




Smart-Clean Corfu

Andreas Georgiou,
IT Department at Ionian University



Programming languages and software used to build the web app

Back-end

- Django (Python web framework) [1]
- Python [2]
- MySQL [3]
- API [4]



Front-end

- HTML [5]
- CSS [6]
- Javascript [7]
- Google Maps [8]





Description

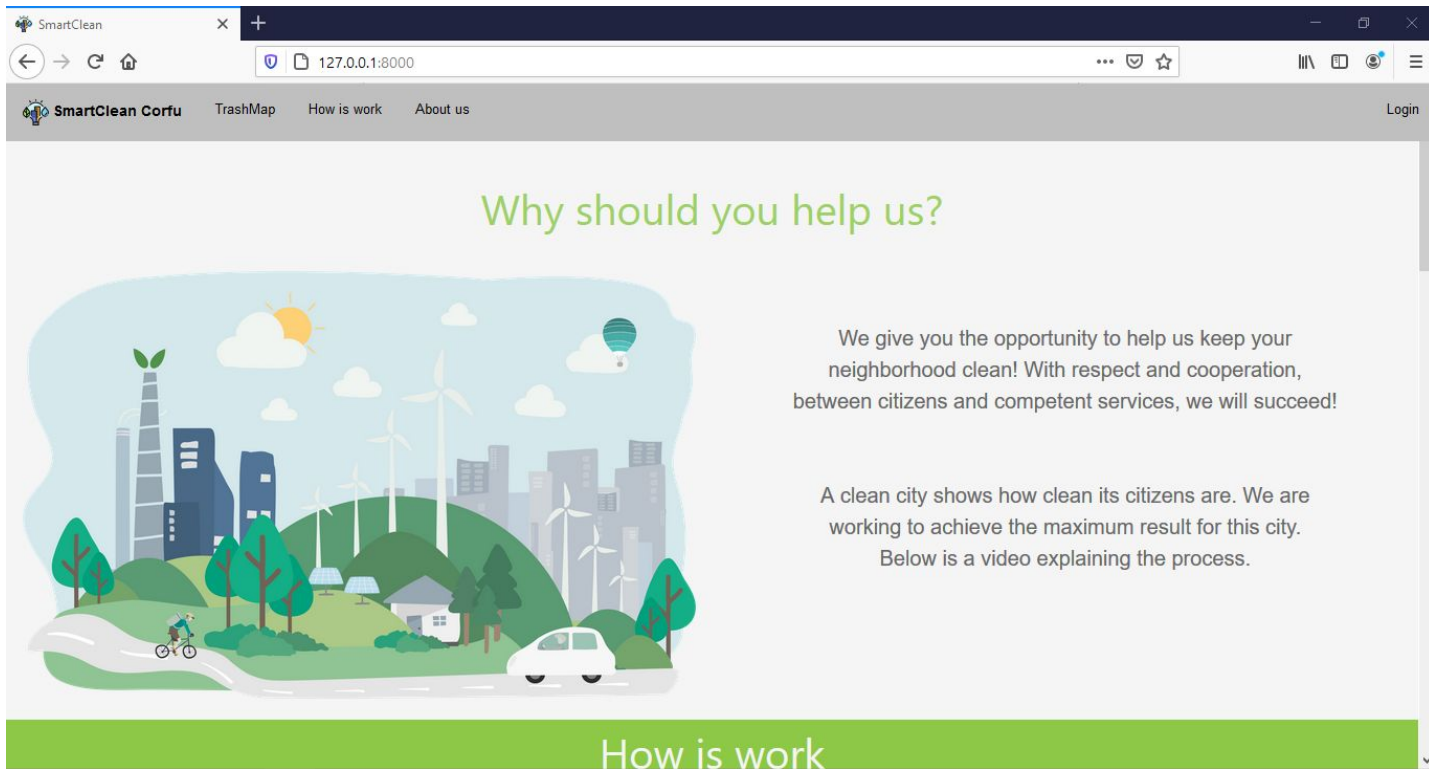
This web application was created for the purpose of the dissertation. The theme of the Web App is the smart cleanliness of the city.

