

# User's Guide

## Run the code

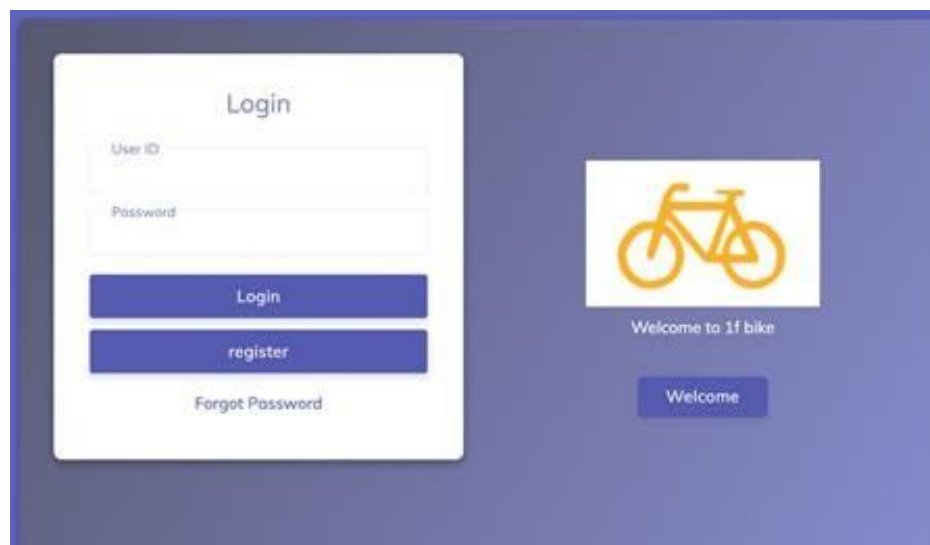
In your terminal input “python manage.py runserver” command to start the program.

```
Terminal: Local x +
(python) (base) pc-71-150:bike apple$ python manage.py runserver
Watching for file changes with StatReloader
Performing system checks...

System check identified no issues (0 silenced).
February 28, 2021 - 12:01:14
Django version 3.0, using settings 'bike.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CONTROL-C.
```

## 1. Login

In the login function, you need to enter the username and password. If the login is successful, you will be directed to the main page.



If login fails, the system will display a "login error!" along with a reminder prompt to register.

---

Forgot Password

login error!

register first!

---

## 2. Register

On the registration page, as a new user you need to enter a chosen user ID, password and username, your telephone and bankcard numbers. Click on the register button to create your personal account.

User Register

User ID

19999

Password

•••••

Password again

•••••

user name

example1

telephone


07546576543

Bank card

62122602000987675348

Register

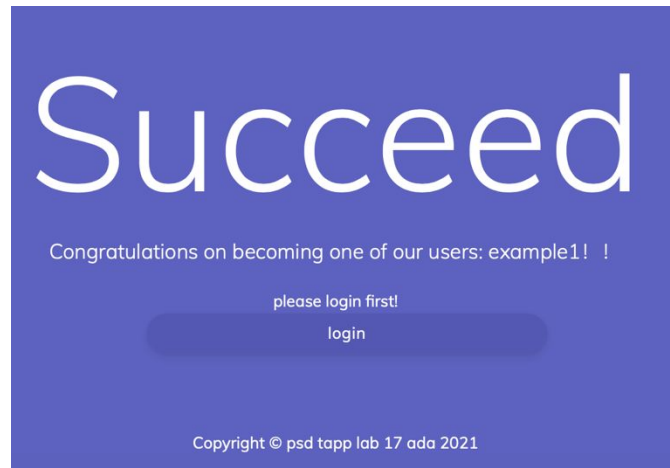
login



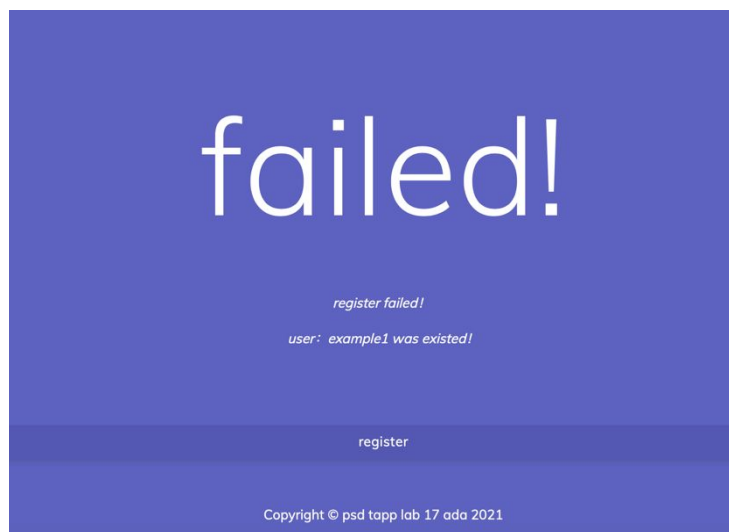
Note that the final explanation of this bicycle website belongs to the 1f team

Notice

If the registration is successful, you will get a successful prompt and you will be directed to your homepage.

