

SafeStreets

Software Engineering 2

Prof. E. Di Nitto

Amedeo Carrioli (866256) Andrea Ceruti (945604)





Collaboration with **authorities**



Keep citizens informed about violations and accidents

of the project Goals

Allow private users to send reports of street violations.

Allow both end users and authorities to mine the information stored.

2

The application must send suggestions to authorities.

The system **crosses** data with authorities.

4

Phenomena	Shared	Who controls it
Citizen notices a street violation and wants to reports it	N	W
Citizen wants to check the violations occurred in a specific area	N	W
Citizen takes a picture of the street violation	N	W
User confirms the anonymity request	Υ	W
Authority downloads data from SafeStreets	Υ	W
User checks his reporting history and personal information	Y	W
User wants to check a specific type of street violation that occurred in a specific area	Y	W
User allows SafeStreets to use his geographical position	Y	W
SafeStrees updates the map after every reporting received	Y	M
SafeStreets makes suggestions to send to authorities based on reliable parking violations received	Υ	M
SafeStreets stores the information sent from authorities	Υ	M
SafeStreets shows to the user the map filtered by type of violation and interval of time chosen	Y	M
SafeStreets recognizes the license plate from picture	N	M
SafeStreets stores all data received in its database	N	М



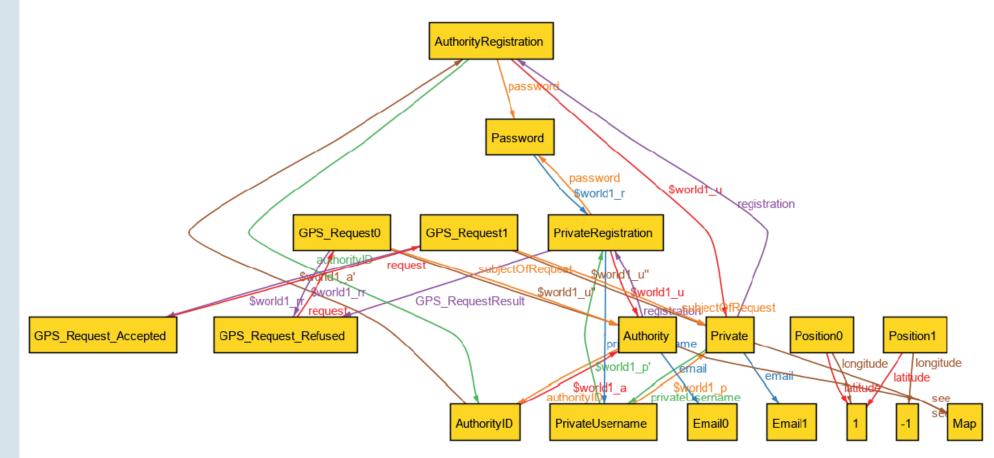
The system must allow the user to compile the reporting form with all the information required.

> The system must allow the user to choose to remain anonymous after every reporting.

The system colors the map based on the number of violations occurred for each zone.

The system crosses information received by the municipality with its own data.

The system generates suggestions based on reliable parking violations and sends them to authorities.



Devices used by users must provide an accurate GPS signal.

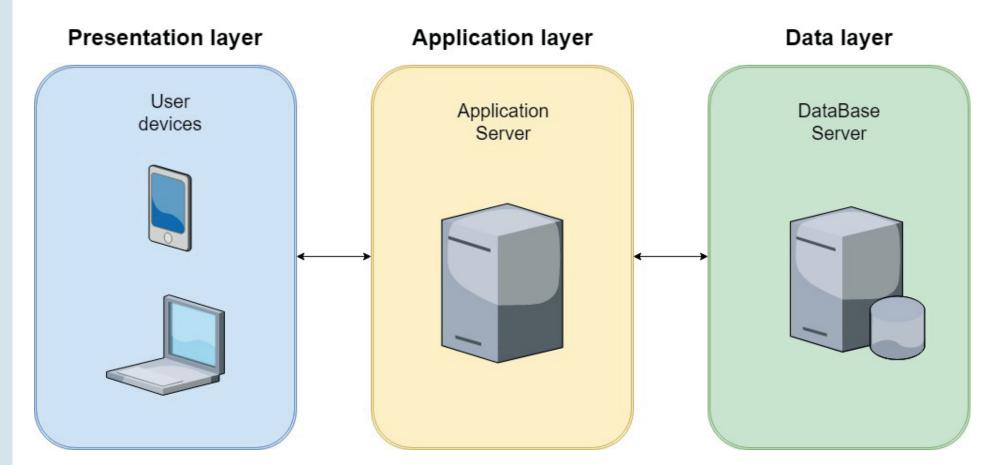
The user uses the application properly. Not making fake violations.

