Software Engineering 2

TrackMe

Acceptance and Test Document

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Contents

1 Introduction

1.1 Purpose and Scope

This Document represents the Acceptance Test Document for the TrackMe project. The purpose of this document is to evaluate the system's compliance with respect to user needs and the functional requirements specified in the RASD.

1.2 References

For the acceptance tests we have considered these reference documents:

- **RASD**:Requirements Analysis and Specification Document;

- **DD**: Design Document

- **ITD**: Implementation and Testing Document;

1.3 Overview

The rest of the document is organized in this way:

- **Project**:contains the identification of the project we have analysed;

- **Installation Setup**: explains what we did to install the prototype of the tested project as well as any problem or incoherency we have found following the provided documentation;

- **Acceptance Tests**: lists the acceptance test cases we have applied and the corresponding outcome.

2 Project

2.1 Project info

These are the details about the project we have tested:

Authors

- Andrea Constantin Scutariu 833370

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- Sergio Piermario Placanica 916702

Links

- Git Repository: link.

3 Installation Setup

A description of the installation process of the prototype is presented in the following subsections.

Downloaded files

Here follows a list of the tools needed to run the prototype:

- Node JS v-11.6.0

- npm v-6.5.0 (Node Package Manager)

- Flutter v-1.0.0

- Dart v-2.1.0

- JDK 8

- adb (Android Debug Bridge)

- kvm (Kernel-based Virtual Machine)

- Android Studio

- Android 8.0 Oreo (API 26)

Installation

As advised in the instructions, the installation has been tested in a linux environment (Ubuntu 16.04). The installation process can be divided into three parts:

- back-end server;

- smartphone app;

- wearable device;

The path to run the **back-end server** is simple and straightforward. It is just needed to fully execute step by step the instructions provided into sections 6.1 of the ITD document.
On the contrary, the instructions provided to install the smartphone application and the wearable device lack some useful information to be easily executed by someone who has never worked with Android before.
To run the **smartphone application** is required to use an Android smartphone

and to enable the debug mode on it. After having enabled the debug mode on the phone and having connected the phone to the notebook trough USB, the execution of the instructions in the section 6.2 of the ITD document allows a correct installation of the application on the smartphone.

To run the **wearable application** is also required to install the tool kvm (Kernel-based Virtual Machine) and to enable the virtualizazion technology from the notebook's BIOS. Further, it is required to have a specific version of Android to run the application (in this case Android 8.0 (API 26)). Though, after the previous technical measures the sequence of instructions provided in section 6.3 of the ITD document works well.

Conclusion

The installation instructions are generally correct and allow a user who has a minimum of confidence with the development of Android applications a quick configuration of the entire system.

However, in order for the instructions to be performed by a beginner it is advisable to integrate them with additional information on the configuration of the smartphone and the computer for a smoother execution of the whole process.

4 Acceptance Tests

Third Party

The tests regarding the Third Party have been conducted through the use of the API development environment Postman, since the authors have not developed any interface for that.
The following tables include all the API requests we have tested for what concerns the Third Party side:

Sign Up - POST

Body	Expected outcome	Result
-Filled all the fields correctly -Select the company VAT -Select the company name -Select the company image -Select the company businessSector	Registration successful	Passed Warning: the application also accepts VAT code of less than 11 characters. May be incoherent.
-Missing VAT or Company Name	Registration unsuccessful	Passed
-Already registered VAT	Registration unsuccessful	Passed

Specific Request - POST

Body	Expected outcome	Result
-Filled all the fields correctly -Inserted existing SSN	Request registered	Passed
-Missing SSN	Request unsuccessful	Passed
-SSN already in charge of my previous request	Request unsuccessful	Passed

Group Request - POST

Body	Expected outcome	Result
-Filters written correctly	Request registered	Passed Warning: Same requests can be resent again
-No filters	Request registered	Passed Warning: Doubts on its usefulness

List Specific Requests - GET

Body	Expected outcome	Result
-None	Specific requests retrieved	Passed

Specific Request Data - GET

Body	Expected outcome	Result
-Id of a request sent by me (third party)	Specific request retrieved	Passed
-Id of a request sent by another company	Specific request not retrieved	Passed
-Id of a non existing request	Specific request not retrieved	Passed

List Group Requests - GET

Body	Expected outcome	Result
-None	Group requests retrieved	Passed

Group Request Data - GET

Body	Expected outcome	Result
-Id of a request sent by me (third party)	Group request retrieved	Passed
-Id of a request sent by another company	Group request not retrieved	Passed
-Id of a non existing request	Group request not retrieved	Passed

Subscribe Specific Request - POST

PROBLEMA per questa e la subscribe per la group request, cercate di capire cosa è il forwardingLink, di cui riporto sotto la descrizione presa da swaggerUI (lasciando il loro campo pre-impostato 127.0.0.1:1337 mi dice: "can not communicate with http://127.0.0.1:1337"):

forwardingLink *

string (formData)

Link/address of a reachable web service to which newly collected data will be sent. HTTP POST method will be used, and the listening web service will need to respond to every POST request with a 200 status code, otherwise the subscription will not be activated or will be disabled.

Body	Expected outcome	Result
-Request Id and forwardingLink inserted correctly	Subscription registered	Passed
-Id of a request not sent by me (third party)	Subscription not registered	Passed
-Not existing request Id	Subscription not registered	Passed
-ForwardingLink not valid	Subscription not registered	Passed

Unsubscribe Specific Request - POST

Body	Expected outcome	Result
-Request Id inserted correctly	Subscription registered	Passed
-Id of a request not sent by me (third party)	Subscription not registered	Passed
-Not existing request Id	Subscription not registered	Passed

Subscribe Group Request - POST

Body	Expected outcome	Result
-Request Id inserted correctly	Subscription registered	Passed
-Id of a request not sent by me (third party)	Subscription not registered	Passed
-Not existing request Id	Subscription not registered	Passed

Unsubscribe Group Request - POST

Body	Expected outcome	Result
-Request Id and for-wardingLink inserted correctly	Subscription registered	Passed
-Id of a request not sent by me (third party)	Subscription not regis-tered	Passed
-Not existing request Id	Subscription not regis-tered	Passed
-ForwardingLink not valid	Subscription not regis-tered	Passed

Individual

The tests regarding the Individual have been conducted through the use of the Android App provided by the authors...TO BE REVISED
The following tables include all the requests we have tested for what concerns the Individual side:

5 Conclusion

QUALCOSA DI SIMILE A QUESTO

The application is working as expected and, aside for the few issues high- lighted above, all the features described in the ITD are present and usable. While this problems need to be addressed in future versions, they also represent fringe cases that hinder the user experience in a marginal way, therefore, as of right now the application constitutes a working prototype. The user interface is clear and essential, and makes a positive impact the first time you open the application. The initial setup is a nice solution to illustrate the app functionalities and to gather and set user preferences. Future updates should focus on improving the ANONYMOUS REQUEST since this is one of the core features of the application.