### The Green Thumb

Group 22, Presentation 15/04/2019, CSE

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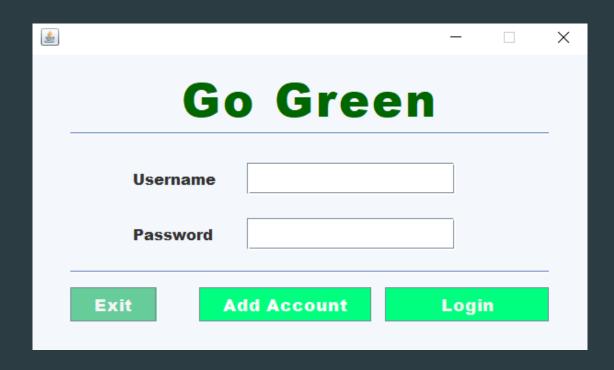
#### The concept

- Designing for effectiveness and environmental-mindfulness
- Giving the user a clear overview of their CO2 emissions
- Making it easy to use
- Giving the user the ability to add friends and see their results as well

#### The login

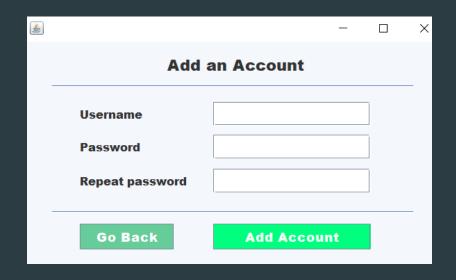
The login screen consists of two different parts, namely the main screen and the add account screen

#### The login



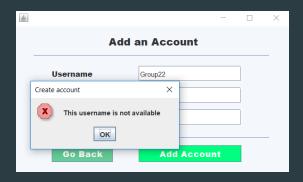
The main log in screen consists of two text fields, an exit button, an add account button and the login button

#### Add an Account

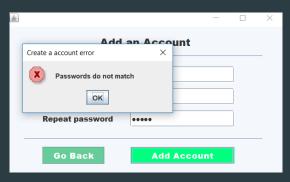


- The information is checked for a unique username and whether the user inputted the same password as the username
- The password is checked to be the same both times

#### Add an Account





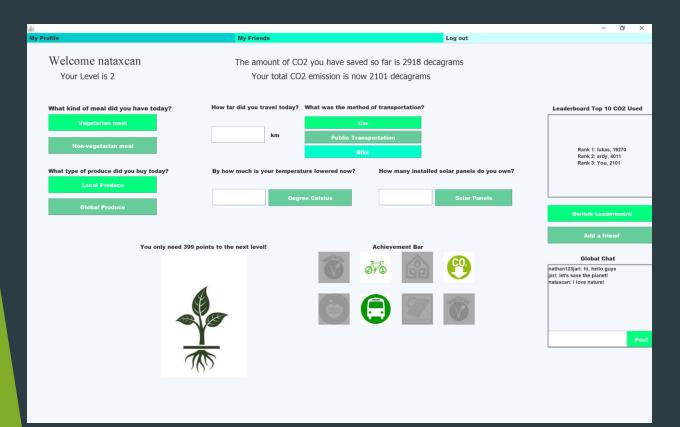


Violating these terms will lead to an error pop-up

### The GUI main screen

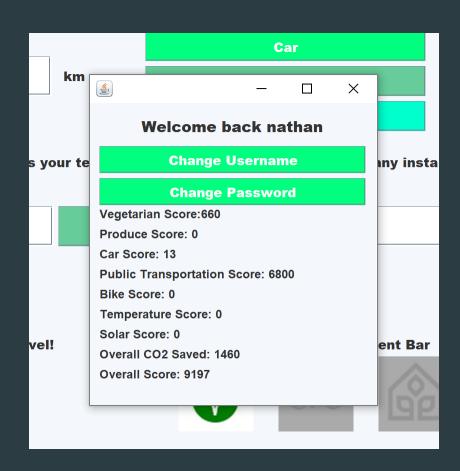
- Main screen
- My profile
- My friends
- Leaderboard
- Add a friend
- Features and point system

#### Main screen



- Each feature awards a different amount of points, depending on their real-life CO2 emissions
- Every 1000 points your level will increase

