




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

The **theme** of the Web App is the **smart clean** of the city.

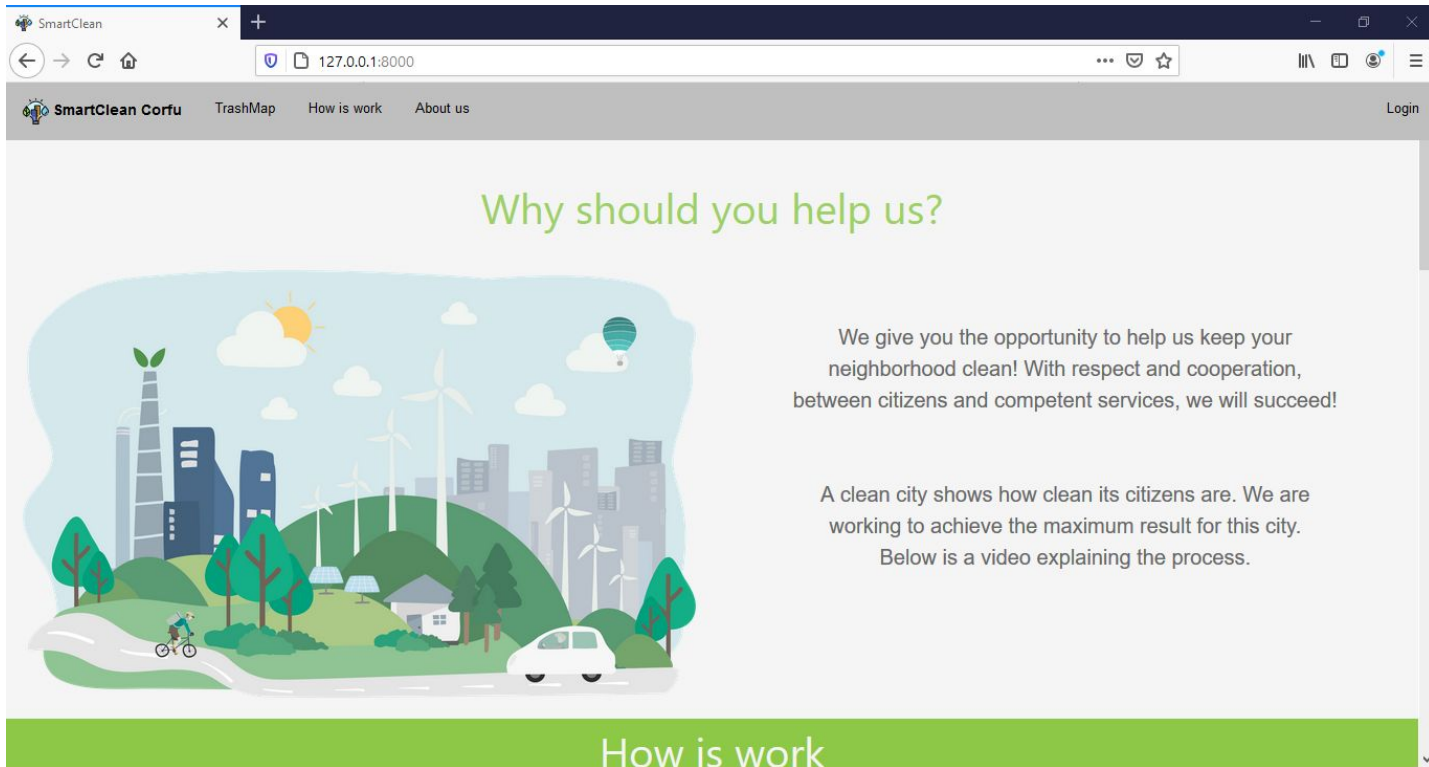
The application is divided into two parts:

The **first part** are the citizens (Users) of the city where they will be able to make some reports.