The application is divided into two parts:

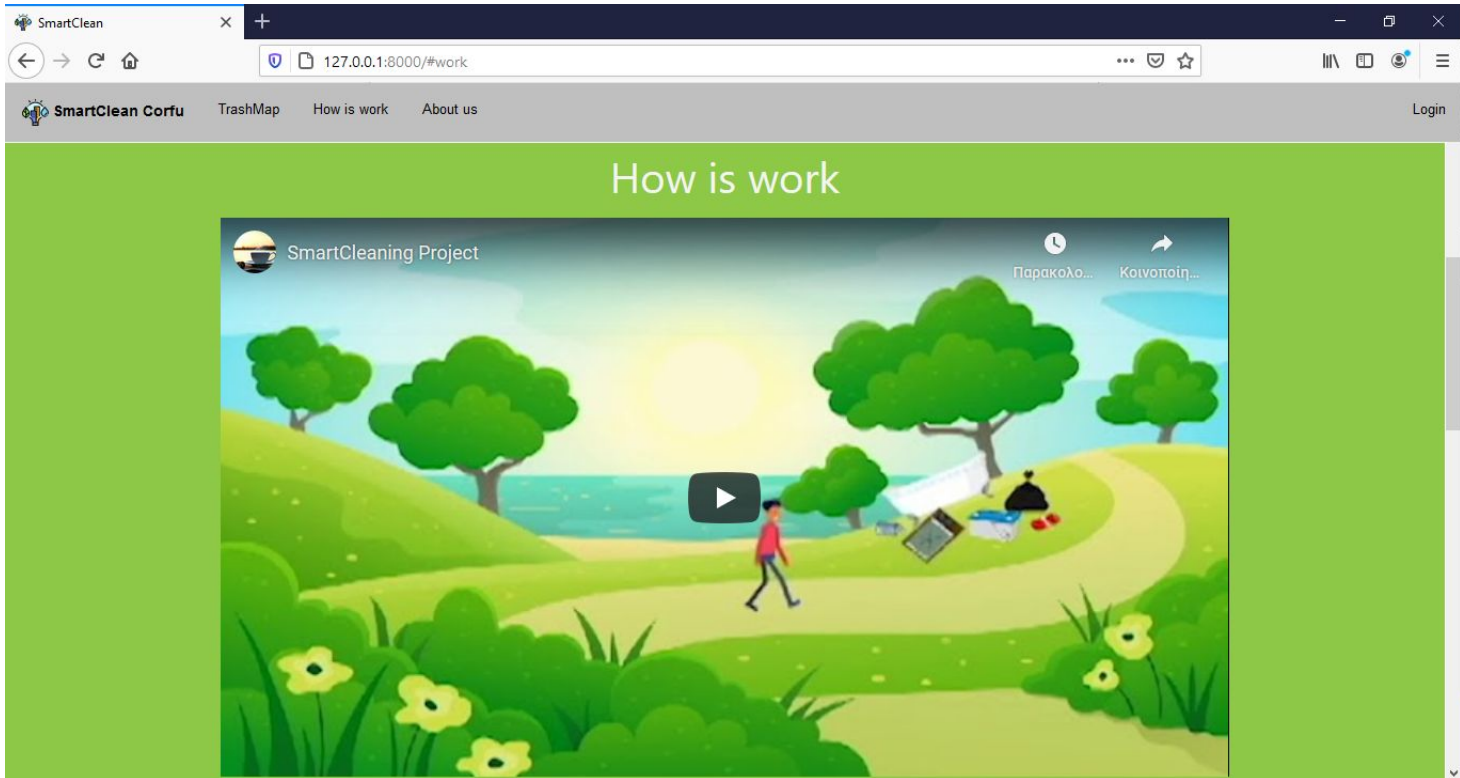
The **first part** are the citizens (Users) of the city where they will report the full bins and the neglected garbage.

The **second part** is the Cleaning Services (SuperUsers) of the city where they will view the reports and they will clean the city smartly and quickly.

