



FOOTPRINT

Campus Carbon Challenge

STACK OVERFLOWED

Armin, Ben, Davi, Jai, Madi, Marko, Phoebe, Zarreen

Content

- 01 Objectives
- 02 Users
- 03 Design
- 04 Implementation
- 05 Demo
- 06 Evaluation
- 07 Future Goals



PROBLEM

Problem 01
Carbon dioxide emissions

Problem 02
Spending

Problem 03
Hard to track micro changes



OBJECTIVES

Objective 01
Log micro changes and
utilise data for analysis.

Objective 02
Reduce carbon emissions

Objective 03
Create a fun way to
introduce sustainability.

Target Audience

STUDENTS



*Different campuses
Different years
Different departments*

STAFF



*All administrative and non-administrative
staffs from all the campuses*

GOAL - UNIVERSITIES



*We are envisioning to take this to a
greater scale and collaborate with other
universities and institutions*

DESIGN

The design was made with these aspects in mind.

01



USER-FRIENDLY

ACCESSIBILITY



02

03



ASSOCIATION

AESTHETIC



04

University Colours

FOOTPRINT

Logout

Tasks

Profile

Leaderboards

Groups

Analytics

Settings

Daily Tasks:

- Walk to campus +500 v
- Eat a vegetarian meal +300

Upload a photo of your vegetarian meal!

Upload Photo

Weekly Tasks:

Monthly Challenges:

Fun Fact : You have saved 10 tonnes of carbon emissions!