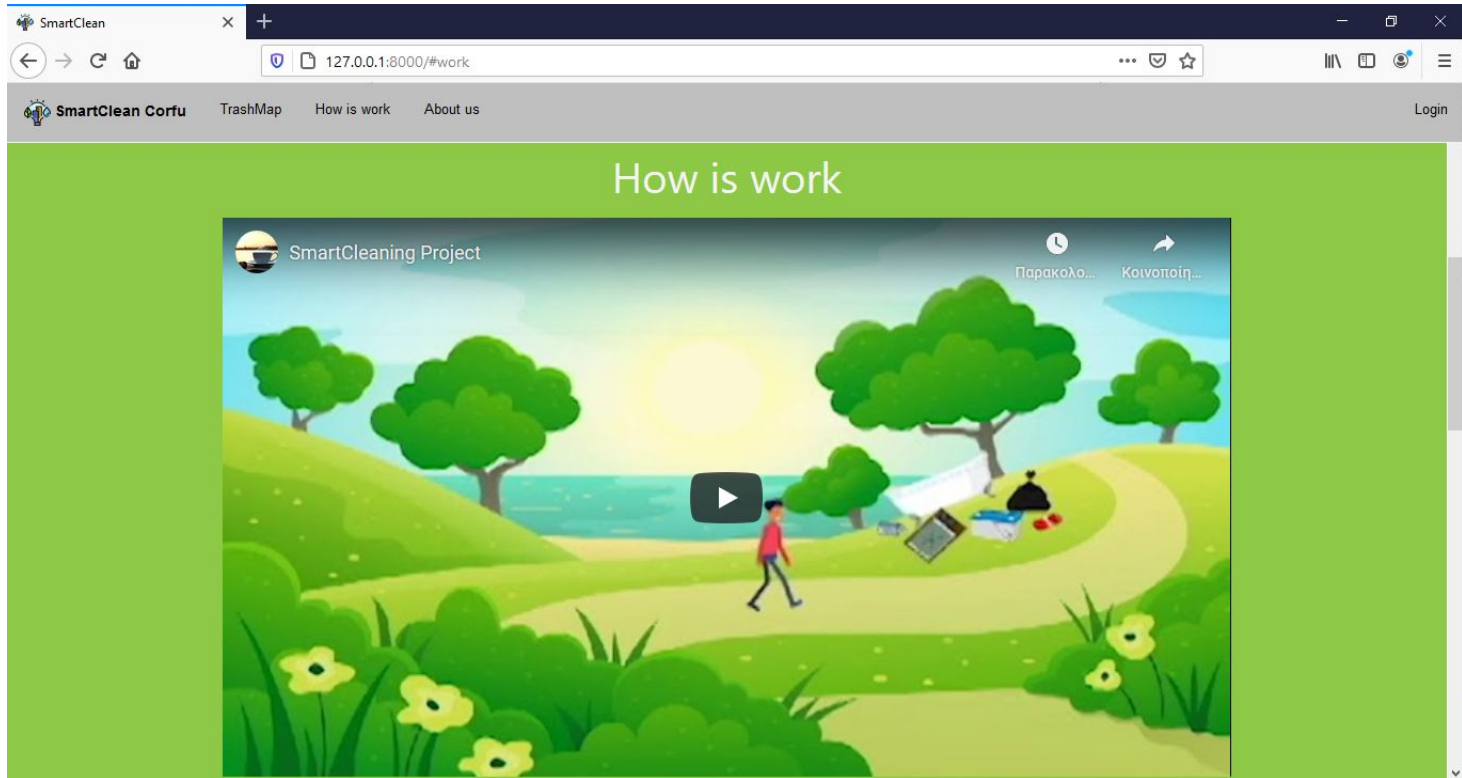
The **second part** is the **Cleaning Services** of the city (SuperUsers) where they will be able to follow the reports.

