Software Engineering 2

Acceptance and Testing Document

Version 1.0

Andrei Constantin Scutariu	833370
Carlo Pulvirenti	828459
Sergio Piermario Placanica	916702

POLITECNICO
MILANO 1863

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1 Introduction

What follow is the acceptance test of the TrackMe application developed by the group "RegnaSchillaciSukhov",

2 Installation setup

The apk ready to be installed was provided by developers, however the tests were made both with the bundled application and with "Jetbrains Intellij" android debugger. The backend of the mobile application was hosted with Firebase, so no server setup was needed. No issues of any sort were found in compilation or installation of the application.

3 Acceptance test cases

Considering the RASD and DD documents, various tests were made, analyzing the goals and requirements defined in them, and also the ones in the ITD.

General behaviour The application consistently crashes when rotating the device on some pages, such as "Your connections" on a business user screen.

Registration When the user inserts valid data for all fields, the registration process goes fine, for both business and individual users. When one or more fields are invalid, the fields is marked with an error icon. However there seems to be no validation on the data inserted, as we successfully registered inserting a birth date set in the future, and an obviously wrong Identity Code.

Login The functionality functions as described, logging the user and presenting the proper page in relation to the type of user (business or individual). However, there seems to be a bug in the android activites that happens when the following interactions are made: register as business user, logout, login as individual user. The application should present the main page for a logged in user, but it presents the register page instead. Going back and logging in again solves the issue. The same goes with the following interactions: log out of business user Data4Help session, then register a business user for AutomatedSOS service: the application should present the user with the page for AutomatedSOS service, but it displays the Data4Help service page. Closing and reopening the application solves the issue, as it automatically logins into the proper user and page.

Data simulation Simulated data is successfully sent to the system, and is accessible to business users who made the proper request, and to whom the user permitted the access. Also the data is updated as soon as the user logs in and starts the simulation again.

Request sending The requests for user data are successfully sent and received by the targeted individual user, who can then accept or refuse them. When accepted, they grant the business user who made the request access to such individual user data. Sending a request for an individual user that has already accepted a request for the same business user successfully notifies that such request has already been accepted, and does not make any

further one as it is not necessary. When making a request for a non existent user, the request is not forwarded. Also, as planned, when an individual user refuses a request coming from the same business user twice, the business user is not authorized to make further requests to such individual user.

Global search The feature works as expected, requiring that the search finds a minimum of two users to display data, and displaying an average of all individual user's data as specified in the other project documents. This threshold however is not defined in the ITD, but only in the source code.

AutomatedSOS Slot generation works as intended. Users can subscribe to the service given the code generated by the company, then the company can login to the proper web page to view user's emergency data, while an error message is displayed if the inderted code is invalid. It is however not possible to test wether or not the AutomatedSOS service works, since it is unclear how to trigger an emergency.

All tests made by the developers inside the application pass.

All requirements reported in the ITD are satisfied, except for requirement R32: we had no instructions on how to simulate an emergency to verify AutomatedSOS notification, and the code for this feature seems to be missing.

3.1 Bug report

Summary	Landscape mode causes the application to crash or the view doesn't render properly.
Steps to reproduce	Start the application on a smartphone, activate autorotate from settings, launch the application and rotate the screen.
expected result	The application should handles landscape mode properly or at least limits the usage to portrait mode.
actual result	The application crashes or view building behaviour is unpredictable.

Summary	No validation on birthdate inserted during registration.
Steps to reproduce	Start the application, fill the registration form, select as birthdate a date in the future.
expected result	The application should forbids the user to successfully end the registration process and show a warning.
actual result	The registration process ends successfully.

Summary	Navigator stack misbehaviour 1.
Steps to reproduce	Register as business user, logout, login as individual user.
expected result	The application should present the main page for a logged in user.
actual result	It presents the register page.

Summary	Navigator stack misbehaviour 2.
Steps to reproduce	Log out of business user Data4Help session, then register a business user for AutomatedSOS service.
expected result	The application should present the user with the page for AutomatedSOS service.
actual result	It displays the Data4Help service page.

4 Quality of code and documentation

4.1 Code

The code is well strctured, with java classes properly organized in packages. Variable names are significative, and every function is properly commented.

4.2 Application

The application is much different from what was presented as mock ups in the RASD document, being a little confusing at first glance; however being this a prototype, it properly presents the functions of the system. It has some minor malfunction, as stated in the previous chapter, but overall it serves its purpose while not caring much on presentation.

4.3 Documentation

The three documents, RASD, DD and ITD, are coherent and the source code is properly documented (and also commented).

5 Effort spent

Andrei Constantin Scutariu

Date	Hours	Description
15/01/19	5h	Acceptance testing, Structure of code
total	5h	

Carlo Pulvirenti

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