

The Green Thumb

Group 22, Mock Presentation 08/04/2019,CSE

The contents

- ▶ The concept
- ▶ The login
- ▶ The GUI main screen
- ▶ The features
- ▶ The server
- ▶ The database

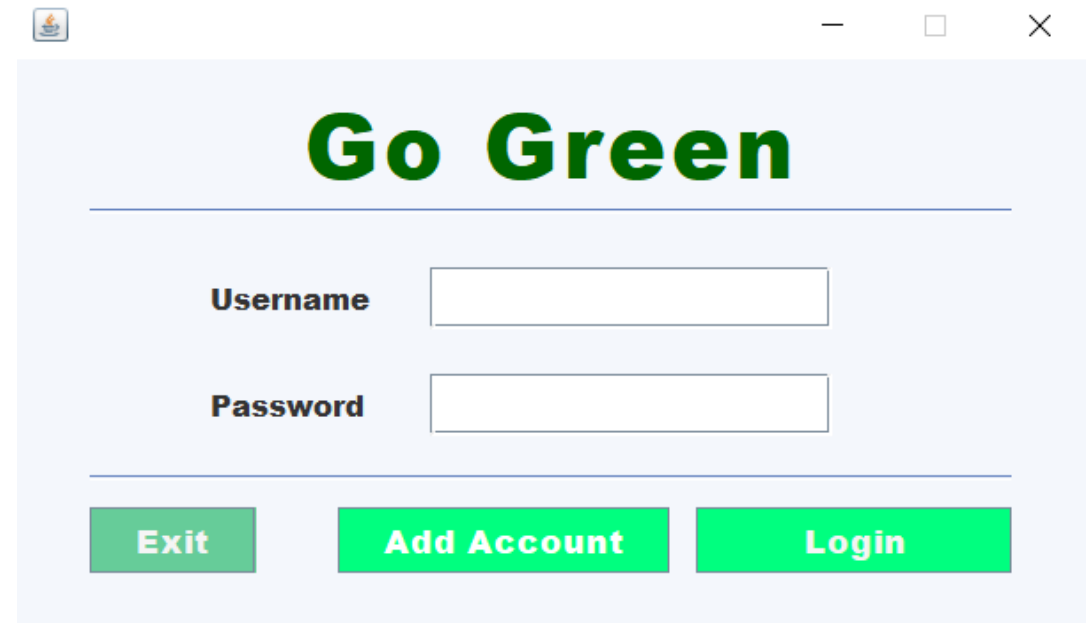
The concept

- ▶ 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 aswell

The login

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

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



The screenshot shows a web application window titled "Go Green". The window has a light blue header with the title "Go Green" in large, bold, green letters. Below the header, there are two text input fields: "Username" and "Password". The "Username" field is a simple white box with a thin border. The "Password" field is a white box with a thin border and a small eye icon on the right side to toggle visibility. Below the input fields, there are three buttons: "Exit" (a light green button with white text), "Add Account" (a bright green button with white text), and "Login" (a bright green button with white text). The window also features standard window controls (minimize, maximize, close) in the top right corner.