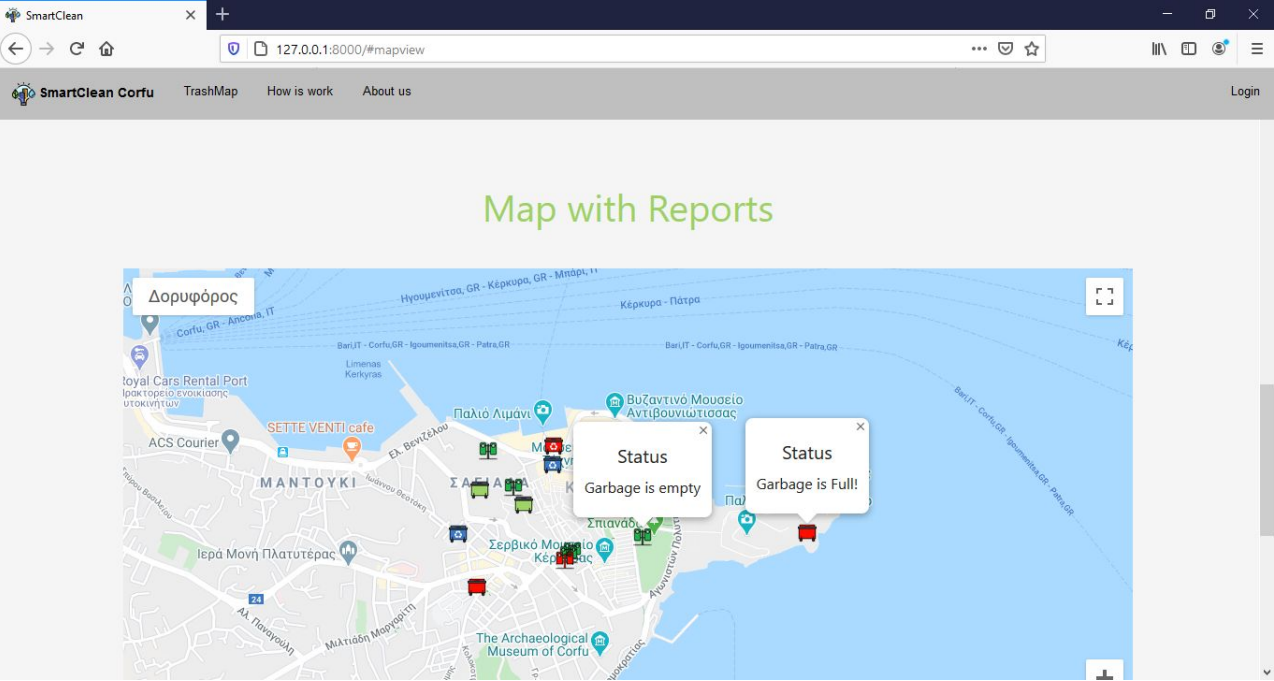
The **Cleaning Services** will clean the city smartly and quickly.

Citizen - User Interface - Homepage

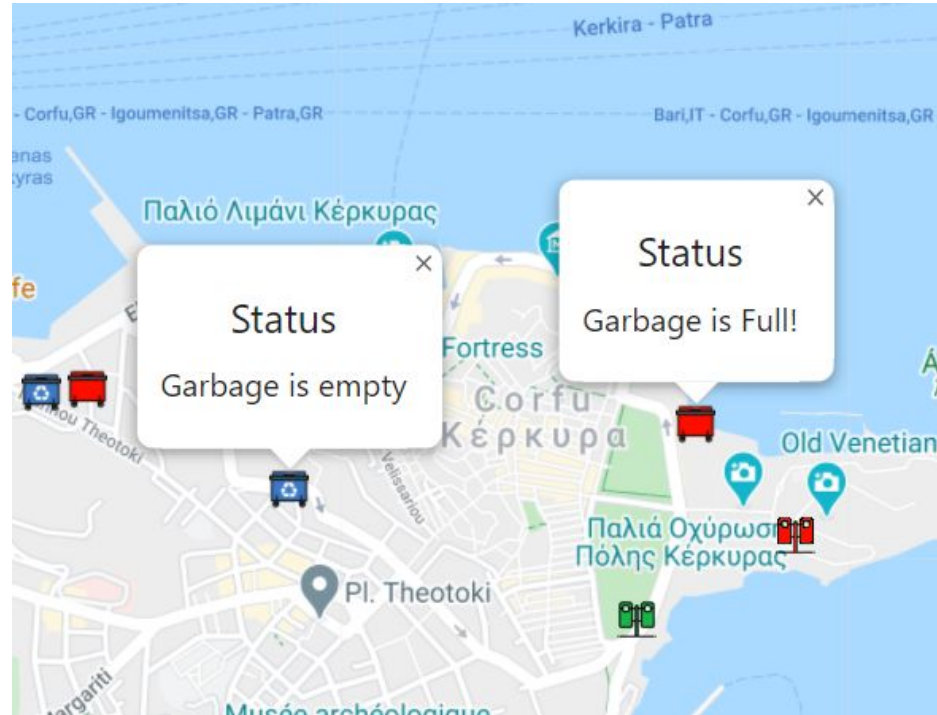


Citizen - User Interface - Homepage (2)





Citizen - User Interface - Homepage (4)





Citizen - User Interface - Homepage (5)

About us

Ονομάζομαι Αντρέας Γεωργίου με ΑΜ Π2016167, είμαι φοιτητής στο Τμήμα Πληροφορικής του Ιονίου Πανεπιστημίου Κέρκυρας.

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

My name is Andreas Georgiou with ID Π2016167, I am a student at the Department of Informatics of the Ionian University of Corfu.

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



Copyright © 2020 Andreas Georgiou. All rights reserved.



