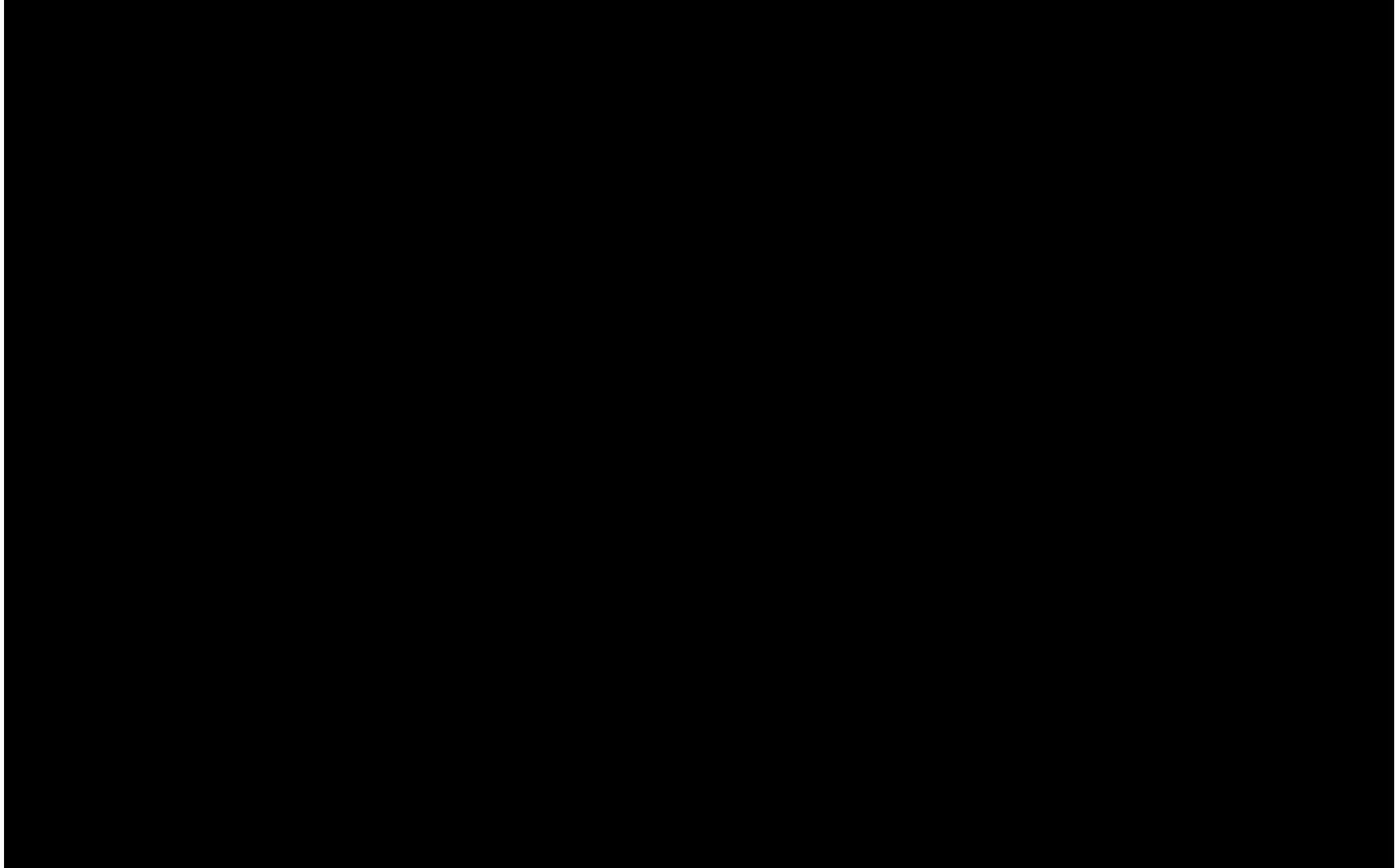
Emission Offset

Represent with Trees

Service Architecture:



Demo



System Limitations:

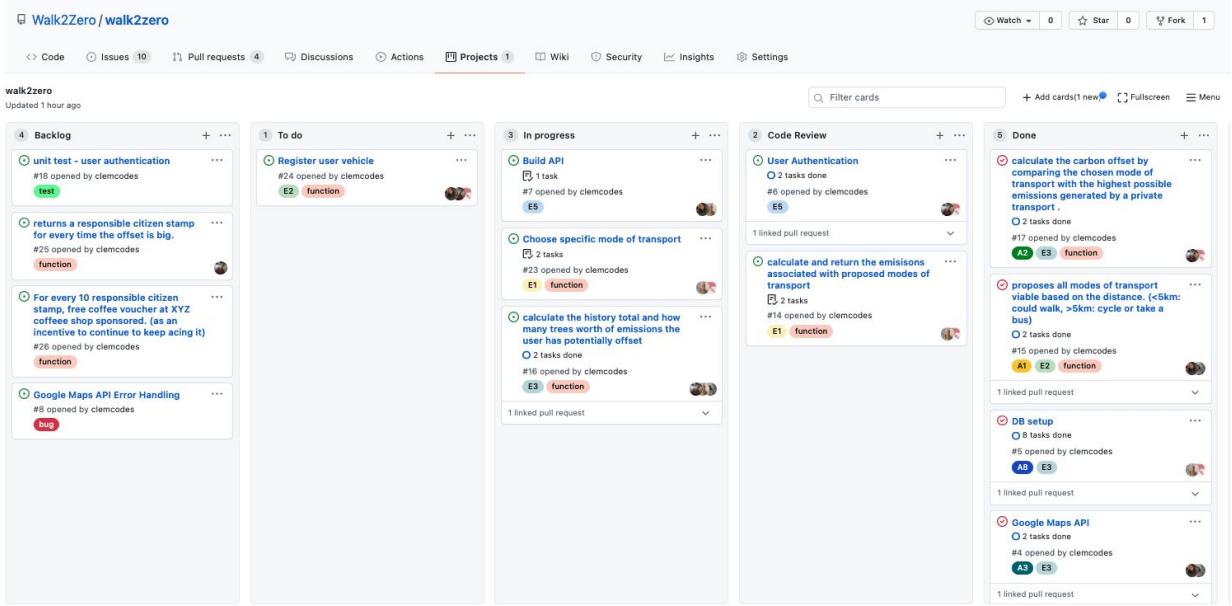
- command-line app
- average transport emissions
- doesn’t break down transit
- doesn’t map route