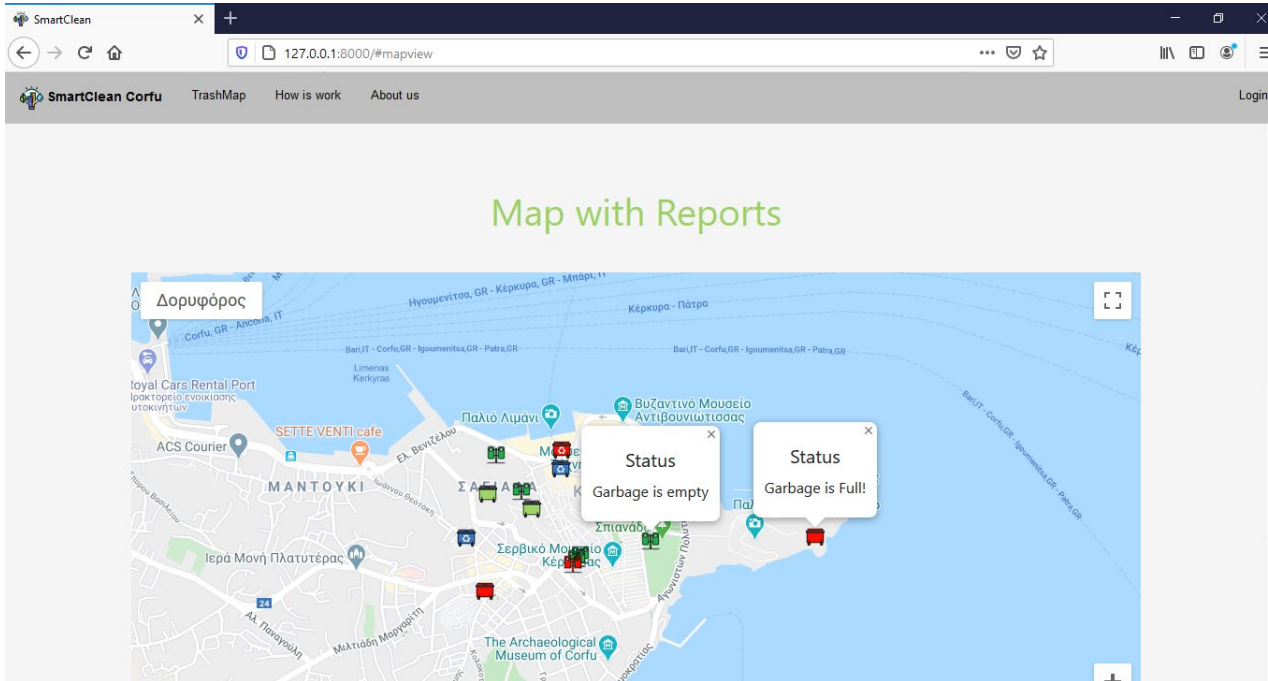
User Interface - Homepage



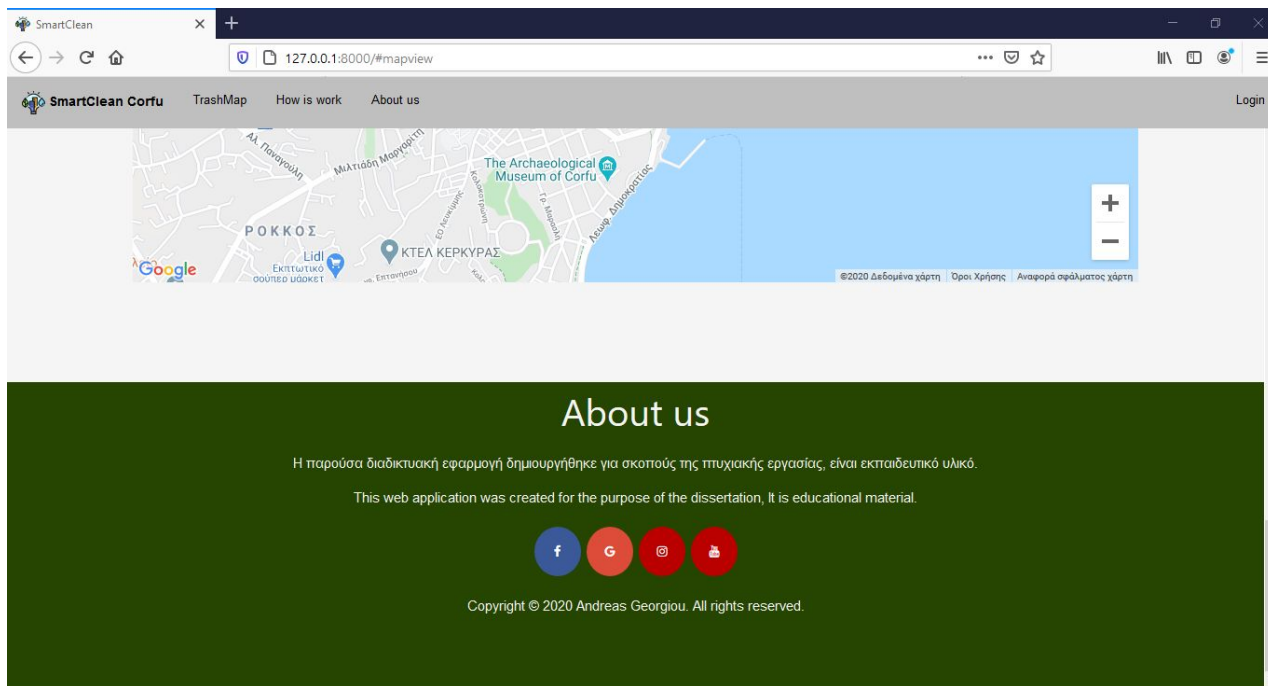
User Interface - Homepage (2)



User Interface - Homepage (3)



User Interface - Homepage (4)





Make an account



SmartClean Register

Username:

Email:

Retype email:

Password:



Verify new account by email

Activate your account.