#### My profile



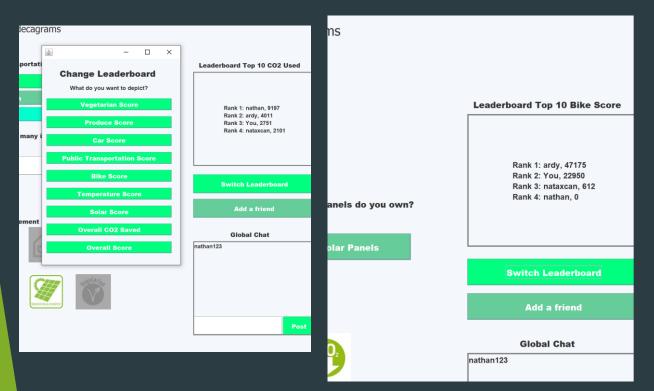
- The user can change their username and their password
- The user receives a detailed overview of how much they are saving and using

#### My friends



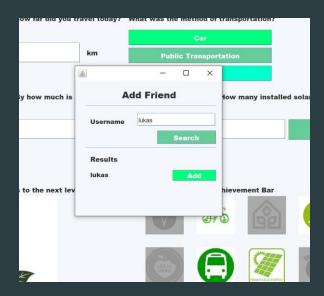
Opens a pop-up with a list of all the users friends

#### The leaderboard



 The user can choose a category on which the leaderboard is ordered

#### Add a friend





The user can search for another user, the results give the three usernames that have the most in common with the given search.

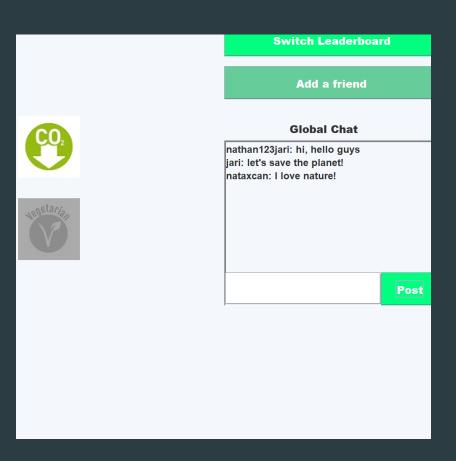
#### The features



Each feature consumes and saves a set amount of points.

The amount of CO2 you have saved so far is 2918 decagrams Your total CO2 emission is now 2101 decagrams

#### The bonus feature

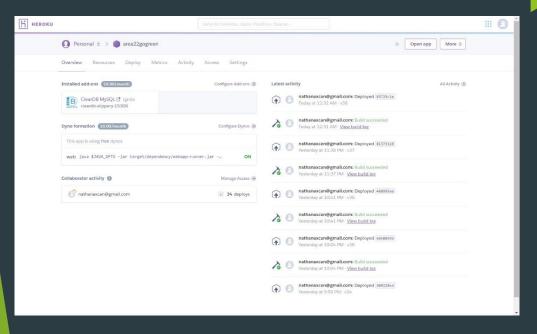


\*The Chat\*

#### The server

- We made use of the SPRING framework to create our server
- ► The server and client communicate via JSON
- ► The server is running via TomCat

#### Heroku



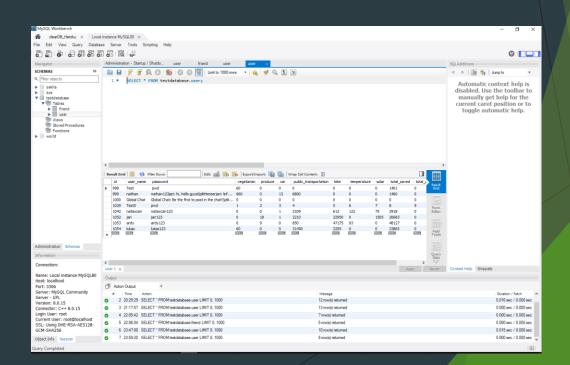
 Gitlab automatically deploys to a Heroku app, which connects to a ClearDB MySQL instance.

#### The database

## Table: user Columns: id int(11) AI PK user\_name varchar(45) password varchar(45) vegetarian int(11) produce int(11) car int(11) public\_transportation bike int(11) temperature int(11) solar int(11) total\_saved int(11) total\_used int(11) total int(11)

# Table: friend Columns: id int(11) AI PK user\_name\_entry varchar(45) friend\_name varchar(45)

- We are using a MySQL database
- Our database contains two tables, user and friends



#### Libraries/tools

- The SPRING Framework
- TomCat Server
- Swing elements

#### Team process

- During the project we have noticeably grown in our usage of Git and our teamwork
- While all work was always satisfactory, the level of code that we wanted to produce definitely increased during the project, especially the final weeks