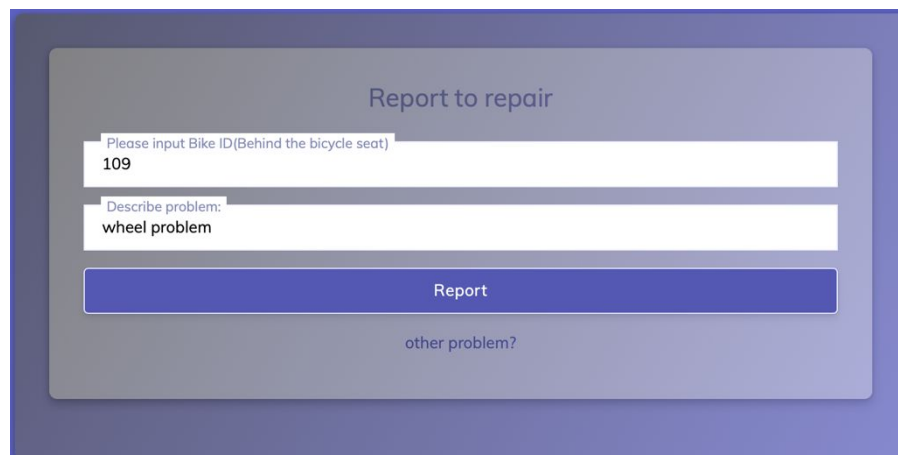


If the registration fails, you will get a failure prompt as shown below. You can try again by clicking on the “register” button



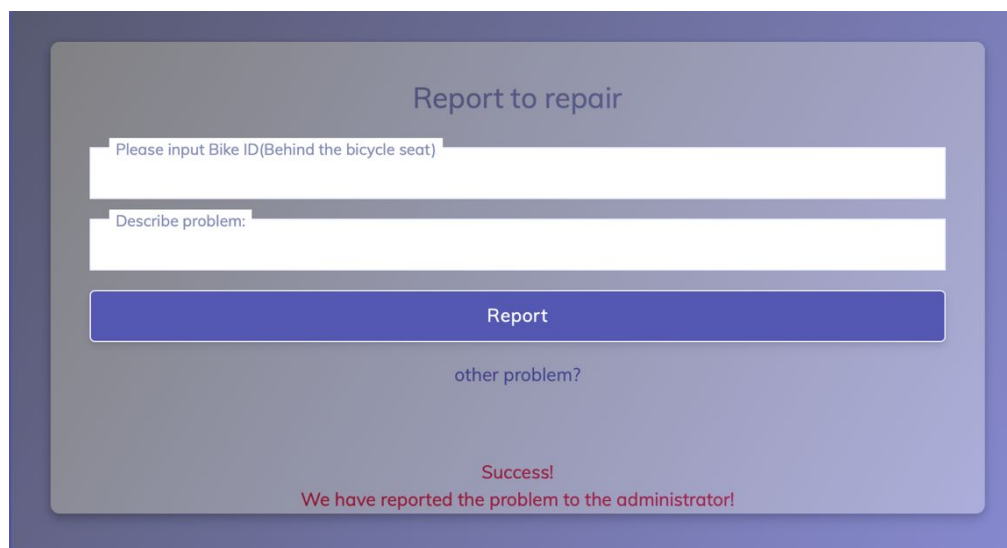
### 3. Defective

You can report a broken bike to the team. To do so provide the bikeID and the problem description in the corresponding box.



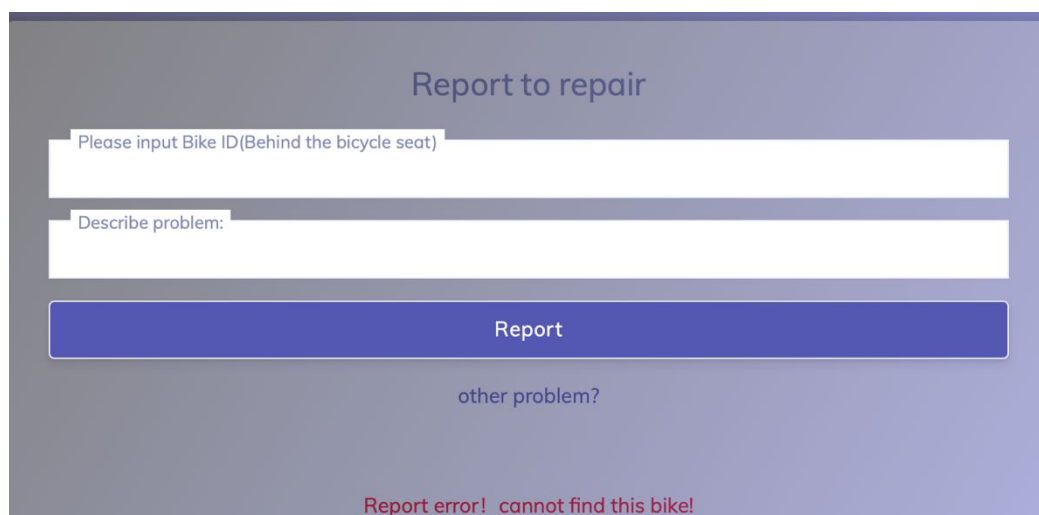
The screenshot shows a web form titled "Report to repair". It has two input fields: "Please input Bike ID(Behind the bicycle seat)" with the value "109" and "Describe problem:" with the value "wheel problem". Below these fields is a blue "Report" button. Under the button is a link that says "other problem?". The form is set against a light blue background.