Be careful. This message looks like a phishing scam. [Learn more about phishing](#)



SmartClean SmartClean <smartclean.info2020@gmail.com>

Wed 8/5/2020 4:51 PM

To: andreasg.7@hotmail.com



Hi andreas,

Please click on the link to confirm your registration,

<http://127.0.0.1:8000/activate/MTk/5ez-f8ddf944d3841df3093f/>

If you think, it's not you, then just ignore this email.

[Reply](#)

| [Forward](#)



Login

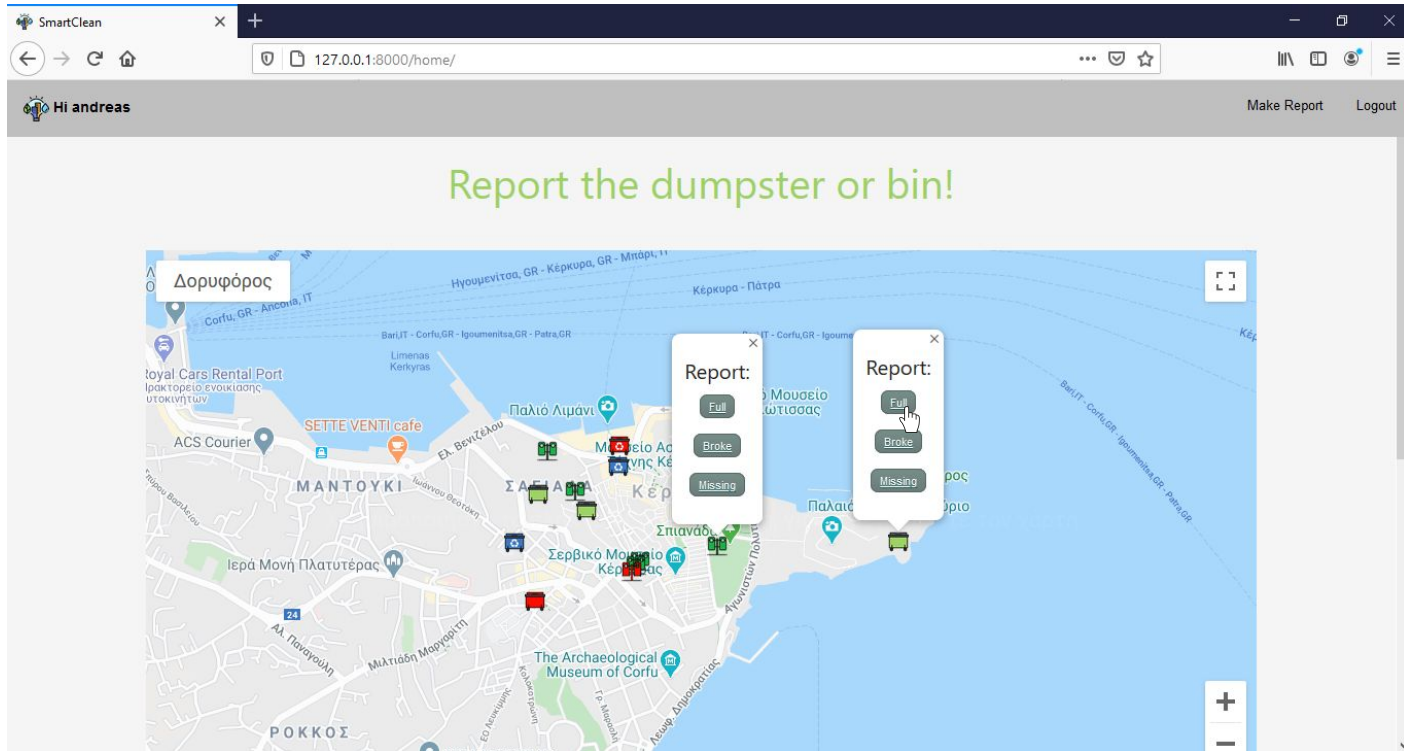


SmartClean Login

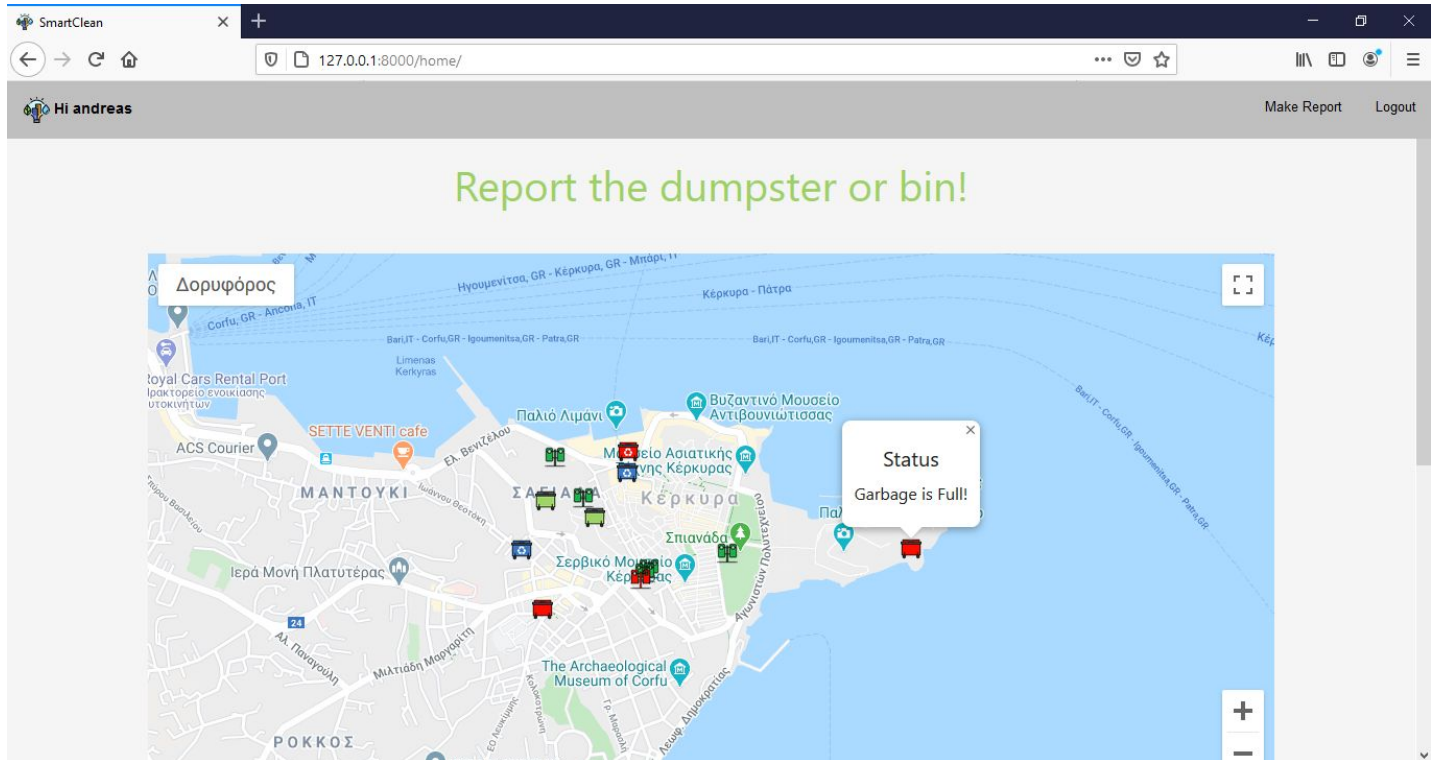
Username:

Password:

User has three choices (Full, Broke, Missing)



After Report



User Reports the neglected garbage (1)