Made with love by Stack Overflowed

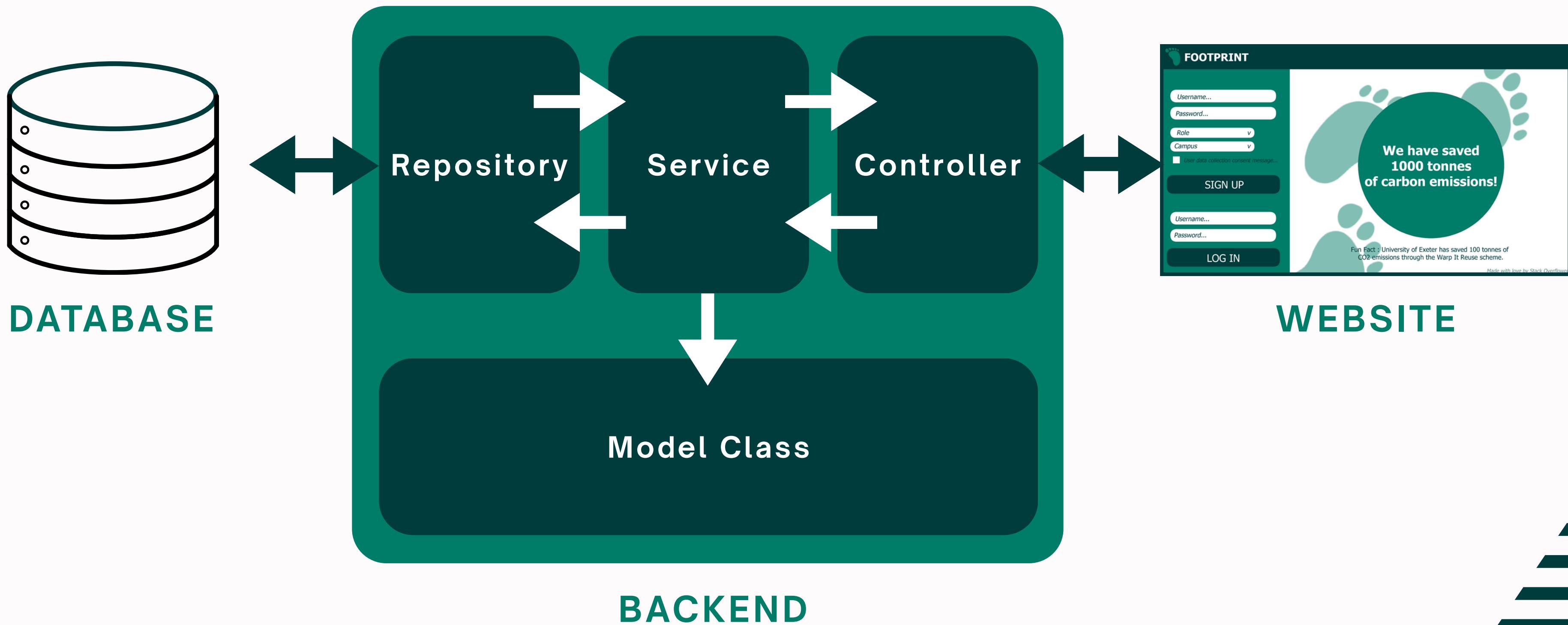
1 Navigation Tab

2 Dyslexic-friendly font
(White text in prototype)

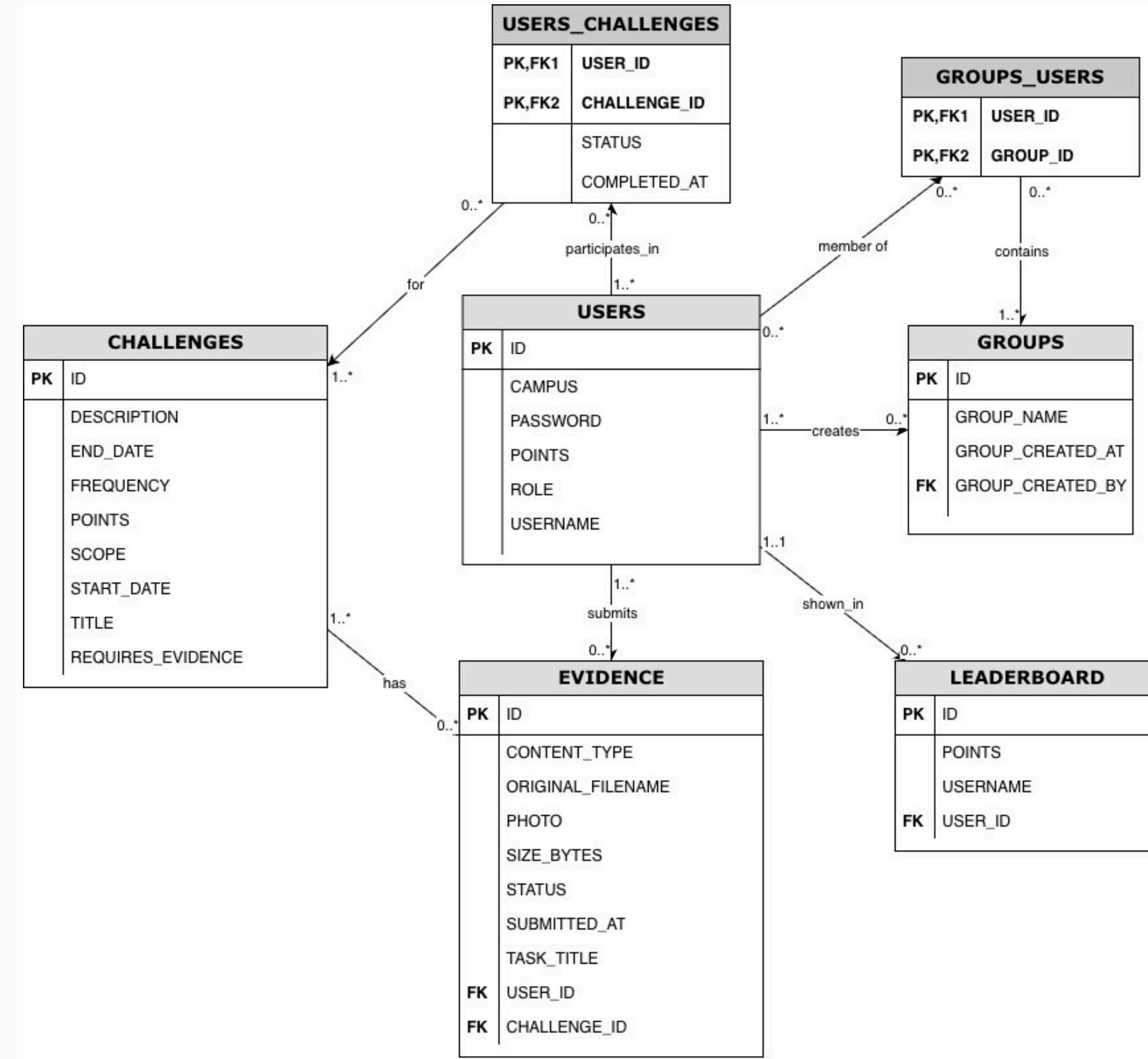
3 University Colours

4 Clean and approachable layout

IMPLEMENTATION



DATABASE



LIVE DEMO



EVALUATION

Identifying the testing techniques used.

