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**POLITECNICO**  
MILANO 1863

## **Acceptance Test deliverable**

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**Title:** Acceptance Test deliverable  
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**Revision history:**

**V 1.0:** First version of the document.

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## 1 Project

- **Authors of the project:** Aristide Bordoli and Juan Carlos Jaramillo.
- **Repository:** <https://github.com/Jaywrkr/JaramilloBordoli>

## 2 Installation Setup

### 2.1 Instructions

The project relies too much in NetBeans, the instructions included only mentions *You only need to open the Project in NetBeans and you can run it.*

Moreover, only the NetBeans versions with support for Java Web and EE are able to handle the project. Requirement which is not stated anywhere.

The system is implemented using servlets, but any instruction about setting up Tomcat or something similar is included. The instructions also fails in mentioning the two servlets that are needed, and how to run them all together.

### 2.2 Database

There are problems with the persistence layer. The error message is *Cannot acquire data source [jdbc/myDatasource]*.

We have tried almost everything in our reach to overcome the issue, but none have resulted. The ATD will be updated if a solution is found.

### 3 Acceptance Test Case

For the moment we was not able to try the application due to problems with database and libraries, if we are able to fix it we will updated this document.

Description requirement	Status test case
The system should require unique registration for each individual.	Pending
The system should require unique registration for each third party.	Pending
Third party should make a request to access to individual data.	Pending
Third party should make a request to access to group of individual data.	Pending
The access to individuals' data should be prevent if it is not related to an authorized request.	Pending
The access to group of individuals' data should be prevent if the number of individuals whose data satisfy the request is lower or equal to 1000.	Pending
Third party shall visualize only the individuals' data related to an authorized request.	Pending
Third party shall visualize only the group of individuals' data for which the number of individuals whose data satisfy the request is higher than 1000.	Pending
As soon as one or more parameter is below defined thresholds than the system send a request to the dispatcher in order to ask for an ambulance to be sent to the individual's location.	Pending
The system should define system registration for individuals.	Pending
The system should define system registration for third party.	Pending
The system should define system request for registered third party in order to request for individual's data if the individual is registered in the system.	Pending
The system should define system request for registered third party in order to request for anonymous group of individual's data if the individuals are registered in the system.	Pending
The criteria in order to select the individuals related to a group should be age range and geographical area.	Pending
The system should define system verification for registered individual in order to approve/reject request by the third party for individual's data.	Pending
The system should define system verification in order to approve request by the third party for anonymous group of individual's data if the number of individuals whose satisfy the request is higher than 1000.	Pending
The system should define system verification in order to reject request by the third party for anonymous group of individual's data if the number of individuals whose satisfy the request is lower or equal than 1000.	Pending
The system should define system subscription for automatic retrieve of individuals' data requested by a registered third party for an authorized request.	Pending
The system should define system subscription for automatic retrieve of anonymous group of individual's data requested by a registered third party for an authorized request.	Pending
The system should prohibit access by unauthorized users.	Pending
A minimum of 2 components (e.g., user ID and password) should be required for access.	Pending

*Table 1: Requirements test case*

## 4 Additional Point

### 4.1 Documentation quality

Most of the code comments are autogenerated by the IDE, adding noise and no clarity at all to the code. There are a few comments indicating things that are missing as validation of the user input. There are comments copied directly from StackOverflow.

Regarding the ATD document, there are elements placed in wrong documents (ex: The class diagram found in the ATD should be a reference since that element should be in the DD).

### 4.2 Tests quality

In the package related with the database operation, `Data4HelpService`, can be found several tests. These tests only checks the correct functioning of the insert and search in the database, which works well as are implemented by the persistence library.

The most interesting functions, the ones implemented by the system, are out of the scope of the tests.

### 4.3 Code quality

There are a few flaws in the code.

- Unused variables
- Unused imports
- Exceptions used as control flow
- Mixed HTML with java code

The last one is related to the architecture of the whole system.

### 4.4 Notes about architecture

The architecture do not follow a clear structure. The bussiness logic is not contained in a single place and the view of the data is split between the java code and the JSP.

A better approach will be to delegate all the business logic to the servlets, leaving `Data4HelpService` only for the access to the data and confine the representation of the data (the so-called *view*) entirely to the JSP pages.