SmartClean

Hi andreas

TrashMap Logout

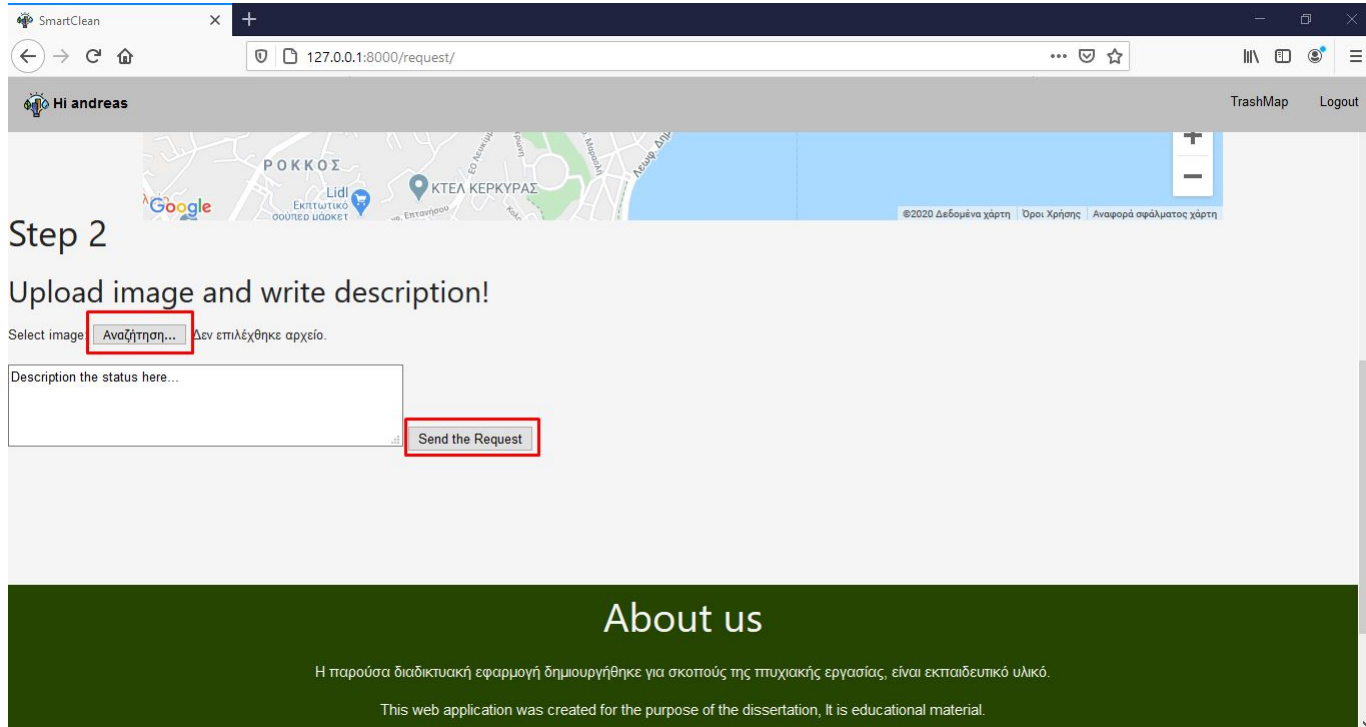
Step 1

Drag the marker on the trash's location



The screenshot shows a web browser window with the URL 127.0.0.1:8000/request/. The page displays a map of Corfu, Greece, with a red location pin placed on the map. A tooltip next to the pin says "You can drag me!". The map shows various landmarks and streets in Corfu, including the "Museum of Corfu", "The Archaeological Museum of Corfu", and "The Corfu Museum". The user's name "Hi andreas" is visible in the top left corner, and "TrashMap Logout" is in the top right corner. The page is titled "Step 1" and "Drag the marker on the trash's location".

User Reports the neglected garbage (2)



The screenshot shows a web browser window with the URL `127.0.0.1:8000/request/`. The page header includes the user name "Hi andreas" and links for "TrashMap" and "Logout". A Google Map is displayed at the top, showing a location in Greece with labels like "ΠΟΚΚΟΣ", "Lidl", and "ΚΤΕΑ ΚΕΡΚΥΡΑΣ".

Step 2

Upload image and write description!

Select image Δεν επιλέχθηκε αρχείο.

Description the status here...

About us

Η παρούσα διαδικτυακή εφαρμογή δημιουργήθηκε για σκοπούς της πτυχιακής εργασίας, είναι εκπαιδευτικό υλικό.

This web application was created for the purpose of the dissertation, It is educational material.

SuperUser page - view the bins reports

The screenshot displays the SmartClean Admin interface in a web browser. The browser's address bar shows the URL `127.0.0.1:8000/home/`. The page header includes the "Hi admin" logo and navigation links: "View the Users", "Add Garbages", "View Reports", and "Logout".