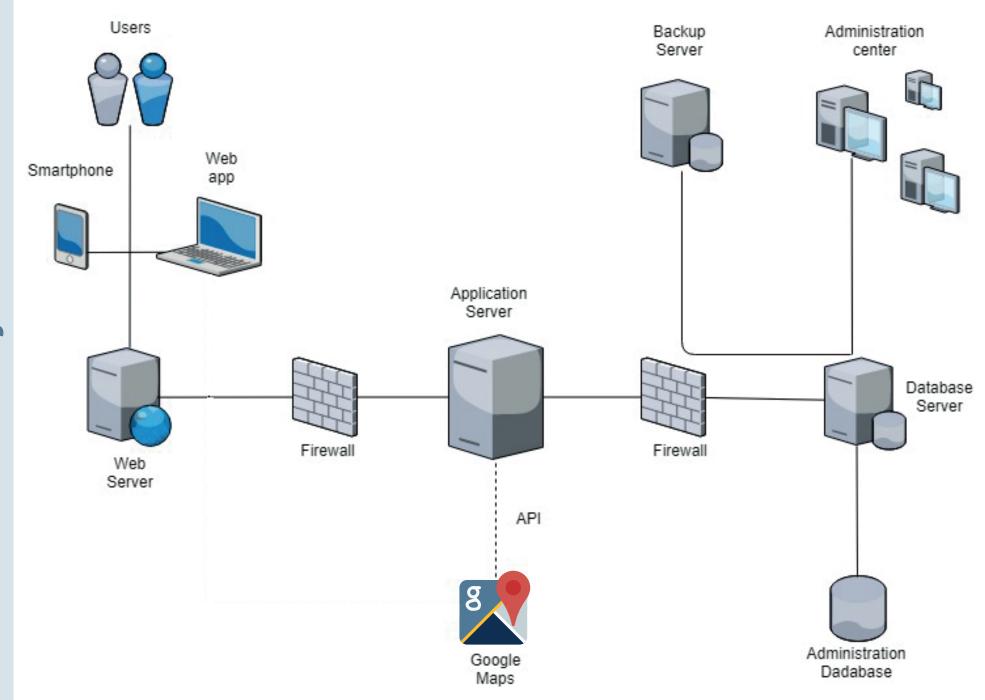
D6

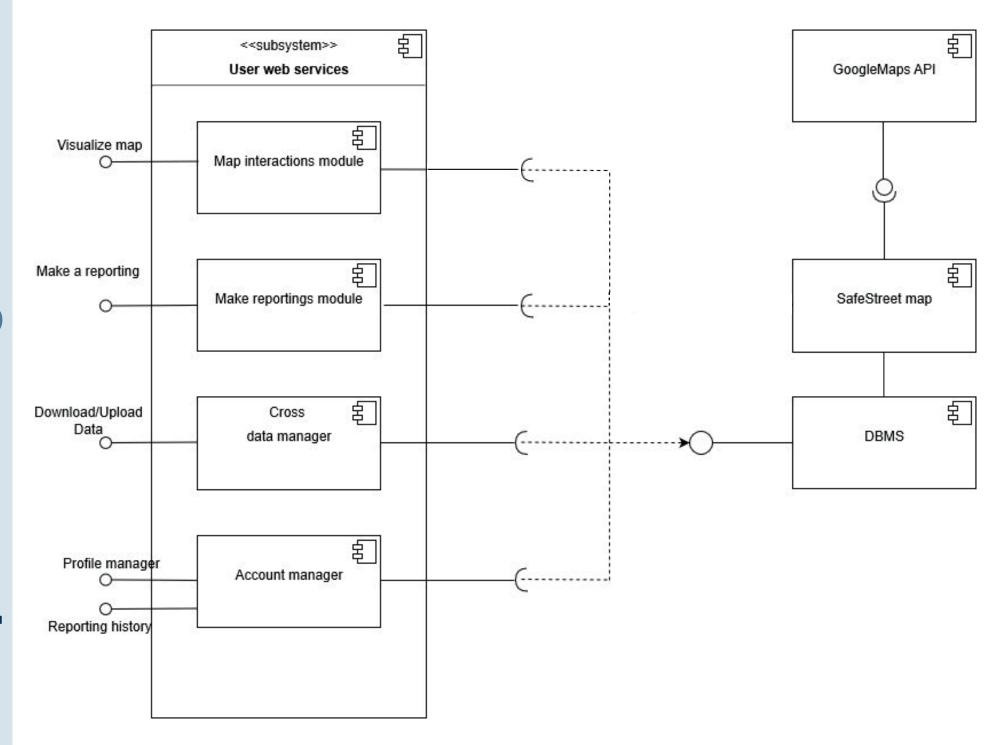