If successful you will get a message



This screenshot shows the same "Report to repair" form, but with a success message at the bottom. The message reads: "Success! We have reported the problem to the administrator!". The "Report" button is now disabled and has a lighter blue color. The "other problem?" link remains visible.

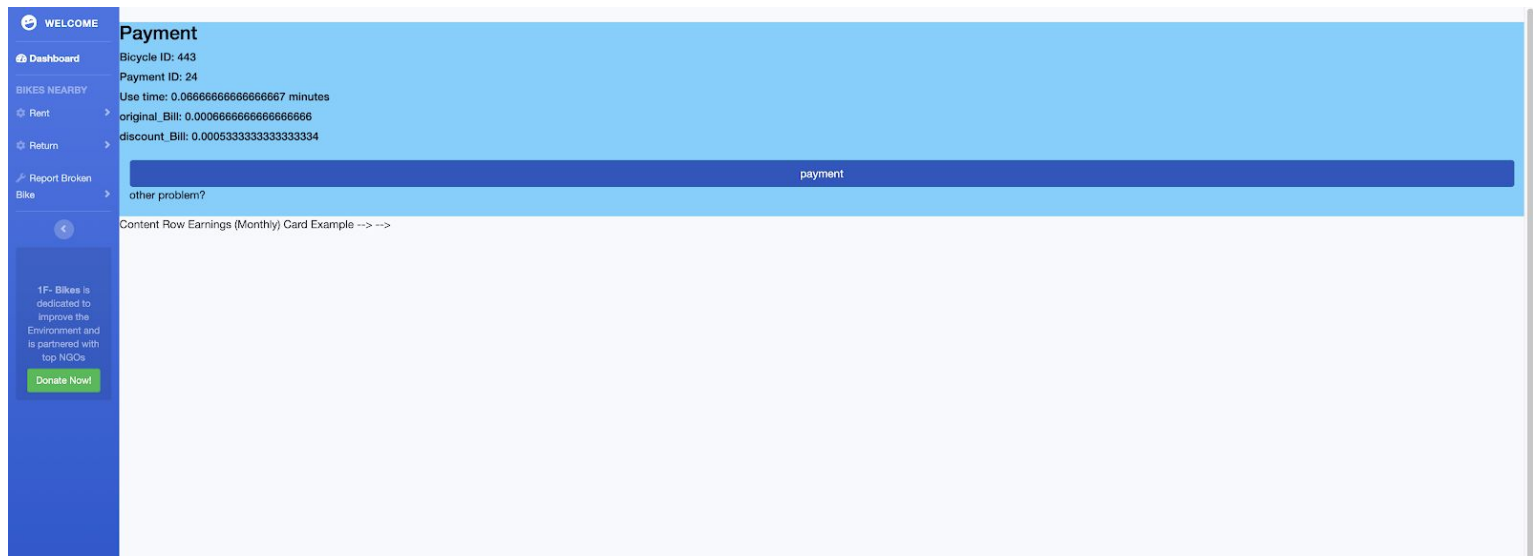
If the report is not successful you will get an error message.



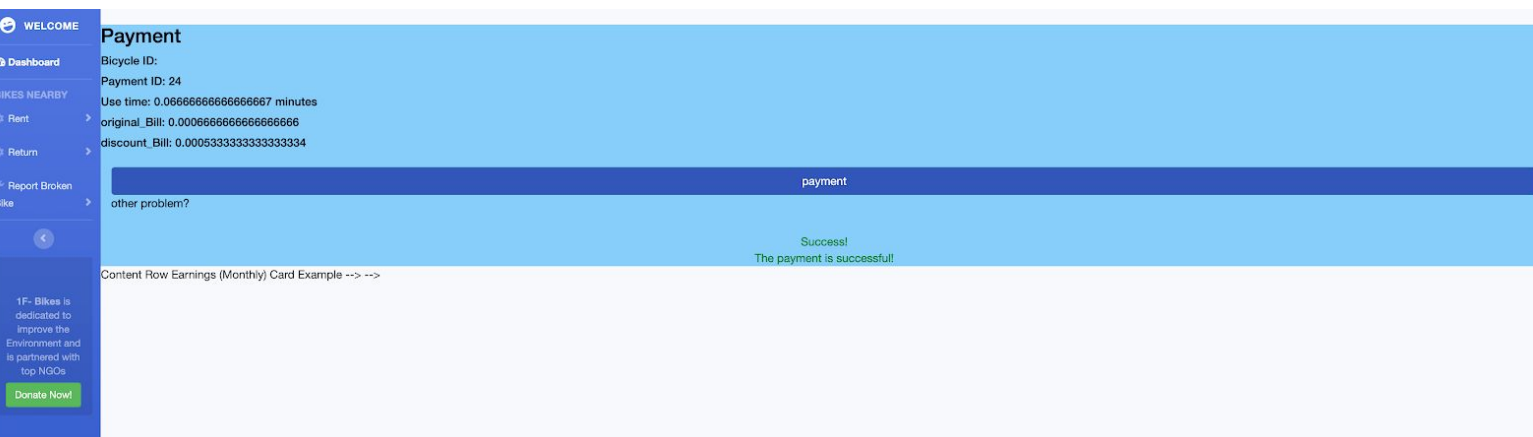
This screenshot shows the "Report to repair" form with an error message at the bottom. The message reads: "Report error! cannot find this bike!". The "Report" button is disabled and has a lighter blue color. The "other problem?" link remains visible.