Citizen - User Interface- 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:

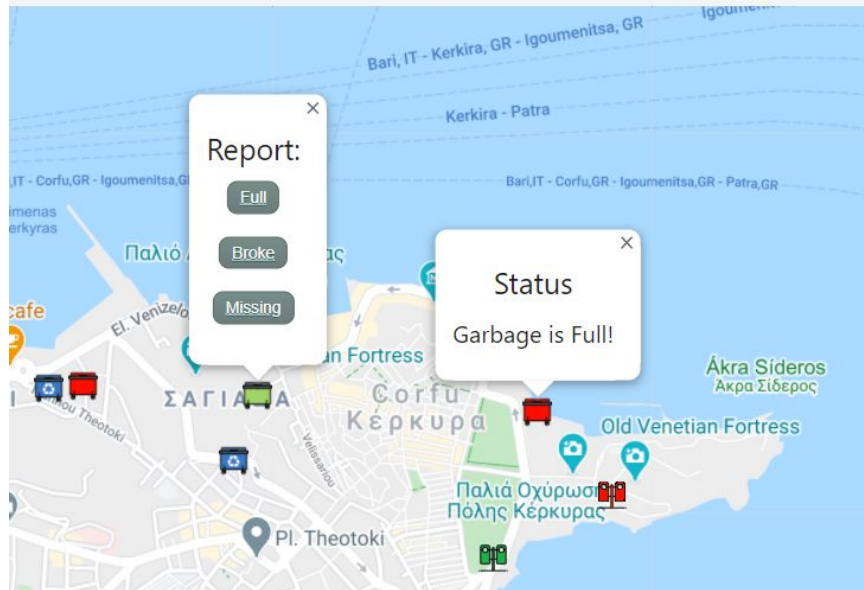
Password:

Login

Create an account

Citizen can report BUCKETS

Report the dumpster or bin!



Citizen can report RUBBISH (1)

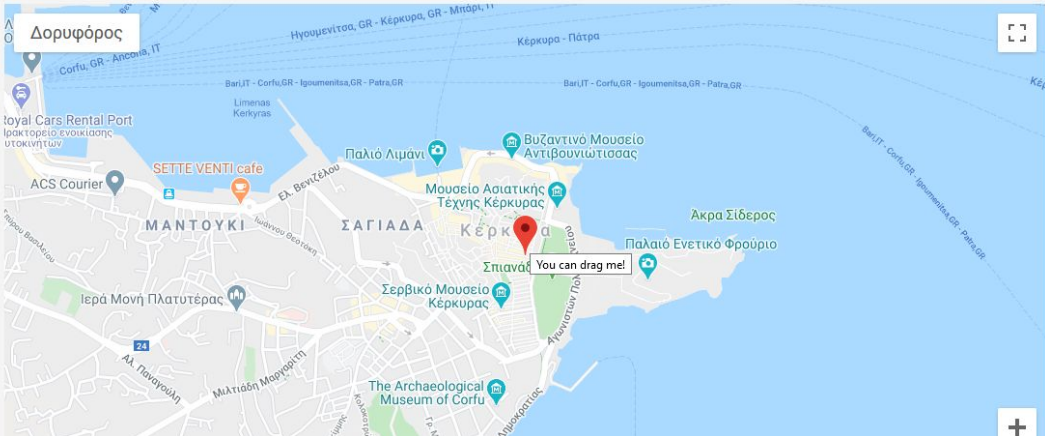
SmartClean

Hi andreas

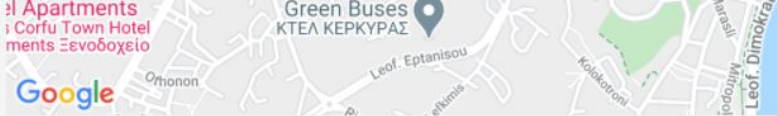
TrashMap Logout

Step 1

Drag the marker on the trash's location



Citizen can report RUBBISH (2)



A Google Map snippet showing a street grid in Corfu Town, Greece. Labels include 'Green Buses ΚΤΕΛ ΚΕΡΚΥΡΑΣ', 'Leof. Eptanisou', 'Kofakotoni', 'Leof. Dimokra', and 'Omonon'. A red location pin is placed on the map.

Step 2- Upload image, write description and send the request!

Select image: No file chosen

Description the status here...

About us



Citizen can request for addition new bucket (2)

Step 2- what kind of bucket do we need there ?

