



FixMyCity

SOFTWARE REQUIREMENTS SPECIFICATION

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Introduction

AIM OF THE DOCUMENT

The following document contains a general description of the project developed.

OVERVIEW OF THE DEFINED SYSTEM

The purpose of our system is to encourage and facilitate the collaboration of citizens and public companies, to improve management and maintenance of the city and its infrastructures.

The system allows anyone to report a problem or write a proposal for the city. These reports can be directed to the community or to public or private companies.

If the report is aimed at the community, citizens can join an event as volunteers in order to fix the problem.

If a report is aimed at public companies, the system will automatically notify the company involved and they can approve or reject to work on it. In case of approval, they can keep citizens informed about any progress made.

Users interact with the software through an intuitive and minimal graphical interface which makes the map of the city its main focus, showing nearby reports or events. The system will be multi-user and multi-role, allowing different kinds of actions for citizens and companies.

OPERATIONAL SETTINGS

Required:

- S.O.: Windows 7 or greater, macOS 10.4 or greater, Android 2.3, iOS 6 or greater, any Linux distribution
- Internet connection
- 2GB of ram;

Optional:

- A GPS system (for automatic position detection)

RELATED SYSTEMS

IoSegnalo

IoSegnalo is a web application which allows citizens to collaborate with Local Rome Police by reporting problems or discomforts in the urban area.

Pros:

- Local Rome Police must provide a feedback about the report

Cons:

- Users can only see their own reports
- Users can't navigate through a map
- Users can report problems only to the Local Rome Police

PUMS Roma

PUMS Roma is a web application which allows citizens to propose projects about sustainable mobility and public transports, and it let citizens to vote and discuss about their proposals. The most voted projects can be scheduled by the municipality for realization.

Pros:

- It uses an interactive map for navigating through the proposals
- Users can comment and vote
- Proposals

Cons:

- Projects are only about sustainable mobility and public transports
- The municipality isn't forced to provide a feedback about the proposals
- Users can't organize themselves as volunteers

RomaToday Segnalazioni

RomaToday Segnalazioni is a simple section of the news website RomaToday, which allow users to send their reports about problems, car accidents, critical issues and events in the city of Rome.

Pros:

- Users can provide every detail about the report
- Users can interact and comment every report
- Every report has its own category

Cons:

- Users can't navigate through a map
- It's only a showcase of reports, with no volunteering and no contact with public authority

Together

Together is an app aimed to make it easier for citizens to participate in volunteering events. It allows to create and manage events, and for other people to join in.

Pros:

- Citizens can independently organize events to solve problems
- Citizens can join events and share pictures after it is concluded
- Integration with social media

Cons:

- The problems can only be solved by volunteers
- Companies are not involved at all

User Stories

Antonio D'Orazio

1. As a citizen, I want to join an active event, so that I can collaborate with volunteers to solve a reported problem.
2. As a citizen, I want to see the events I joined, so that I can remember where and when is the event.
3. As a citizen, I want to vote for a problem, so that I can report to the company which problem needs to be fixed as soon as possible

Francesco Fanali

1. As a public company, I want to see the suggested reports, so I can pick one of them.
2. As a public company, I want to approve or reject a report, so as to choose what interests me.
3. As a public company, I want to report the outcome of the work, so as to communicate it to the citizens.

Robert Adrian Minut

1. As a citizen, I want to see the reports in zone, so that I can be informed about any issues in my city.
2. As a citizen, I want to report a problem to the community, so that a group of volunteers can solve it.
3. As a citizen, I want to report a problem to the company involved, so that they work on it.

Functional Requirements

Antonio D'Orazio

1. The system shall provide a join function for users by displaying a join button on Community Reports*.
2. The system shall provide the ability for companies to accept or refuse to work on a Company Report*.
3. The system shall show in the homepage a map with all the reports stored in the database.