Unit Testing

- Mockito
- Java Reflection

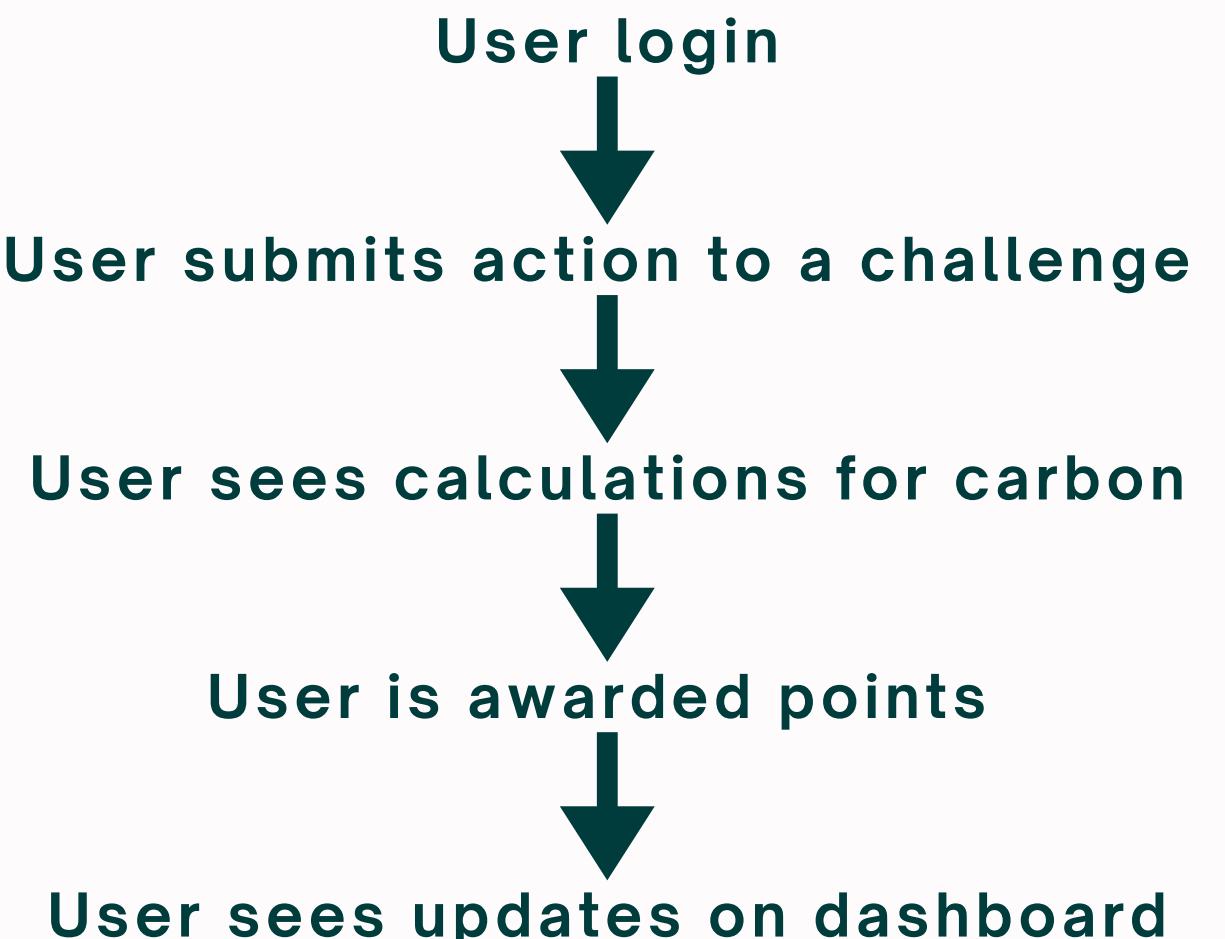
Integration Testing

- DataJpaTest

End-to-End Testing

- Focuses on the main core functionality
 - Login, submit, approve, verify.

Vertical slice



Assumptions & Future goals

01