Dumpster: , Bin: , Recycle Dump: 

Choose a garbage type:

Select: ▼

Select:

Dumpster

Bin

Recycle Dumpster

Send the Request



The Cleaning Services of the city - **Part 2**

Cleaning Services - view the buckets status

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

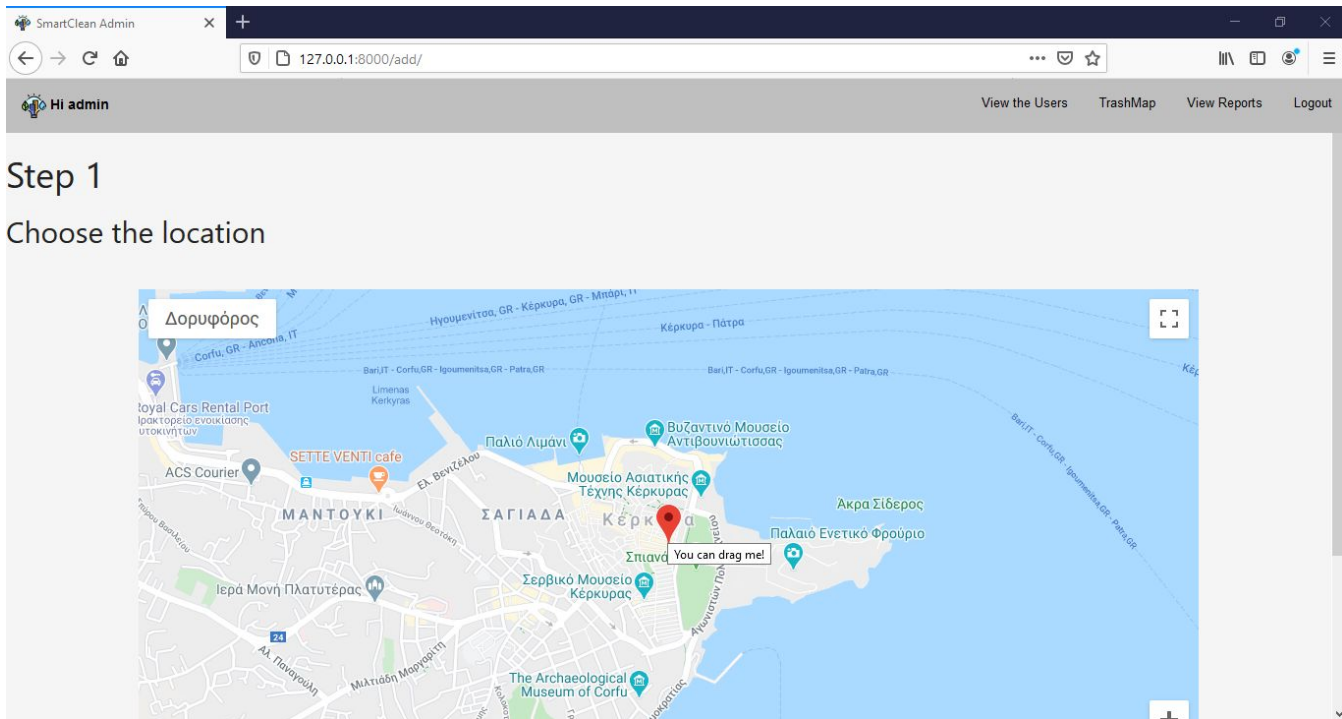
The main content area features a green heading: "View the Reports for the dumpster or bin!". Below this is a map of Corfu, Greece, with various locations marked. A search bar at the top left of the map contains the text "Δορυφόρος".

Two pop-up windows are visible over the map:

- Status:** A window with buttons for "Full", "Broke", "Missing", and "Delete".
- Status:** A window with the text "Report by [andreas]", "Garbage is Full!", and buttons for "Empty" and "Delete".

