



POLITECNICO MILANO 1863

TrackMe
Software Engineering 2 Project
ATD Document

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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
```



3.1.2 Conclusion

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: OK. Users actually can register providing information required, but registration process succeed also without an associated smartwatch.
- R2M: OK. 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: OK. Organizers can successfully resister.
- R1W: OK. Companies can successfully register.
- R14C: OK. Information such as birthday and fiscal code are validated trough UI form.

4.2 Actor Authentication

- R1M: OK. Users can successfully log in in the application.
- R12M: OK. Organisers can successfully log in in the application.
- R2W OK. Companies can successfully log in in the application.

4.3 Individuals Management

- R6M: OK. Requests appear in the right section of the mobile app. Users can effectively accept or decline them.
- R2C: OK. Users received notification about new request at the email address used during
- registration.

4.4 Data management

- R4C: OK. We can't directly test this feature, but it seems that all data loaded to the application are available after a logout, then it has been probably implemented right.
- R5C: OK. Same of the previously one.
- R2S: ??????.

4.5 Query management

- R6W: UNKNOWN. See section issues.
- R7W: OK. Companies can actually request data of individuals.
- R8W: OK. Companies can access to individuals data through the web site.
- R9W: OK. The website actually provides data download capabilities.
- R6C: OK.
- R6bisW: OK. The website gives capability of subscribe through a slider. The company actually receives a notification when a new data is available.
- R7C: KO. Check in issues section

4.5.1 Issues

For what regards the implementation of requirements R6W, we were not able to check if the queries work because the system kept telling us that the parameters inserted were too restrictive.

During the testing of requirements R7W, R8W, we have found the following issue:

- the process fails if requests are made by a company that has the same email address of a user. The error message is the following: *"Error: Unauthorized. Retry"* and it appears on the website as an alert. However, since it's unlikely that a company uses the same address of a users, we still marked the requirements as "OK".

4.6 Race management

- R8M: OK. Registration is possible through the track4run tab at any-time.
- R9M: KO. Check in issues section.
- R13M: OK. Organisers actually have all the needed to create a path.
- R14M: OK. Organisers actually have all the needed to define run informations and path.

4.6.1 issues

For what concerning requirements R9M: application only displays the name of the run, its status and the position of participants. Information about the starting point, the ending point, the precise path, the run length are not available.

4.7 Users Spectating Race

- R10M: OK. Participants position are correctly displayed.
- R13C: ????????

4.8 Issue

4.8.1 Issue1

4.8.2 Issue2

4.8.3 Issue3

4.9 Revision history

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

4.10 Document Structure

5 Effort spent

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