Authorities send reliable data.

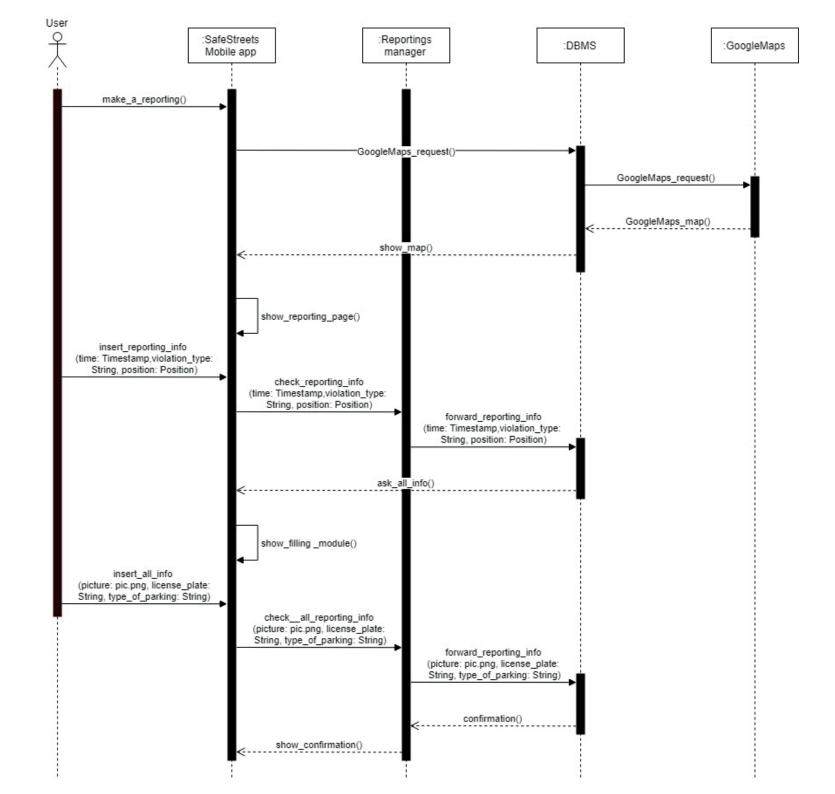
Internet connection stability.