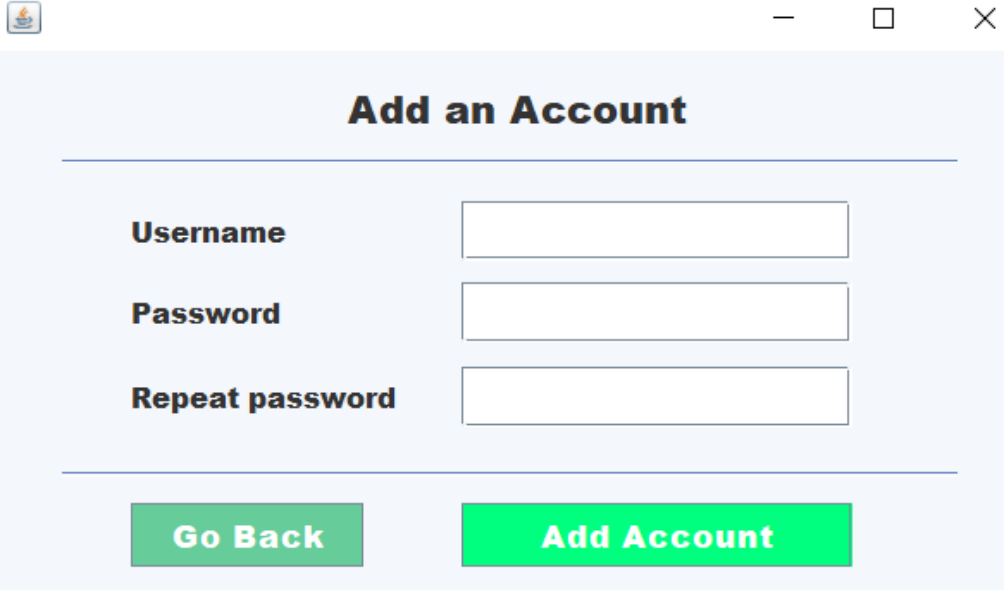
Go Green

Username

Password

Exit **Add Account** **Login**

- ▶ 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



The screenshot shows a web application window with a title bar containing a small icon, a minus sign, a square, and a close button. The main content area has a light blue background and is titled "Add an Account" in bold black text. Below the title, there are three input fields with labels to their left: "Username", "Password", and "Repeat password". Each label is in bold black text. The input fields are white with thin black borders. At the bottom of the form, there are two buttons: "Go Back" in a light green box and "Add Account" in a bright green box. Both buttons have white text.

Add an Account

Username

Password

Repeat password

Go Back **Add Account**

- ▶ Violating these terms will lead to an error pop-up

The image displays three sequential screenshots of a web application's 'Add an Account' form, each showing a different validation error. The form has a light blue background and includes fields for Username, Password, and Repeat password, along with 'Go Back' and 'Add Account' buttons.

Screenshot 1: The 'Repeat password' field is filled with dots. An error pop-up titled 'Create a account error' displays a red 'X' icon and the message 'Passwords cannot be the same as username'. The 'Add Account' button is highlighted in green.

Screenshot 2: The 'Repeat password' field is filled with dots. An error pop-up titled 'Create a account error' displays a red 'X' icon and the message 'Passwords do not match'. The 'Add Account' button is highlighted in green.

Screenshot 3: The 'Username' field is filled with 'Group22'. An error pop-up titled 'Create account' displays a red 'X' icon and the message 'This username is not available'. The 'Add Account' button is highlighted in green.

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

The screenshot shows a web application interface for tracking CO2 emissions. At the top, there is a navigation bar with three tabs: "My Profile", "My Friends", and "Log out". The main content area is titled "Welcome Group22". Below the title, there are two status indicators: "The amount of CO2 you have saved so far is 0" and "The total amount of CO2 you have used up so far is 0". In the center, it says "Your Level is 0".

The interface is divided into several sections for data entry and tracking:

- Meal Selection:** A section titled "What kind of meal did you have today?" with two buttons: "Vegetarian meal" (red) and "Non-vegetarian meal" (blue).
- Travel Distance:** A section titled "How far did you travel today ?" with a text input field and a "km" label.
- Transportation Method:** A section titled "What was the method of transportation?" with three buttons: "Car" (red), "Public Transportation" (blue), and "Bike" (green).
- Produce Type:** A section titled "What type of produce did you buy today?" with two buttons: "Local Produce" (red) and "Global Produce" (blue).
- Temperature Lowered:** A section titled "By how much is your temperature lowered now?" with a text input field and a "Degree Celsius" label.
- Solar Panels:** A section titled "How many installed solar panels do you own?" with a text input field and a "Solar Panels" label.
- Leaderboard:** A section titled "Leaderboard Top 10 CO2 Used" showing a list of users and their CO2 usage. The current user's rank is displayed as "Rank 1: You, 0". Below the list are two buttons: "Switch Leaderboard" (red) and "Add a friend" (blue).

At the bottom of the page, a message states: "You only need 0 points to the next level!"

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

Welcome Group22

saved so far is 1678

The total amount of

Your Level is 2

How far did you travel today ?

km

What was the method of transportation?

Car

Public Transportation

Bike

By how much is your tem

Solar Panels

points to the next level!

Welcome back Group22

Change Username

Change Password

Vegetarian Score:180

Produce Score: 18

Car Score: 0

Public Transportation Score: 200

Bike Score: 500

Temperature Score: 100

Solar Score: 500

Overall CO2 Saved: 1678

Overall Score: 2340

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

My Friends Log out

Welcome Group22

d so far is 1678 The total amo

Your Level is 2

How far did you travel today ?