With the Carbon emission calculation we set some sensible assumptions so it can be more easily calculated without taking too much data from users.

02

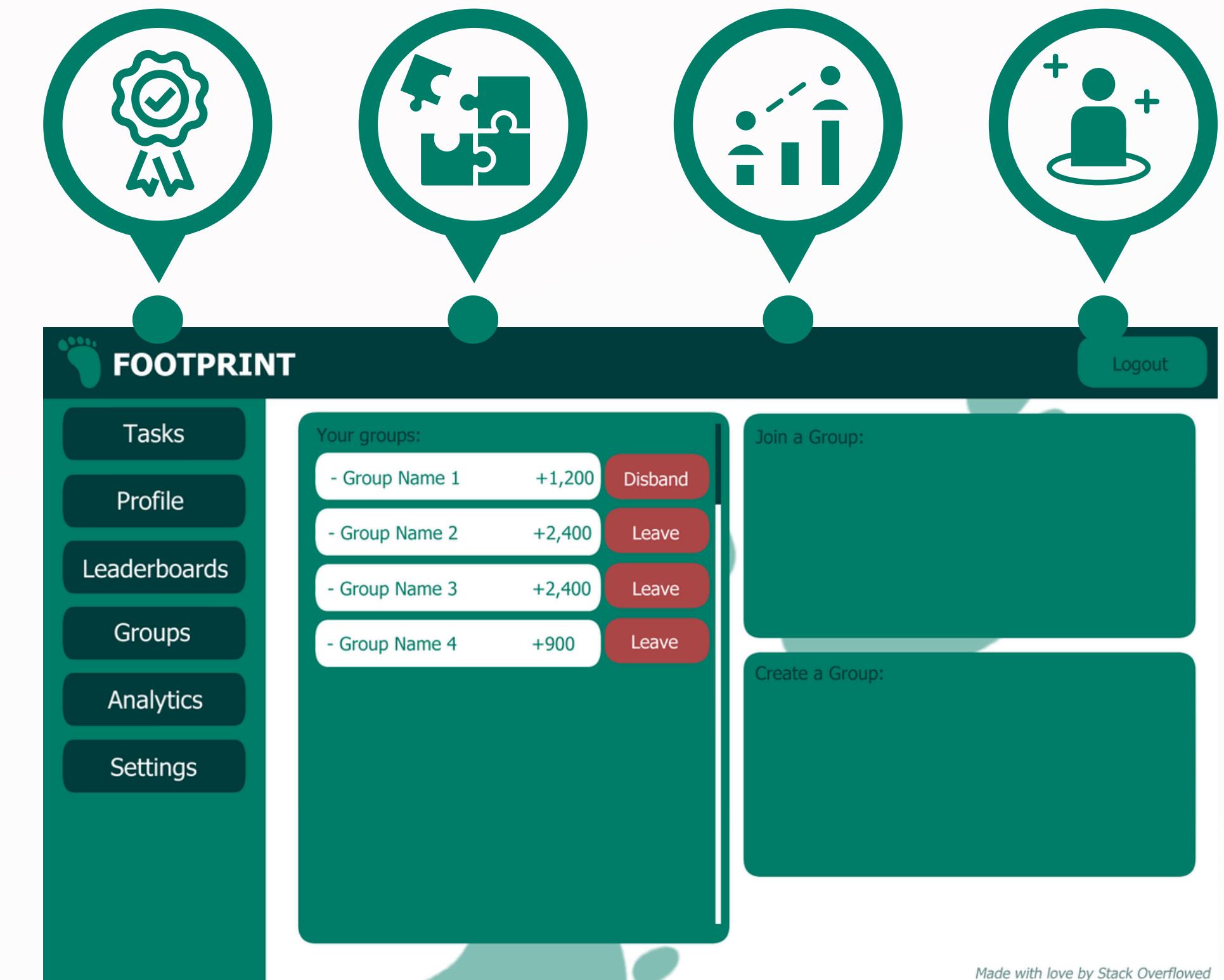
Lastly we are assuming that users are honest with their submissions that it's their actions and images belong to them.