## 4.Payment

To proceed with a payment just click on the pay button which is available on the main page. If you have more than 500 minutes you will get a 20% discount on your total.



If the payment is successful you will get a success message.

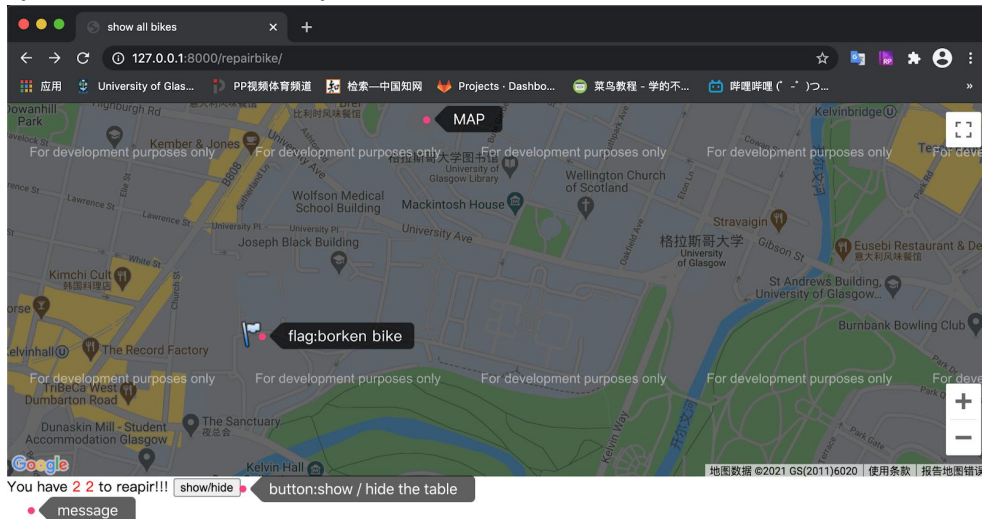


# Operator's Guide

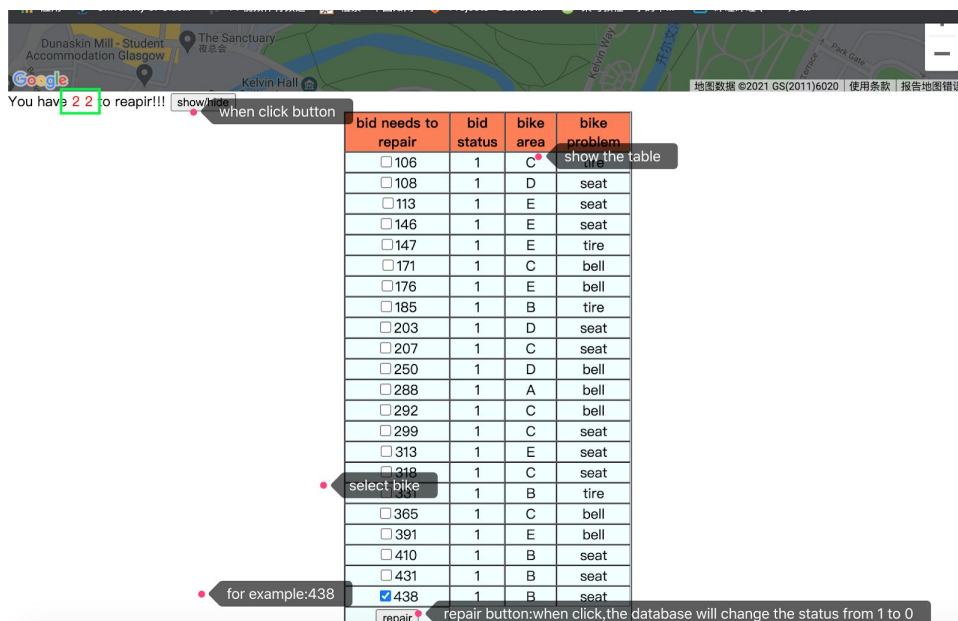
## 1. Repair Bike

When you click on the “repairbike” button on the sidebar, the map of Glasgow shows up, where you can see the damaged bike marked with a flag (figure). Underneath the map you will be able to see the number of bikes needed to be repaired. The number will be digital and in red format. The button labeled “Show/hide” displays/hides the table with all bicycles’ information. Here you can choose the bicycle that has been repaired, by clicking on the repair button.