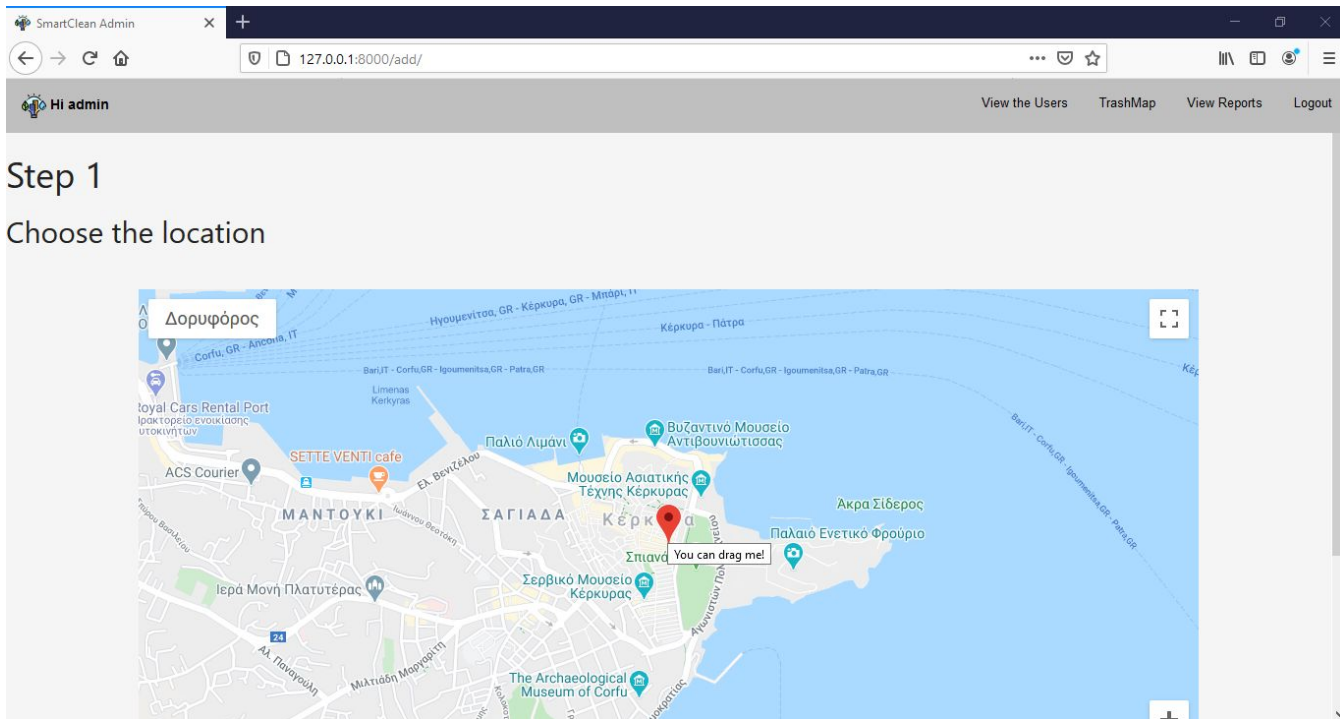
The main content area features a large green heading: "View the Reports for the dumpster or bin!". Below this is a map of Corfu, Greece, with various locations marked. A search bar in the top left of the map area contains the text "Δορυφόρος".

Two pop-up windows are visible over the map:

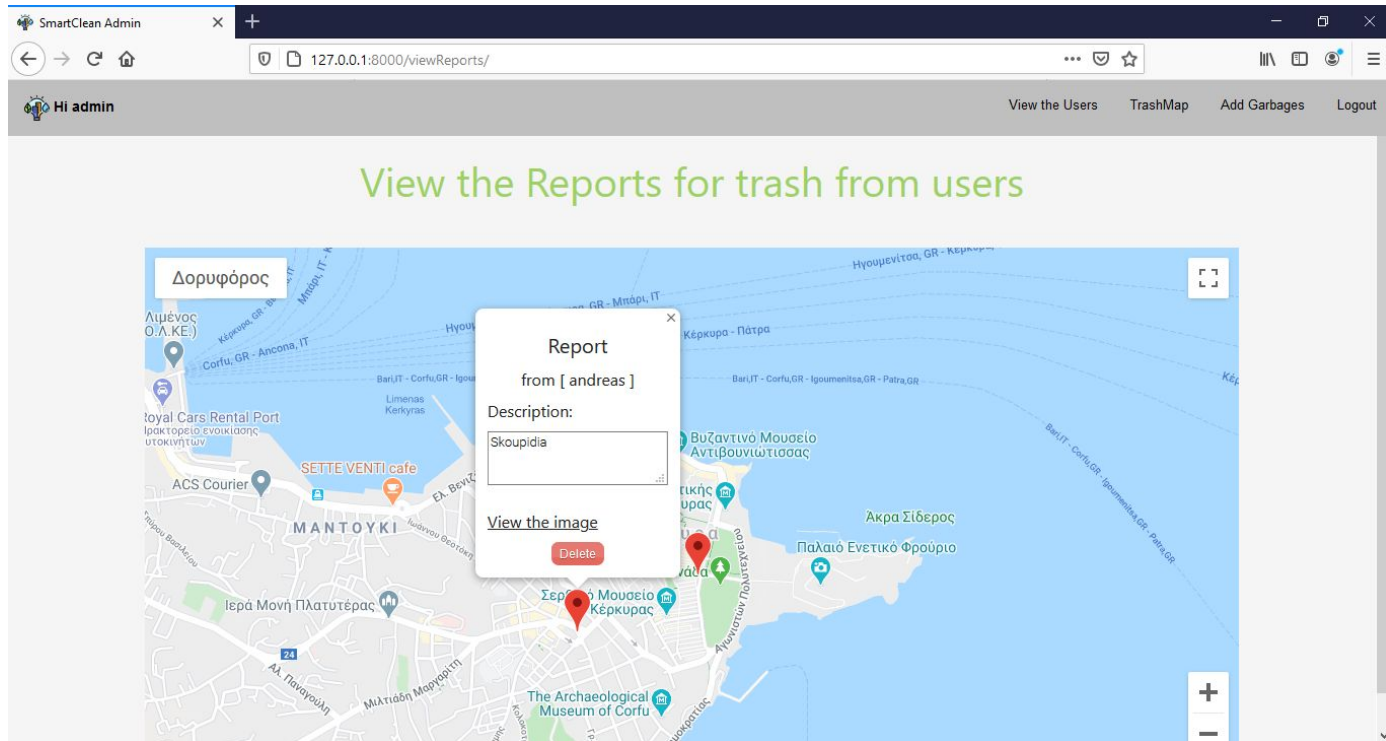
- The first window, titled "Status:", contains a list of status options: "Full", "Broke", "Missing", and "Delete".
- The second window, also titled "Status:", displays the text "Report by [andreas]" and "Garbage is Full!". It includes two buttons: a green "Empty" button and a red "Delete" button.