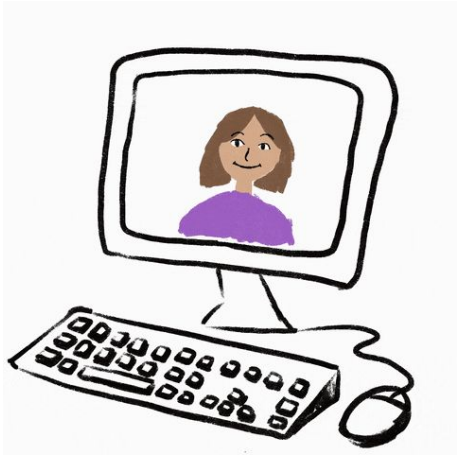
Working Together as a Team

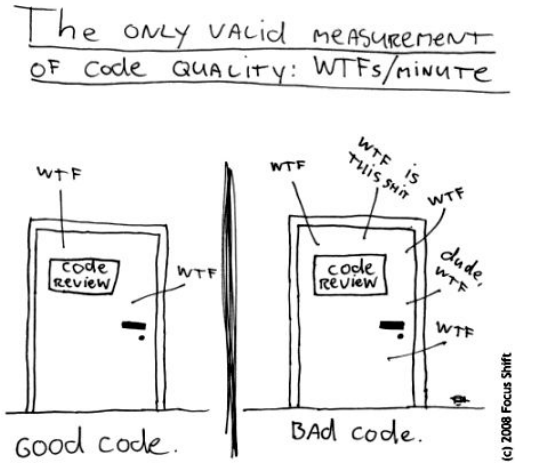
-Kanban Board on Git to maintain requirements backlog

- Plenty code reviews over Slack and Google Meets

- Lots of motivation, proactiveness and consideration for each other

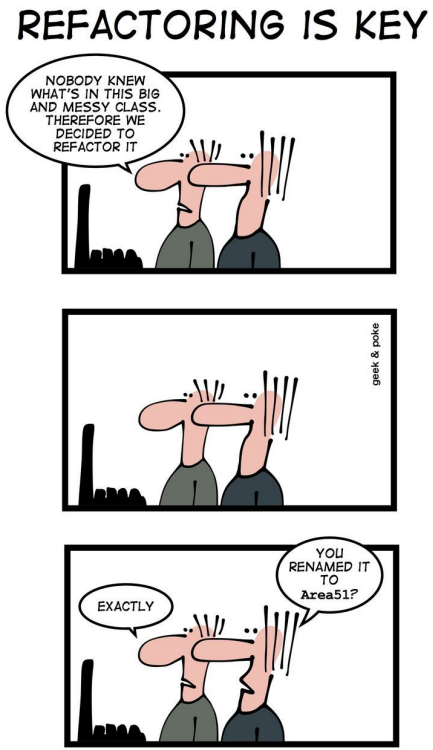






(Some)Challenges

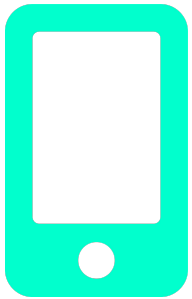
- Initial Git collaboration
- Functions to OOP Architecture
- Building as we were going: adhoc changes
- Time constraint



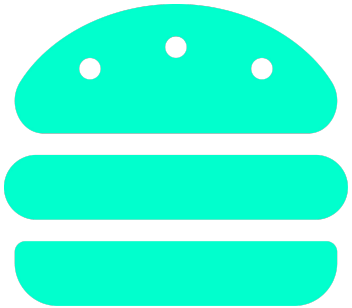
#SOLIDftw

Future development:

Sophisticated GUI



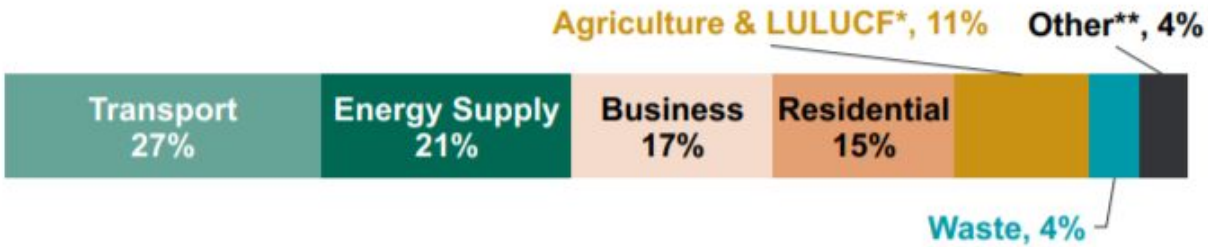
Calories Burnt



Badges and Competitions

Conclusion & Motto:

Figure 3: Greenhouse gas emissions by sector, 2019, by proportion (BEIS, 2021)



- Road transport- 5th place
- User-climate friendly transport
- Motivate towards climate goals

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THANK YOU FOR LISTENING!