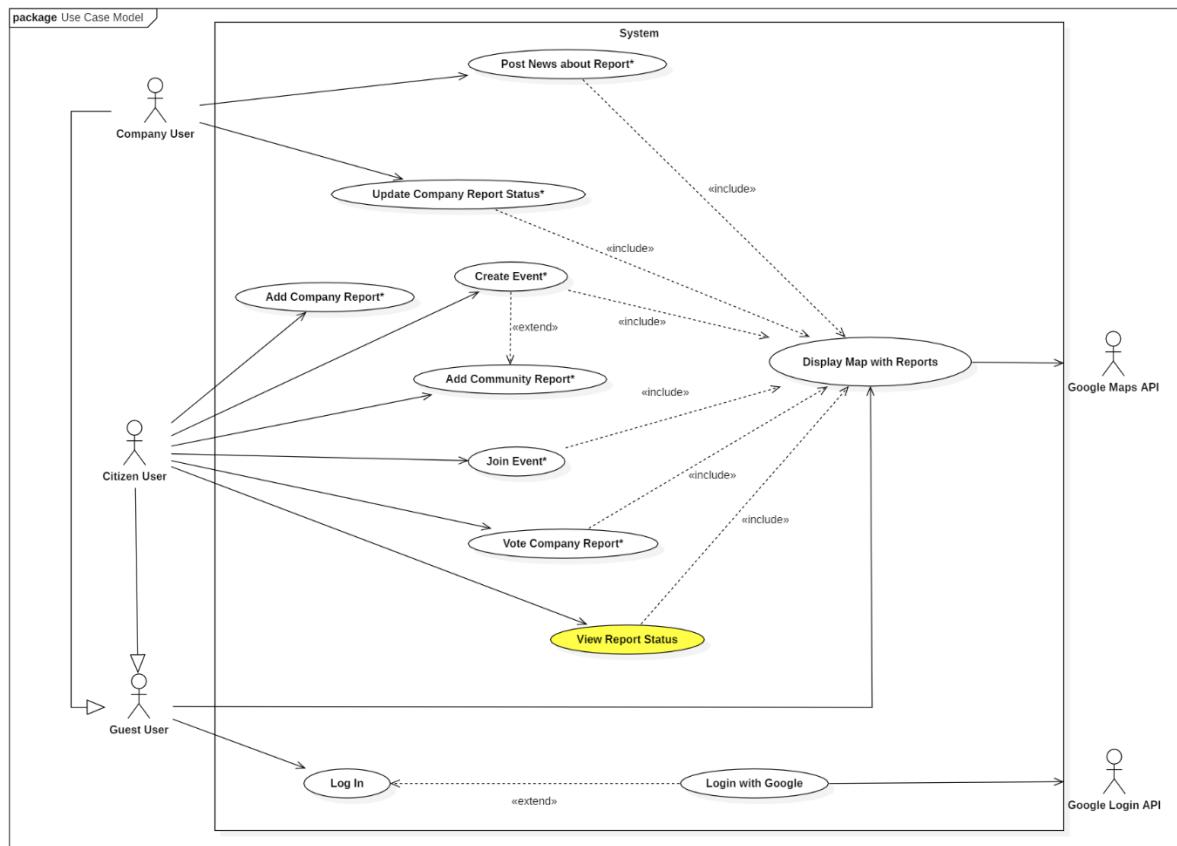
Francesco Fanali

1. The system shall receive reports from users and store them in the database.
2. The system shall use GPS to show the position of the citizen on the map.
3. The system shall provide the ability for users to upload pictures of an event they joined in.

Robert Adrian Minut

1. The system shall provide Citizen users* the ability to report a problem, requiring a position on the map of where the problem is located, a category and an optional description of the problem.
2. The system shall provide an upvote* system which will showcase Company Reports*, by ordering them based on the number of upvotes*, to Company users*.
3. The system shall provide a vote function for Citizen users* by displaying a vote button for Company Reports*.