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

Cleaning Services- Add bins on map (1)





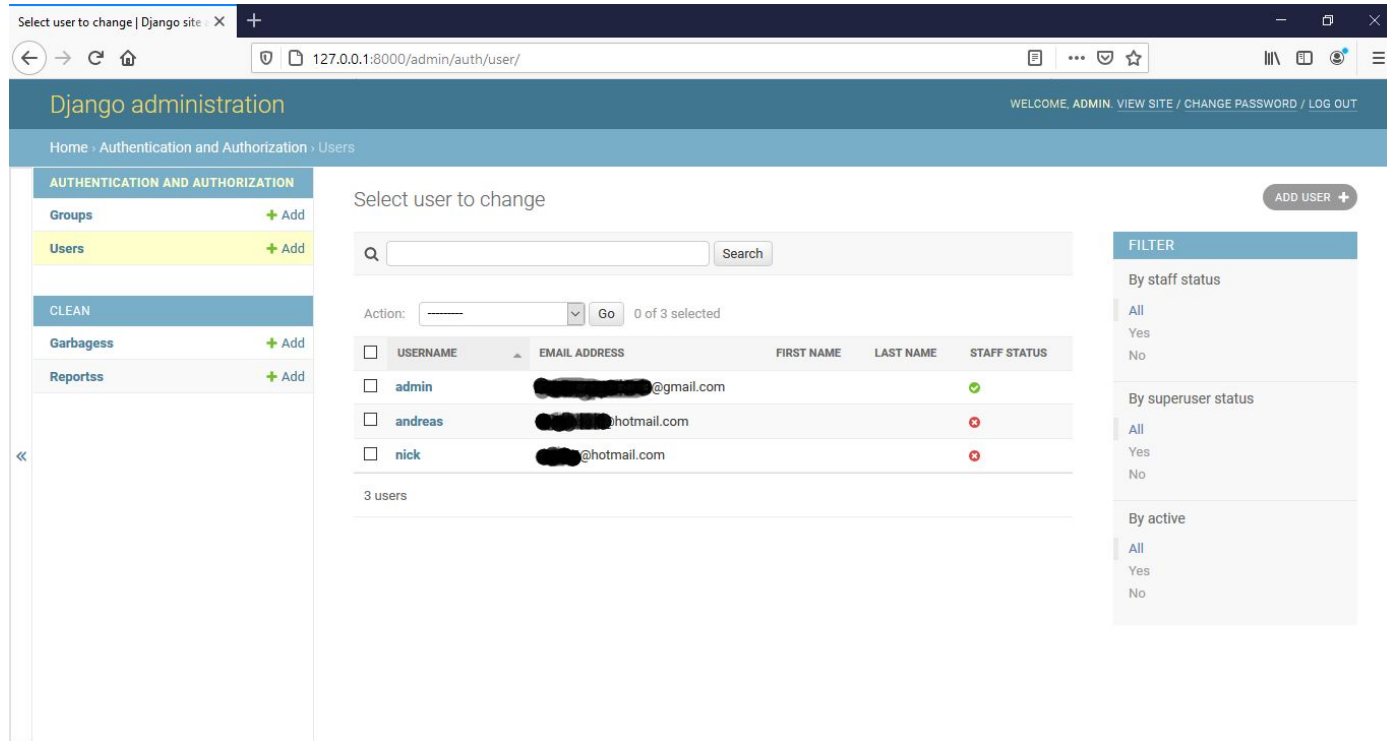
Cleaning Services - View the Reports

The screenshot displays the SmartClean Admin web application. The browser window shows the URL `127.0.0.1:8000/viewReports/`. The application header includes the user name "Hi admin" and navigation links: "View the Users", "TrashMap", "Add Garbages", and "Logout".

The main content area features the heading "View the Reports for trash from users" in green text. Below this is a map of Corfu, Greece. A report modal is open over the map, titled "Report from [andreas]". The modal contains a "Description:" label and a text input field with the value "Skoupidia". Below the input field are two links: "View the image" and "Delete".

The map shows various locations in Corfu, including "Δορυφόρος", "Αιμένος Ο.Λ.ΚΕ.", "Corfu, GR - Ancona, IT", "Limenas Kerkiras", "SETTE VENTI cafe", "ACS Courier", "MANTΟΥΚΙ", "Ιερά Μονή Πλατυτέρας", "Μιλτιάδη Μαργαρίτη", "The Archaeological Museum of Corfu", "Σερβικό Μουσείο Κέρκυρας", "Βυζαντινό Μουσείο Αντίβουνιώτισσας", "Ακρά Σίδερος", and "Παλιό Ενετικό Φρούριο".

Cleaning Services - 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

Cleaning Services - 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

Authentication and Authorization

- Groups + Add
- Users + Add
- CLEAN
 - Garbagess + Add
 - Reportes + Add

Change user

Username: andreas

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

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/

Authentication and Authorization

- Groups + Add
- Users + Add
- CLEAN
 - Garbagess + Add
 - Reportes + Add

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

Choose all Remove all

Specific permissions for this user. Hold down "Control", or "Command" on a Mac, to select more than one.

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.

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>