As the following picture shows, underneath the map you can see the reminder prompt “You have 22 to repair!!!”



Click on the “show/hide” button and select the bike which needs to be repaired ( for example 438)



← → ↺ ⓘ 127.0.0.1:8000/repairbike/repair

应用 University of Glas... PP视频体育频道 检索—中国知网 Pro

21

to reapiir!!!

show/hide

- form 22 to 21

bid needs to repair	bid status	bike area	bike problem
<input type="checkbox"/> 106	1	C	tire
<input type="checkbox"/> 108	1	D	seat
<input type="checkbox"/> 113	1	E	seat
<input type="checkbox"/> 146	1	E	seat
<input type="checkbox"/> 147	1	E	tire
<input type="checkbox"/> 171	1	C	bell
<input type="checkbox"/> 176	1	E	bell
<input type="checkbox"/> 185	1	B	tire
<input type="checkbox"/> 203	1	D	seat
<input type="checkbox"/> 207	1	C	seat
<input type="checkbox"/> 250	1	D	bell
<input type="checkbox"/> 288	1	A	bell
<input type="checkbox"/> 292	1	C	bell
<input type="checkbox"/> 299	1	C	seat
<input type="checkbox"/> 313	1	E	seat
<input type="checkbox"/> 318	1	C	seat
<input type="checkbox"/> 331	1	B	tire
<input type="checkbox"/> 365	1	C	bell
<input type="checkbox"/> 391	1	E	bell
<input type="checkbox"/> 410	1	B	seat
<input type="checkbox"/> 431	1	B	seat
<input type="checkbox"/> repair			

- 438 disappear

## 2. Move Bike

The “move bike” button will redirect you to a page showing a table with all information including bike ID, bike status( broken or not ), bike location, bike area and whether the bike is occupied or not by clicking on the show/hide button.

You can choose the bikes need to be moved by checking the box and the enter the area which will be moved to

WELCOME

Dashboard

Track Locations

Repair

Move Bikes

1P- Bikes is dedicated to improve the Environment and is partnered with top NGOs

Donate Now!

Every area is good!

area A	area B	area C	area D	area E
67	111	112	94	121

bike ID	bike status	bike latitude	bike longitude	bike area	bike usage
<input type="checkbox"/> 101	2	55.9202802634	-4.1432535985	A	0
<input type="checkbox"/> 102	2	55.9132034981	-4.1461384719	A	0
<input type="checkbox"/> 103	2	55.9132034981	-4.1461384719	A	0
<input type="checkbox"/> 104	1	55.9132034981	-4.1461384719	A	0
<input type="checkbox"/> 105	2	55.9132034981	-4.1461384719	A	0
<input type="checkbox"/> 106	0	55.9202802634	-4.1432535985	C	0
<input type="checkbox"/> 107	0	55.8279059841	-4.2551847174	D	0
<input type="checkbox"/> 108	1	55.8710914566	-4.295252466	D	1
<input type="checkbox"/> 109	0	55.8636014376	-4.1461384719	E	1
<input type="checkbox"/> 110	0	55.9261158733	-4.3089681093	B	0
<input type="checkbox"/> 111	0	55.9370249896	-4.2864509881	B	0
<input type="checkbox"/> 112	0	55.8728923554	-4.1042244789	E	0
<input type="checkbox"/> 113	1	55.8351886472	-4.0628324227	E	0
<input type="checkbox"/> 114	0	55.9002578096	-4.2359392471	B	1

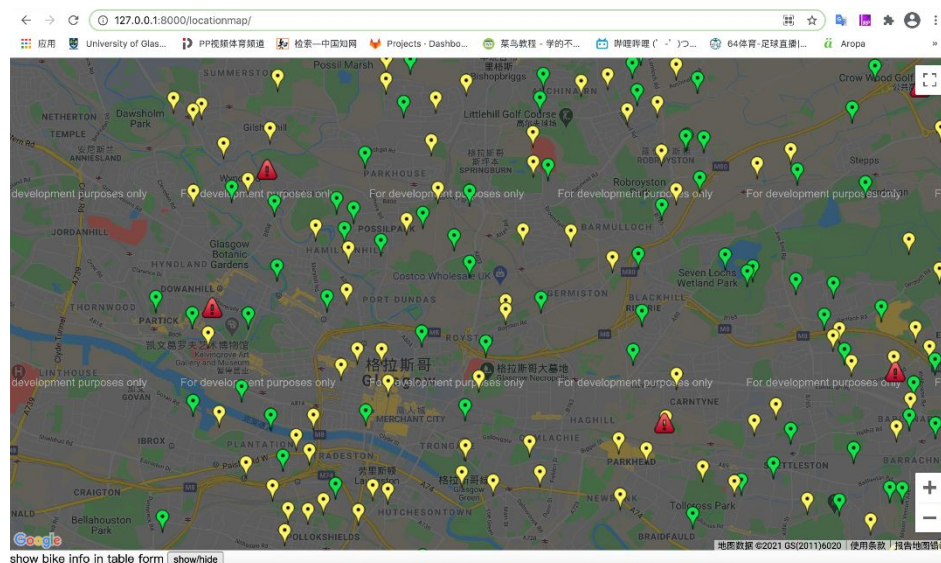
## 3. Track Bikes

You will see 3 kinds of markers on the map. The information of each bike will show up when you hover the mouse over the markers:

**Green dot** ☐ available bikes

**Yellow dot** ☐ occupied bikes

**Caution sign** ☐ broke down





On the bottom left of the map, there is a button labeled “show/hide”, you can click to see information of all bikes in a table form as shown in next figure



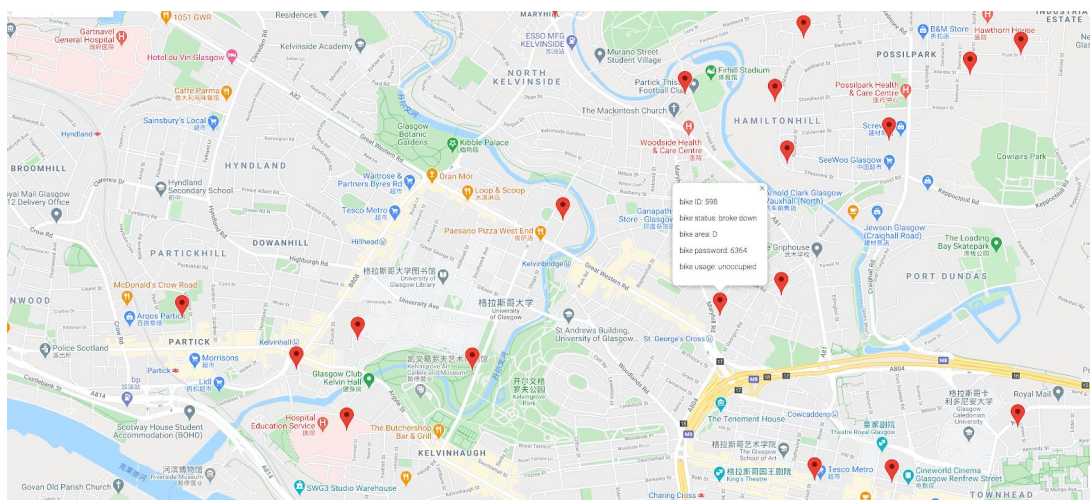
## Manager’s Guide

### 1. Data Visualization

As a manager you can check all information regarding the bikes. On the sidebar you will be able to select one of the following data visualization charts :

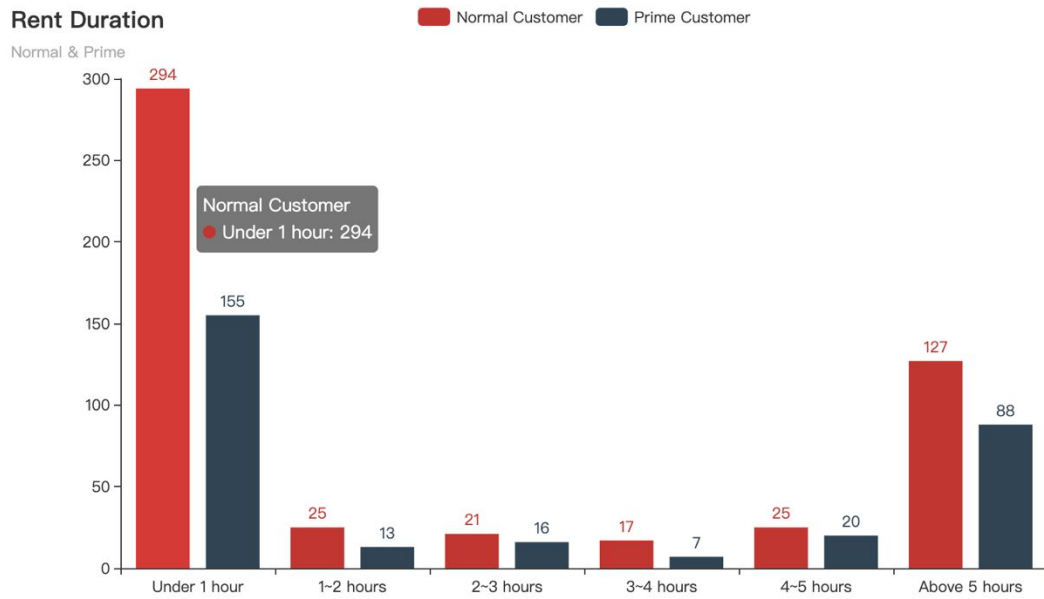
#### Bike map

A map showing all bikes’ location. To access the information of a specific bike just hover over the pin with your mouse and a list of information will be displayed as shown below