What was the method of transpor

Car

Public Transportation

Bike

By how much is your

many installed solar panels

Solar P

ts to the next level!

Add Friend

Username

Search

Results

Leaderboard Top 10 CO2 Used

Rank 1: InnocentBystander, 3167

Rank 2: You, 2340

Welcome Group22

The total amount of CO2 you have used up so far is 2340

Your Level is 2

vel today ?

What was the method of transportation?

Car

Public Transportation

Bike

ur

many installed solar panels do you own?

Solar Panels

Add Friend

Username

Search

Results

InnocentBystander Add

Leaderboard Top 10 CO2 Used

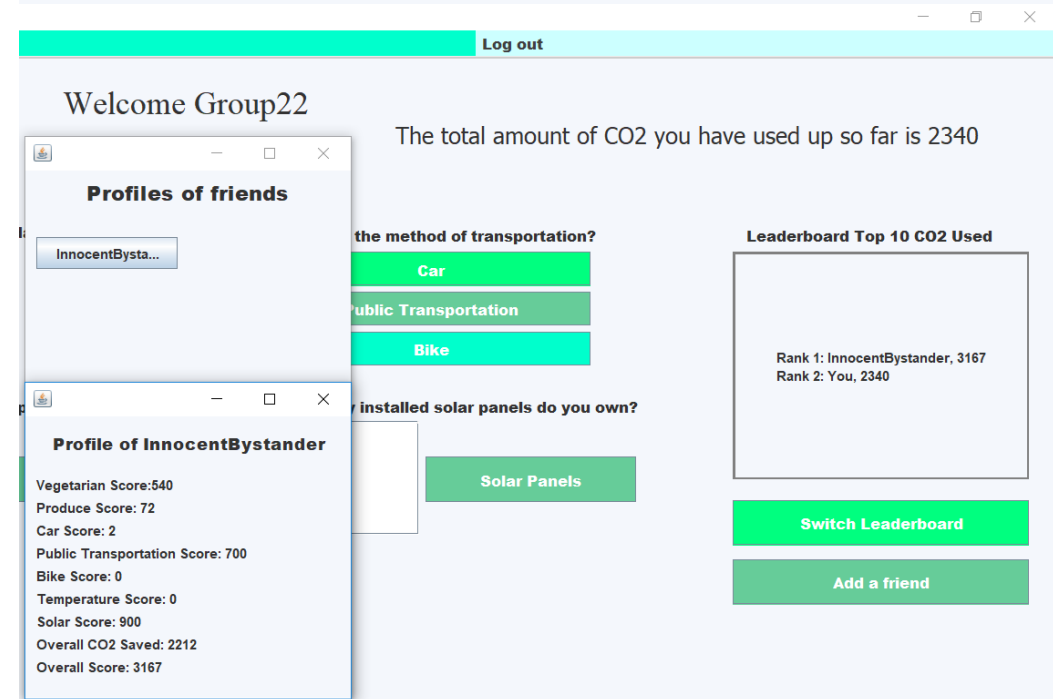
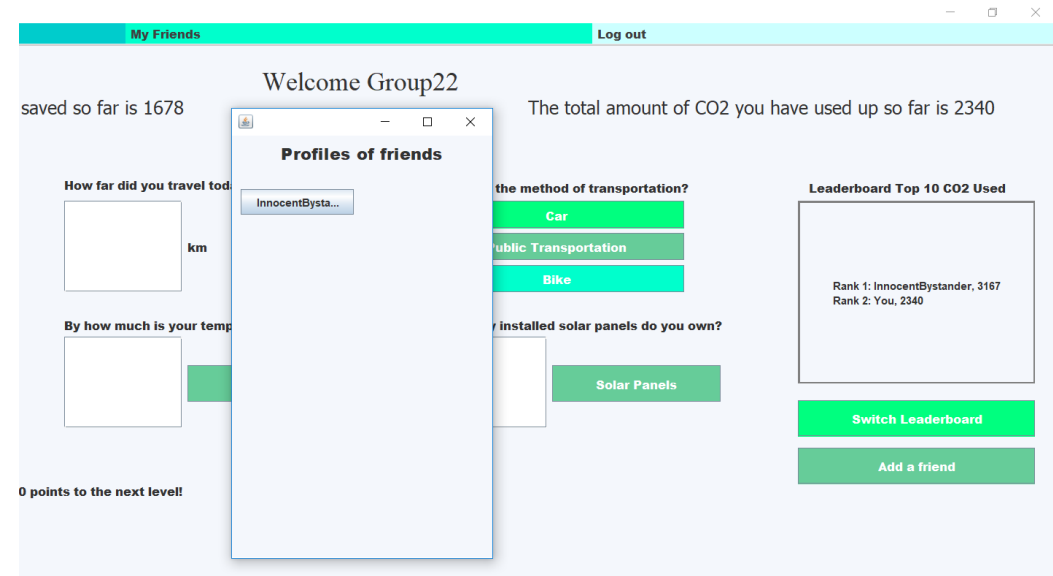
Rank 1: You, 2340