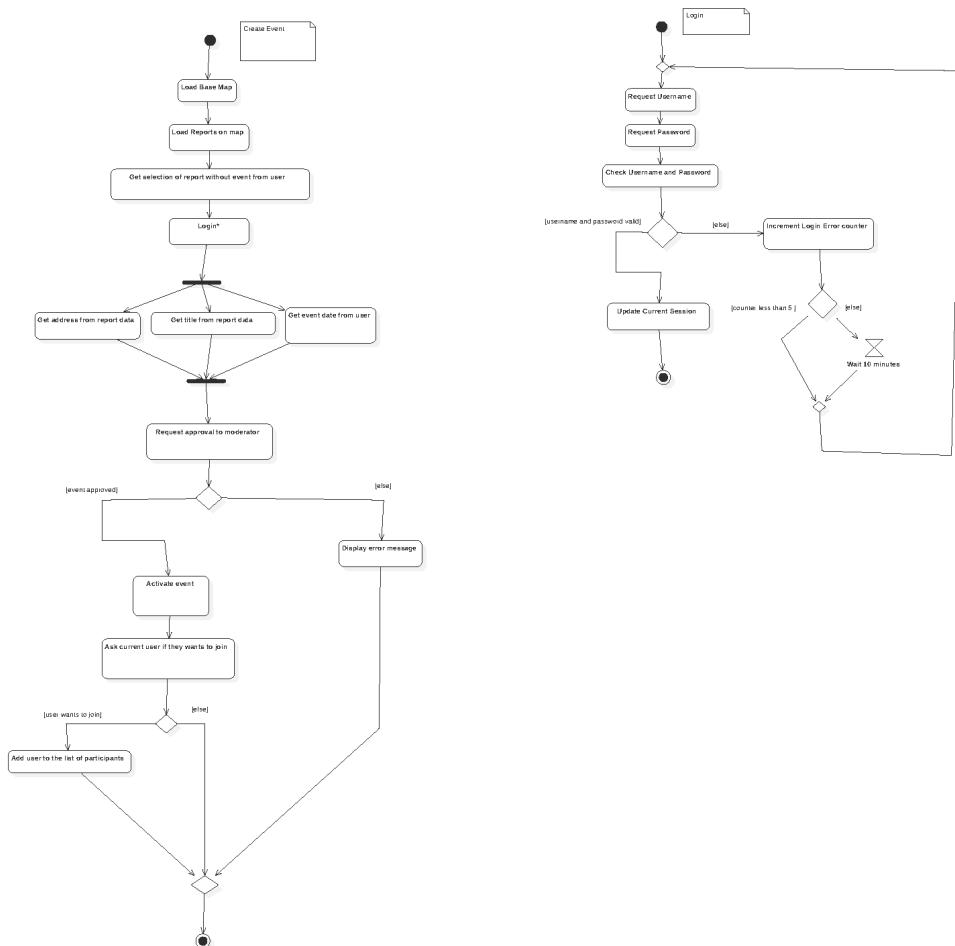
Use Cases



Activity Diagram

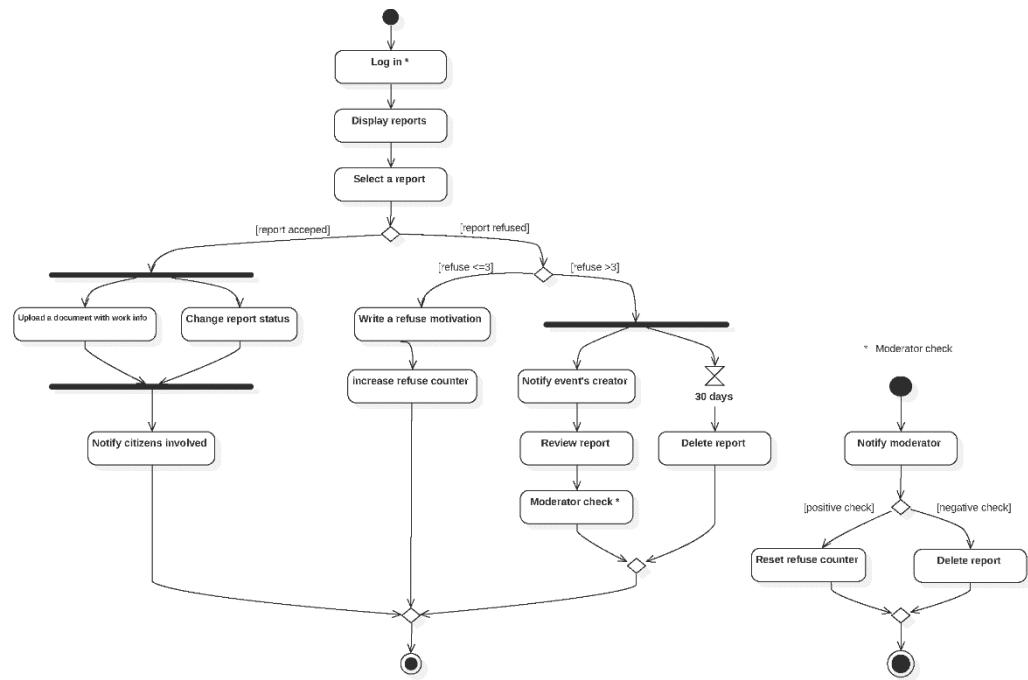
Antonio D'Orazio

Activity1::ActivityDiagram1

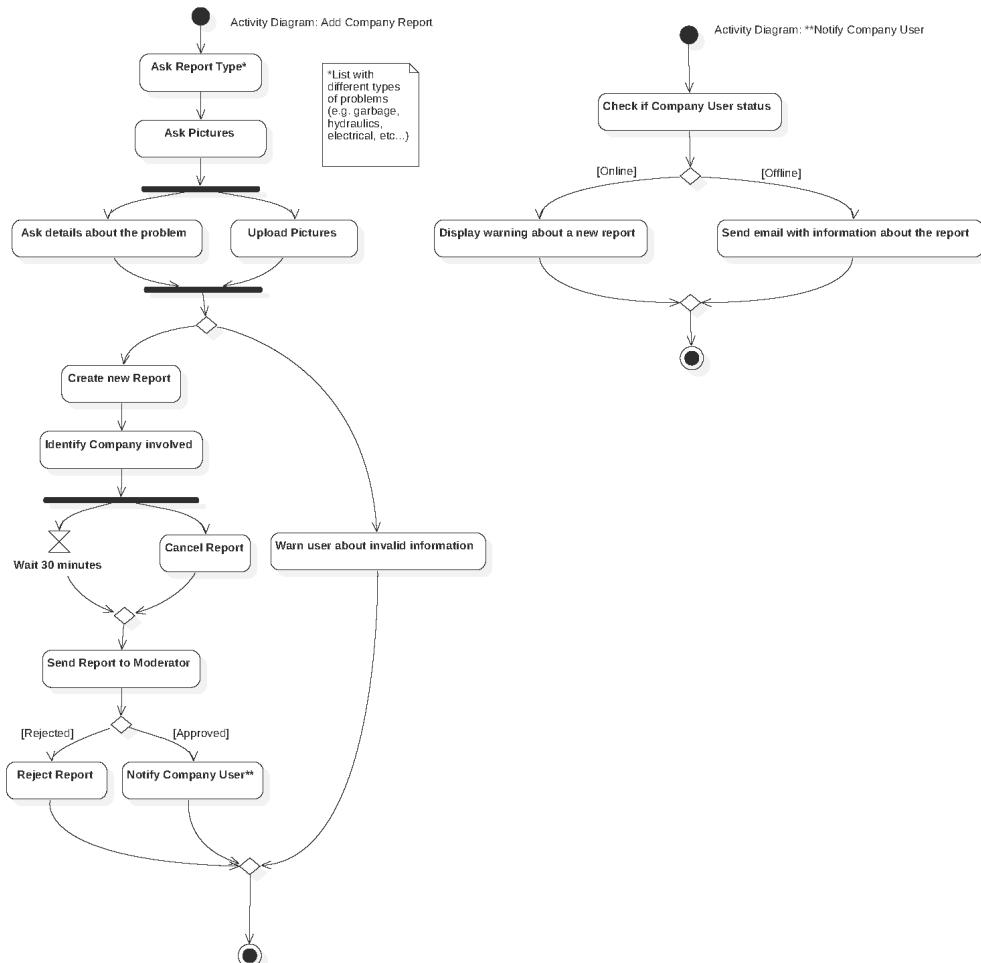


Francesco Fanali

Activity1::ActivityDiagram1



Robert Adrian Minut



SonarCloud

Link: https://sonarcloud.io/dashboard?id=progettoIspw2019_ProgettoIspw2019-20
[WIP]