The map shows several locations, including "MANTΟΥΚΙ", "ΣΑΡΙΑΔΑ", "Κέρκυρα", and "The Archaeological Museum of Corfu".

SuperUser page - Add bins on map (1)



SuperUser page - View the Reports



SuperUser page - View the User's Accounts (1)

Select user to change | Django site X

127.0.0.1:8000/admin/auth/user/

Django administration WELCOME, ADMIN. VIEW SITE / CHANGE PASSWORD / LOG OUT

Home Authentication and Authorization Users

AUTHENTICATION AND AUTHORIZATION

- Groups + Add
- Users + Add

CLEAN

- Garbagess + Add
- Reportss + Add

«

Select user to change

ADD USER +

Q [] Search

Action: [] Go 0 of 3 selected

<input type="checkbox"/>	USERNAME	EMAIL ADDRESS	FIRST NAME	LAST NAME	STAFF STATUS
<input type="checkbox"/>	admin	[REDACTED]@gmail.com			✓
<input type="checkbox"/>	andreas	[REDACTED]@hotmail.com			✗
<input type="checkbox"/>	nick	[REDACTED]@hotmail.com			✗

3 users

FILTER

By staff status

- All
- Yes
- No

By superuser status

- All
- Yes
- No

By active

- All
- Yes
- No

SuperUser page - View the User's Accounts (2)

Change user | Django site admin

127.0.0.1:8000/admin/auth/user/19/change/

Django administration

WELCOME, ADMIN. VIEW SITE / CHANGE PASSWORD / LOG OUT

Home / Authentication and Authorization / Users - andreas

Change user

Username: andreas

Password: algorithm: pbkdf2_sha256 iterations: 216000 salt: 6QaoQ***** hash: rHtpgU*****

Raw passwords are not stored, so there is no way to see this user's password, but you can change the password using this form.

Personal info

First name:

Last name:

Email address: @hotmail.com

Permissions

☒ **Active**
Designates whether this user should be treated as active. Unselect this instead of deleting accounts.

☐ **Staff status**
Designates whether the user can log into this admin site.

Change user | Django site admin

127.0.0.1:8000/admin/auth/user/19/change/

Change user

Authentication and Authorization

Groups: + Add

Users: + Add

CLEAN

Garbagess: + Add

Reportes: + Add

Permissions:

- auth | group | Can change group
- auth | group | Can delete group
- auth | group | Can view group
- auth | permission | Can add permission
- auth | permission | Can change permission
- auth | permission | Can delete permission
- auth | permission | Can view permission
- auth | user | Can add user
- auth | user | Can change user
- auth | user | Can delete user

Important dates

Last login: Date: 2020-08-06 Today
Time: 07:53:57 Now
Note: You are 3 hours ahead of server time.

Date joined: Date: 2020-09-21 Today
Time: 12:38:29 Now
Note: You are 3 hours ahead of server time.

Buttons: Delete, Save and add another, Save and continue editing, SAVE



Bibliography - Networking

[1] <https://www.djangoproject.com/>

[2] <https://www.python.org/>

[3] <https://www.mysql.com/>

[4] <https://www.django-rest-framework.org/>

[5] <https://www.w3schools.com/html/>

[6] <https://www.w3schools.com/css/>

[7] <https://www.w3schools.com/js/>

[8] <https://developers.google.com/maps/documentation>