



POLITECNICO

MILANO 1863

Department of Computer Science and Engineering

Acceptance Testing Deliverable

(ATD)

SafeStreets

- v1.1 -

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1. Introduction

1.1 Purpose

Acceptance Test Delivery (ATD) document of SafeStreets software verifies that the system works as required and validates the main functionalities of the system. The main purpose of ATD is to evaluate if the implemented system in hands follows with the functional requirements SafeStreets is supposed to follow.

1.2 Tested project

The project (all documents and the source code) under consideration can be found on GitHub private repository:

<https://github.com/Marchingegno/MarcerMarchiscianaMotta>.

Authors of the projects are:

- Marcer Andrea
- Marchisciana Matteo
- Motta Dennis

1.3 References

These documents can be found on the repository of the tested application.

- RASD1.2.pdf. - 12.01.2020.
- DD1.2.pdf. - 12.01.2020.
- ITD1.0.pdf. - 12.01.2020.

1.4 Document Structure

The document is divided into the following chapters:

Chapter **2** explains the Installation setup in this section the steps followed to install and test the project will be discussed and explained.

Chapter **3** expands on the Acceptance test cases. All the tests run against the Software system and their outputs are discussed, to relate them with the functional requirements and goals (features) described in the RASD.

Chapter **4** includes any additional notes on the document's quality and/or the implementation of the system.

2. Installation Setup

2.1 Mobile App Installation

2.1.1. Download and install the SafeStreets Android Application The .apk of the application can be downloaded from here:

https://github.com/Marchingegno/MarcerMarchiscianaMotta/releases/download/Android-1.0.1/SafeStreets_1.0.1.apk

2.1.2 Download and install Android Studios and install an emulator through ADK manager inside android studios

2.1.3 Drag and drop the apk onto the emulator screen

2.1.4 Run the application and create a new SafeStreets account on first run

2.2 Web App Installation

2.2.1 go to : <https://safestreets-project.web.app/>

2.2.2 login using :

Email: polizia@milano.it

Password: safestreets

3. Acceptance test cases

3.1 Motivation

The aim of the test cases is to validate the final product before delivering it to the customer and give feedback to the developers to fix the errors generated from the test cases.

In the following test cases we will focus on the most important functionality of the web application and the mobile application , like registration , logging in and reporting violations.

3.2 Tested features

3.2.1 Mobile Application

[R1] A citizen not yet registered must be able to sign up and become a user.

- **A.1.1 Register**

Status: Success

Prerequisite: none

Expected output: register successful

Steps:

1. Launch application
2. Fill the field Email with a valid email
3. Fill the field Password with a valid password

Actual output: registers and takes you to main menu

[R2] The application must allow users to authenticate through log in.

[R3] The application must allow users to report a violation.

- **A.2.1 Login**

Status: Fail

Prerequisite: none

Expected output: Error message stating that login credentials are incorrect

Steps:

1. Launch application
2. Fill the field Email with an invalid Email
3. Fill the field Password with an invalid password

Actual output: Error message stating that login credentials are incorrect

- **A.2.2 Login**

Status: Success

Prerequisite: already registered

Expected output: login and go to main menu

Steps:

1. Launch application
2. Fill the field Email with a valid email
3. Fill the field Password with a valid password

Actual output: login and go to main menu

- **A.2.3 Logout**

Status: Success

Prerequisite: already logged in

Expected output: go to login screen

Steps:

1. Launch application
2. Press the logout button

Actual output: go to login screen

[R3] The application must allow users to report a violation.