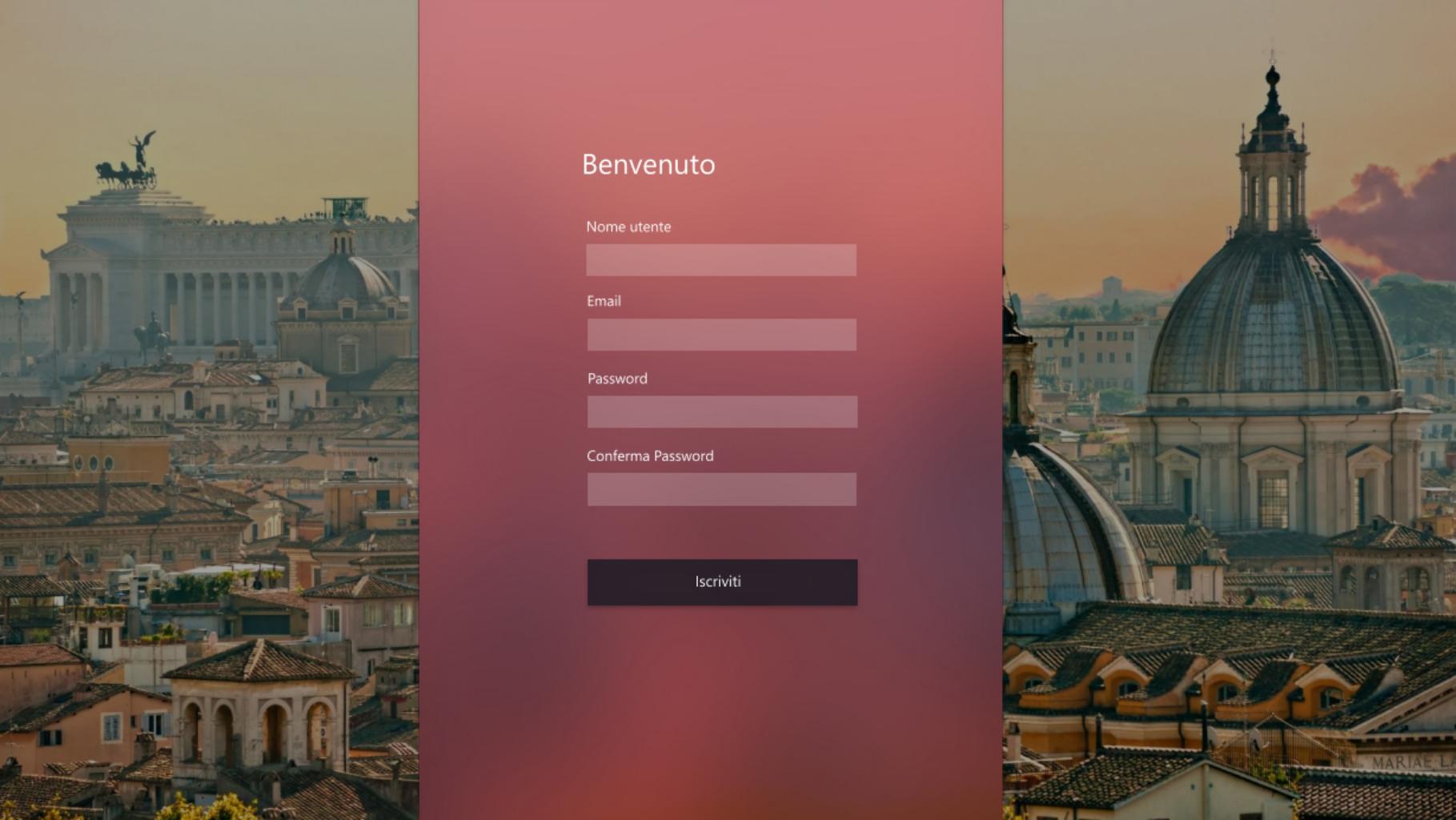


Fix My CITY

A better world, one neighborhood at time

Registrati

Login



Benvenuto

Nome utente

Email

Password

Conferma Password

Iscriviti

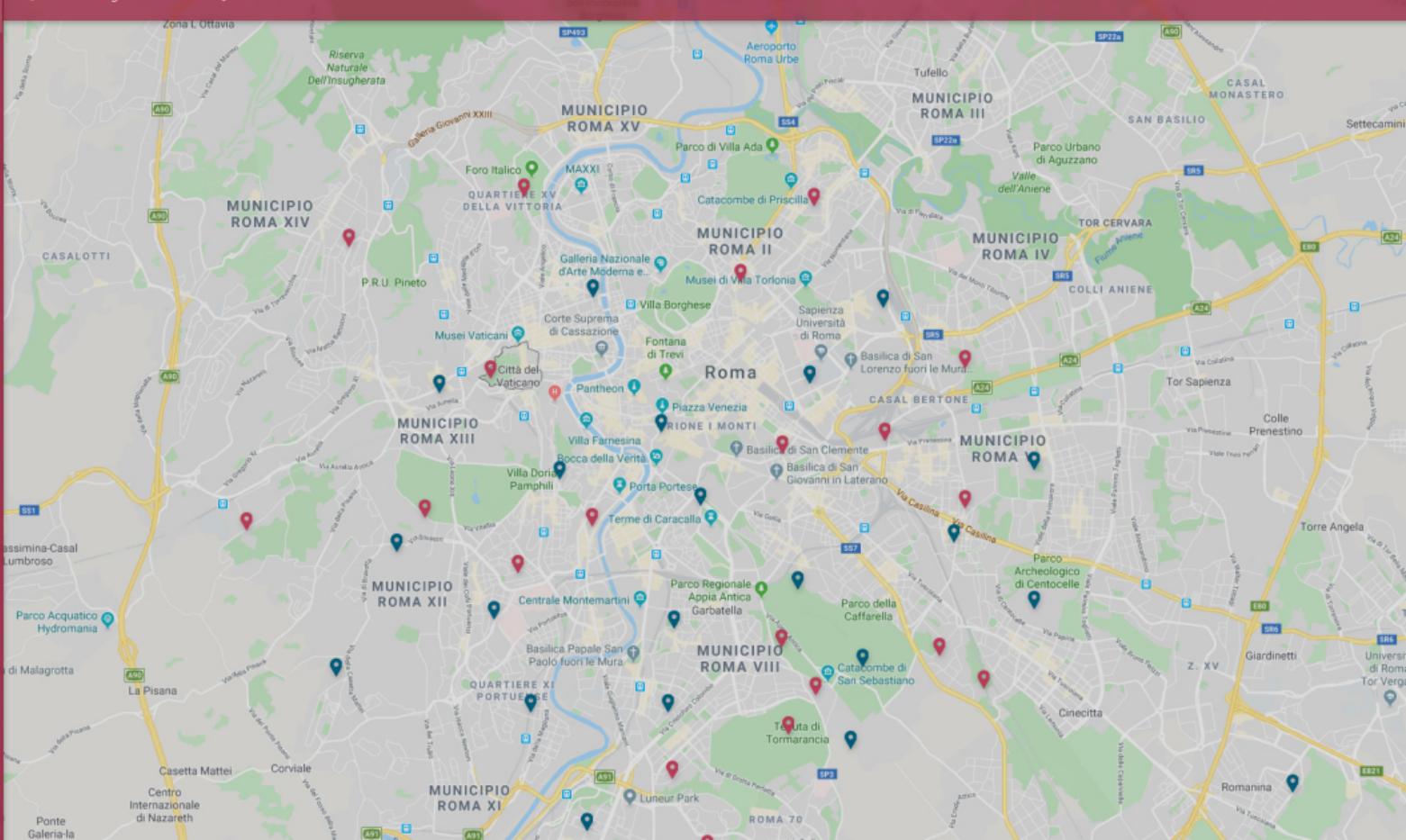
Mappa

Eventi

Segnalazioni

+ Nuova segnalazione

Cerca



Mappa

Eventi

Segnalazioni

Nuova segnalazione

Cerca

Monteverde Prima

UMTS Center Assistenza

Tecnica Autoprezzata

Strada dissestata

Buche lungo la strada che rendono molto pericoloso il passaggio in motorino

Cassonetti bruciati

Resti di cassonetti bruciati insieme al contenuto in plastica

Rifiuti lungo il tevere

Ammassi di rifiuti che deturpano il paesaggio naturale del fiume