03

Future goals that will be seen in the second sprint.

04

We want to implement incentives such as badges and streaks.



Made with love by Stack Overflowed

Our Team

Madi Walters - Team Lead

Zarreen Peeroo - UX

Ben Hoskins - Technical Lead

Armin Golahmadi - Documentation

Davi Oppes - Testing

Jai Thacker - Data Lead

Marko Parkinson - Developer

Phoebe Say - Developer



FOOTPRINT

Username...

Password...

Role ▾

Campus ▾

User data collection consent message...

SIGN UP

Username...

Password...

LOG IN

We have saved
1000 tonnes
of carbon emissions!

Fun Fact : University of Exeter has saved 100 tonnes of CO₂ emissions through the Warp It Reuse scheme.



Tasks

Profile

Leaderboards

Groups

Analytics

Settings

Daily Tasks:

- Walk to campus +500 v

- Eat a vegetarian meal +300

*Upload a photo of your
vegetarian meal!*

Weekly Tasks:

Monthly Challenges:



Tasks

Profile

Leaderboards

Groups

Analytics

Settings

Task Completed:

Date:

Points:

Approval:

- Name of task v 01-01-26 +250 Approved

- Name of task v 01-01-26 +250 Pending

- Name of task v 01-01-26 +250 Approved

- Name of task v 01-01-26 +250 Not Approved

Description of the task on the drop down toggle...

...

...

...



Tasks

Profile

Leaderboards

Groups

Analytics

Settings

Daily

Weekly

Monthly

Lifetime

Groups

Users

- User 2

15,600

- User 3

12,300

- Group 1

3,200

Fun Fact : You have saved 10 tonnes of carbon emissions!

Made with love by Stack Overflowed

[Tasks](#)[Profile](#)[Leaderboards](#)[Groups](#)[Analytics](#)[Settings](#)

Your groups:

- Group Name 1 +1,200 [Disband](#)
- Group Name 2 +2,400 [Leave](#)
- Group Name 3 +2,400 [Leave](#)
- Group Name 4 +900 [Leave](#)

Join a Group:

Create a Group:

[Tasks](#)[Profile](#)[Leaderboards](#)[Groups](#)[Analytics](#)[Settings](#)

Update Username:

Old Username...

New Username...

Update Password:

Old Password...

New Password...

Update Role:

Current Role

v

Are you sure of the changes?

Submit

[Logout](#)

[Delete Account](#)



Tasks

Profile

Leaderboards

Groups

Analytics

Settings

Evidence

Challenges

Daily Tasks:

- Walk to campus +500 v

- Eat a vegetarian meal +300

*Upload a photo of your
vegetarian meal!*

Weekly Tasks:

Monthly Challenges:



Tasks

Profile

Leaderboards

Groups

Analytics

Settings

Evidence

Challenges

User:**Date:****Evidence:****Warnings:**

Username

01-01-26

[See Evidence]

Flagged

Approve

Deny

Username

01-01-26

[See Evidence]

None

Approve

Deny

Username

01-01-26

[See Evidence]

Flagged

Approve

Deny

[Tasks](#)[Profile](#)[Leaderboards](#)[Groups](#)[Analytics](#)[Settings](#)[Evidence](#)[Challenges](#)

Challenge Name:

Set Date:

Start Date (Not before today)

End Date

Challenge Type:

Submit Evidence

Are you sure?

Submit