[R8] The application creates a violation report with at least one picture, exactly one timestamp, exactly one location, exactly one type of violation and the license plate of the vehicle

[R13] The system must analyze valid violations report and approve which of them may represent a correct violation. (Partial Test)

- **A.3.1 Report violation**

Status: Fail

Prerequisite: logged in and on report page

Expected output: Error message stating that a license plate is required

Steps:

1. Launch application
2. Login
3. Go to Report Violation
4. Try reporting a violation without filling in the license plate field

Actual output: Error message stating that a license plate is required

- **A.3.1 Report violation**

Status: Fail

Prerequisite: logged in and on report page

Expected output: Error message stating that the format of the license plate is wrong

1. Launch application
2. Login
3. Go to Report Violation
4. Try reporting a violation with a non italian license plate number

Actual output: Error message stating that the format of the license plate is wrong

- **A.3.3 Report violation**

Status: Fail

Prerequisite: logged in and on report page

Expected output: Error message stating that a picture is required

Steps:

1. Launch application
2. Login
3. Go to Report Violation
4. Try report Violation without taking a picture

Actual output: Error message stating that a picture is required

- **A.3.4 Report violation**

Status: Fail

Prerequisite: logged in and on report page

Expected output: Error message stating that a picture with a license plate in it is required

Steps:

1. Launch application
2. Login
3. Go to Report Violation
4. Try report violation taking a picture without a car in it

Actual output: Error message stating that a picture with a license plate in it is required

- **A.3.4 View user reports**

Status: Success

Prerequisite: logged in, reported a violation, on main menu page

Expected output: A list of reported violations made by the user

Steps:

1. Launch application
2. Login
3. Click on My reports

Actual output: A list of reported violations made by the user

- **A.4.1 Search Safestreets Data**

Status: Success

Prerequisite: Login

Expected output: Violations shown on a map

1. Launch application
2. Click Safestreets data
3. Search a location
4. Filter what type of violations and time range you would like to see

Note: since we could not actually report a violation successfully (see 4. additional notes) we could not find the violations because we did not know where they were. However after looking at the website and seeing where the reported ones were we looked at that location and found them (Duomo Area)

Actual output: Violations shown on a map

3.2.2 Web Application

- **B.1.1 Login**

Status: Fail

Prerequisite: none

Expected output: Wrong email or password

Steps:

1. Launch web application
2. Fill in the email and password fields with invalid email and password details
3. Press Login

Actual output: Wrong email or password

- **B.1.2 Login**

Status: Success

Prerequisite: be given a login details by safestreet

Expected output: Login and go to main page

Steps:

1. Launch web application
2. Fill in the email and password fields with valid email and password details
3. Press Login

Actual output: Login and go to main page

- **B.1.3 Logout**

Status: Success

Prerequisite: Already logged in

Expected output: go to login

Steps:

1. Launch web application
2. Press the logout button

Actual output: go to login

- **B.2.1 Accept Violation**

Status: Success

Prerequisite: Login

Expected output: Updated status to accepted message displays

Steps:

1. Launch web application
2. Login click on a violation to accept/reject
3. Click accept when on the violations page

Actual output: Updated status to accepted message displays

- **B.2.1 Reject Violation**

Status: Success

Prerequisite: Login

Expected output: Updated status to rejected message displays

Steps:

1. Launch web application
2. Login and click on a violation to accept/reject
3. Click reject when on the violations page

Actual output: Updated status to rejected message displays

- **B.3.1 Display Data**

Status: Success

Prerequisite: Login

Expected output: Violations and information displayed on a map based on filter of location, license plate, date range

1. Launch web application
2. Login
3. Click display data
4. Filter in the fields you would like to filter the data by

Actual output: Violations displayed on a map based on filter of location, license plate, date range

4. Additional notes

- Due to the lack of fully implementation of uploading pictures functionalities of the mobile app we were not able to create a lot of test scenarios from the user side
- Since we do not own an android device we were only able to test on an emulator, the issue with this is ,since the app only allows the user to take a picture and not upload one, we were not able to actually report a violation successfully as you cannot take an actual picture of a car from the emulator.
- Furthermore since we could not report a violation we could not search for anything specific on the Safestreets Data page
- The groups ITD document needs updated as the requirements implemented are not in sync with that has actually been implemented