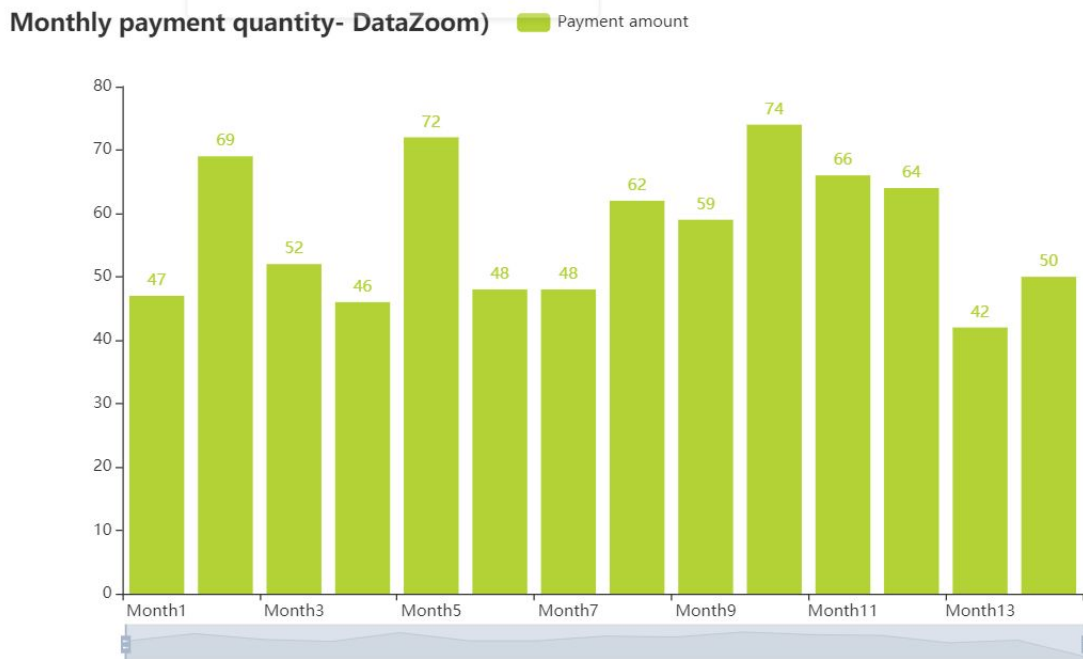


## Rent Duration

You can check the rental duration both for Normal and Prime customers.