Lungotevere di Pietra Papa, 25



AMA

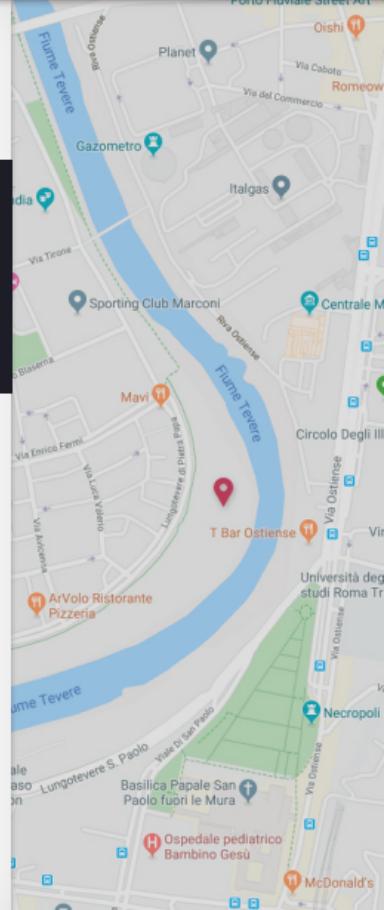
26 ottobre 2019

Sosta selvaggia

Auto parcheggiate ogni giorno in divieto di sosta

Affissioni abusive

Manifesti pubblicitari abusivi affissi negli esterni della stazione



Mappa

Eventi

Segnalazioni

Nuova segnalazione

Cerca

Monte Verde Prima

UMTS Center Assistenza
Tecnica AutoprezzataPizzetta Ristorante
la RomaComunicazioni
Informatiche

Ristorante Olimpo

Farmacia San Paolo
Di Patrizia Albertazzi

Al Biondo Tevere

T Bar Ostiense

Pulizia parco degli Acquedotti

Per ripulire il parco dai rifiuti lasciati a terra

Riverniciatura facciata palazzi Tuscolana

Per eliminare i graffiti