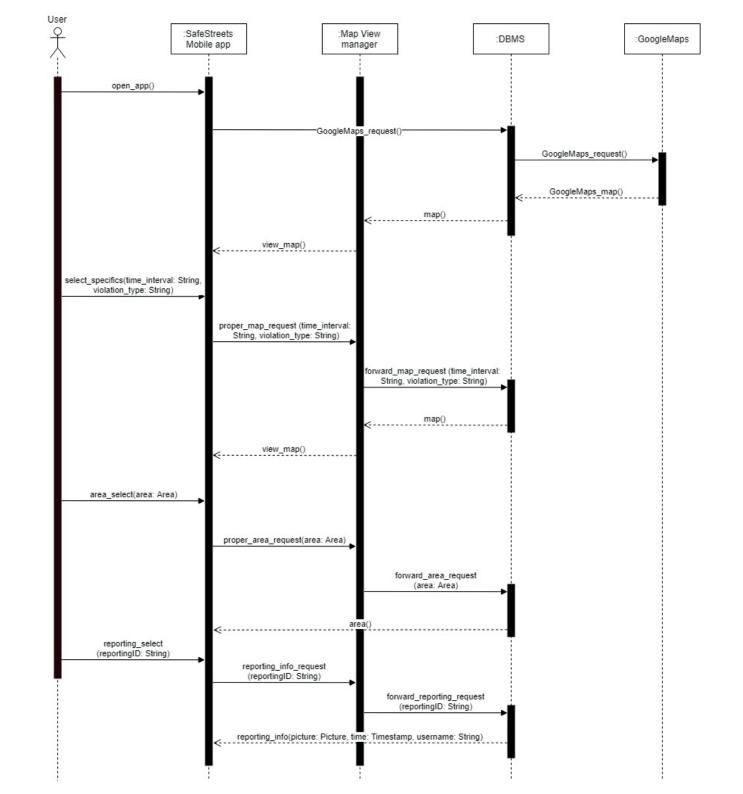
D11

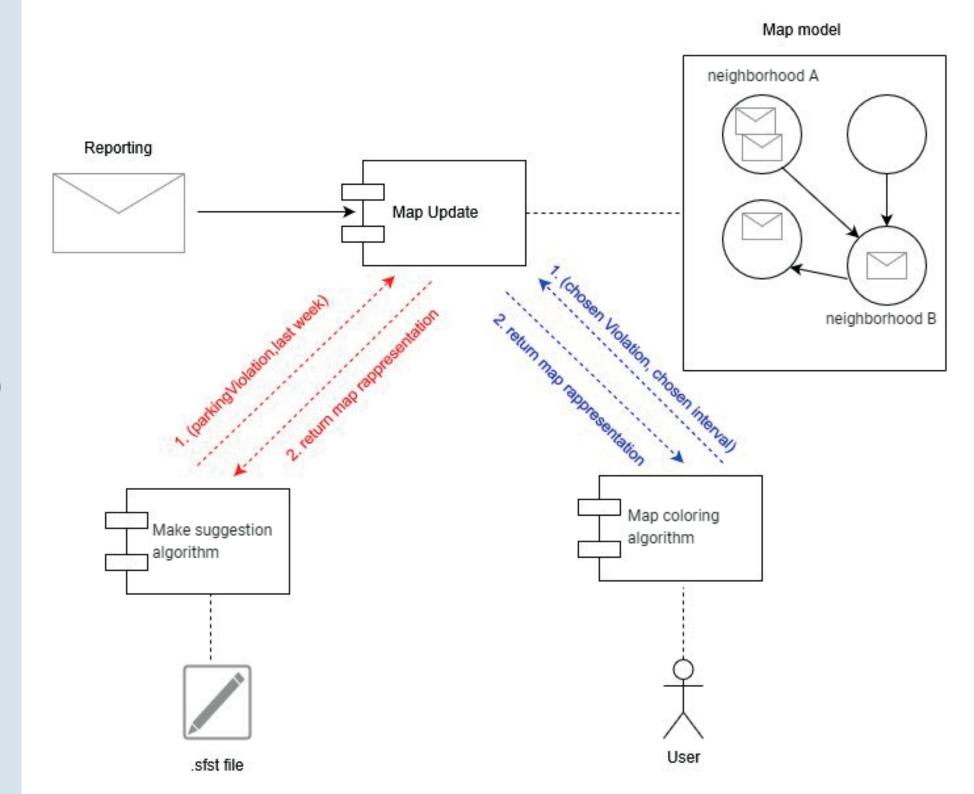














Bottom up strategy

Incremental integration

Incremental testing





Thank you for your attention