POLITECNICO
MILANO 1863

TrackMe
Software Engineering 2 Project
ATD Document

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Contents

1 Introduction

1.1 Purpose and Scope

The Acceptance Test Document has the purpose of evaluating the adherence of the implementation with respect to the documents previously delivered.
To do so, we have considered the three documents available in the provided repository.

1.2 Reference

As said above, we used the three documents, as referenced below:

- RASD Document : Requirements Analysis and Specification Document
  - v1.2 - 12/01/2019
- DD Document : Design Document
  - v1.1 - 12/01/2019
- ITD Document: Implementation and Testing Document
  - v1.0 - 13/01/2019

1.3 Overview

2 Project

2.1 Project info

3 Installation Setup

3.1 Backend

3.1.1 Installation and launch

We have installed the backend as explained in the ITD Document, with the only exception of the particular system dependent command (we tested it on macOS).
We have installed the following module with *"brew"* command:

- **PostgreSQL** an open source object-relational database system
  - installed with the command : *brew install postgresql*
- **NodeJS** an asynchronous event driven JavaScript runtime
  - installed with the command : *brew install nodejs*

After the launch of the postgres service with the command : *brew services start postgresql*, we create a new database and a new role for the admin user.
Then, with the new role just created we import the dump of the database provided in the Implementation folder of the previously mentioned repository. As last step we have configured the *"start.sh"* file with the following configuration and we launched it with the command *"node app.js"*.

```
TEST_API="enabled"
DATABASE_URL="postgres://admin:password@localhost:5432/test"
JWT_SECRET="E9ql4cmZzDNG9qL8xh6F"
MAIL_PROVIDER="gmail"
MAIL_ADDR="mail@prova.it"
MAIL_PASSWD="pass"
LOCAL="enabled"
PORT=12345
HOST="localhost:${PORT}/v1"
MIN_USER_NUMBER=2
```

1

3.1.2 Conslusion

We didn't encounter particular issues, the guide lines are clear and enough explicative.
The only thing which makes sense to be mentioned is one error encountered during the database connection. It always responds with "message: role //-password// does not exists". This is due to a small error in the configuration file, probably due to the fact that is a machine dependant parameter (view image 1).

3.2 Frontend

3.2.1 Installation and launch

Regarding the mobile application we have installed the provided APK file on an Android Smartphone. We also tried to install it on a few simulators.
Regarding the web app, we launched it using the command *"python3 -m http.server"*, as explained into the guide lines a.

3.2.2 Conclusion

Following the instruction on the ITD Document, on a smartphone, everything works correctly. Doing the same steps on a simulator the application crashes, probably due to some incompatibilities with the running version on the simulator.
The web-app launch works correctly.

4 Acceptance Test

4.1 Tests

We are going to test the implementation of each requirements that has been implemented according to ITD document provided.

4.1.1 Actor registration

- RMM: Users actually can register providing information required, but registration process succeed also without an associated smartwatch.
- R2M: implementation works: registration process is successfull if and only there is not another user with the same email/fiscal code. However error handling is not able to distinguish between a duplicate email or fiscal code.
- R11W: organizers can successfully resister.
- R1W: companies can successfully register.
- R14C: Information such as birthday and fiscal code are validated trough UI form.

4.2 Actor Authentication

- R1M: users can successfully log in in the application.
- R12M: organisers can successfully log in in the application.
- R2W companies can successfully log in in the application.

4.3 Individuals Management

- R6M: WAITING FOR THEM.
- R2C: verified. Users received notification about new request at the email address used during registration.

4.4 Data management

- R4C: we can't directly test this feature, but it seems that all data loaded to the application is available after a logout, then it has been probably implemented right.

4.5 Issue

4.5.1 Issue1

4.5.2 Issue2

4.5.3 Issue3

4.6 Revision history

- 1.0.0 - Initial version (11/11/2018)

4.7 Document Structure

5 Effort spent

- Stefano Martina: 35.00h
- Alessandro Nichelini: 37.00h
- Francesco Peressini: 37.00h