Taglio erba parco della Basilica di San Paolo

Appuntamento tra volontari per rendere migliore il parco antistante la basilica

Piazzale San Paolo, 1

36 partecipanti

9:30

26 ottobre 2019

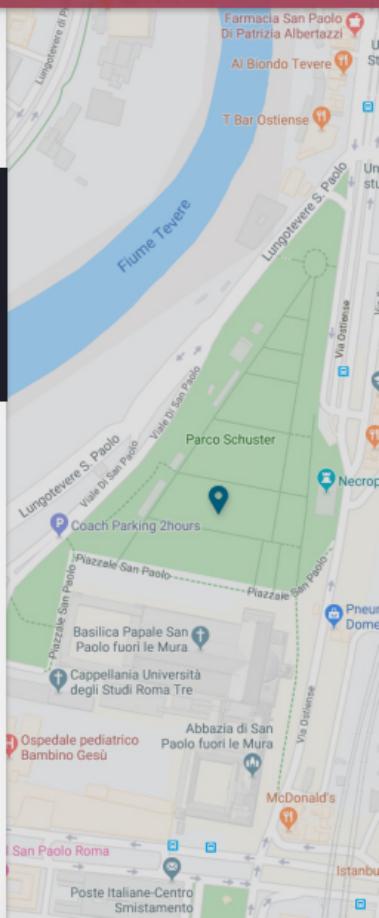


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Mappa

Eventi

Segnalazioni

Indietro

Nuova Segnalazione

Dove si trova il problema?

Lungotevere di Pietra Papa, 16

Di che cosa si tratta?

Rifiuti lungo il fiume

Quali sono gli altri dettagli importanti?

Lungo le sponde del fiume sono presenti cumuli di rifiuti che deturpano il paesaggio del fiume

La segnalazione è rivolta

 Alla comunità Agli enti locali

Foto del problema



Invia segnalazione