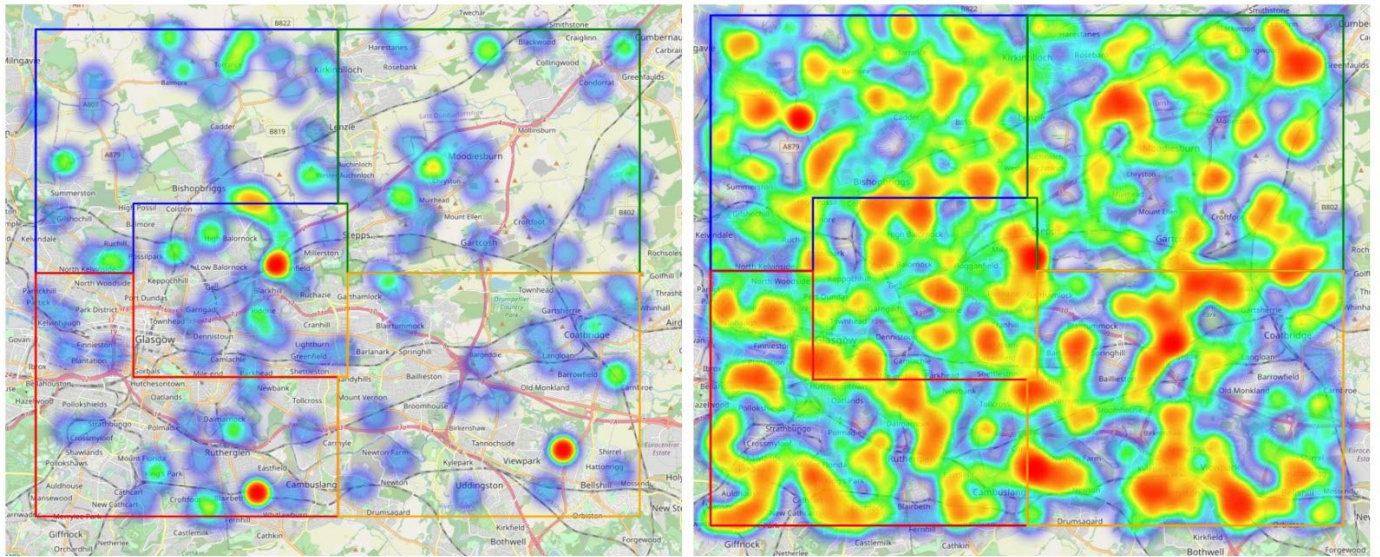


## Orders Quantity



## Rental and Payment places heatmap

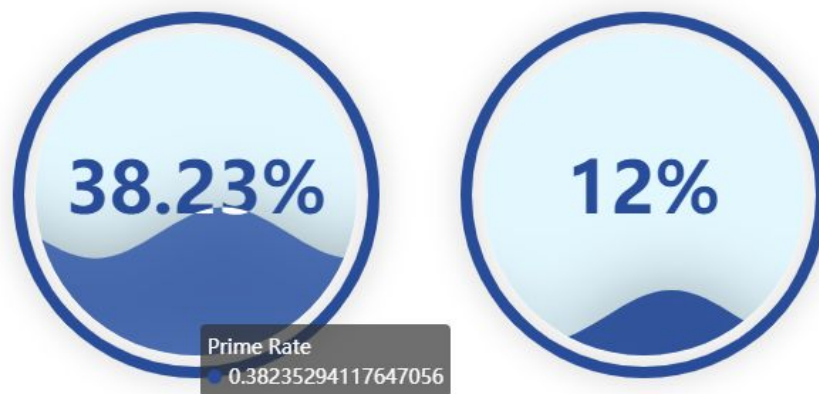
Find the places with higher rental and payment rates.



## Usage Rate (Prime and Bike)

The liquid chart demonstrates the Prime rate usage and the overall use rate of bikes.

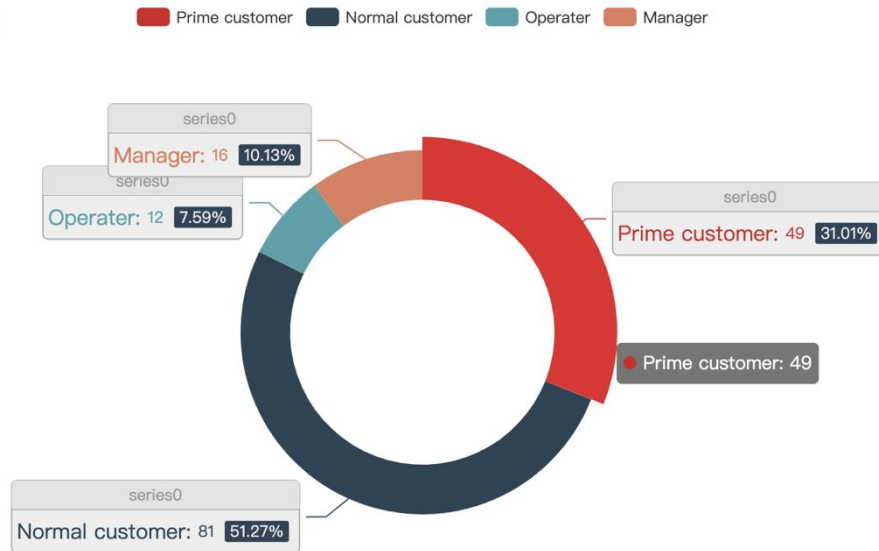
powered by



## User Scale

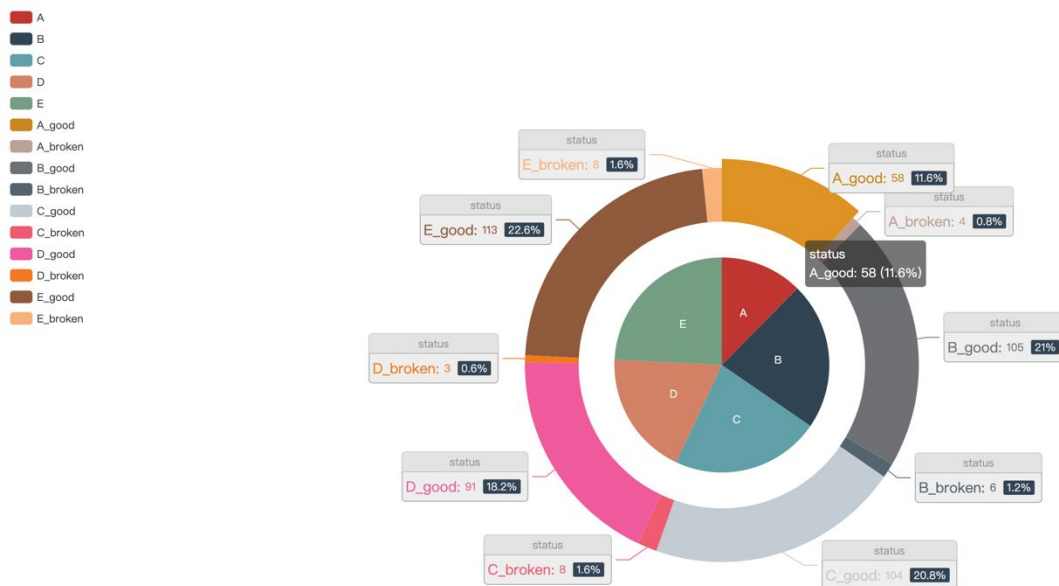
Chart of all users registered on the system

User Structure



## Bike Status

Find number of broken bikes in each area



For a demonstrated version of the steps you can click on the link below :

[VideoDemonstration](#)

or try

<https://web.microsoftstream.com/video/7a7c51b1-006a-44dd-a074-0b954d833174>