Switch Leaderboard

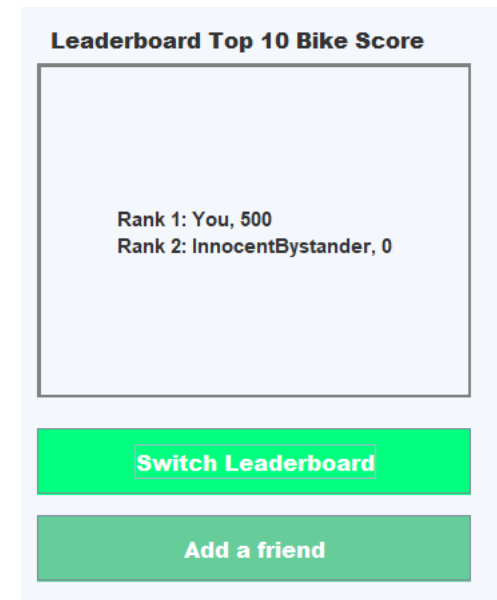
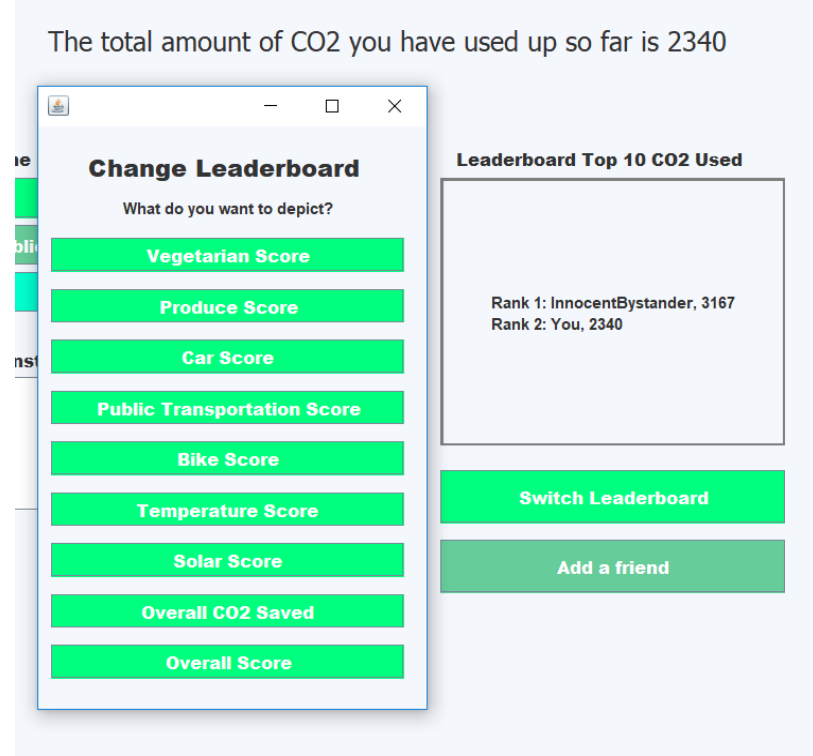
Add a friend

My friends

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



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



The features

- Each feature consumes and saves a set amount of points.

What kind of meal did you have today?

Vegetarian meal

Non-vegetarian meal

What type of produce did you buy today?

Local Produce

Global Produce

How far did you travel today ?

km

By how much is your temperature lowered now?

Degree Celsius

What was the method of transportation?

Car

Public Transportation

Bike

How many installed solar panels do you own?

Solar Panels

Welcome Group22

The amount of CO2 you have saved so far is 1678

Your Level is 2

The total amount of CO2 you have used up so far is 2340

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

The database

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

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	int(11)
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)