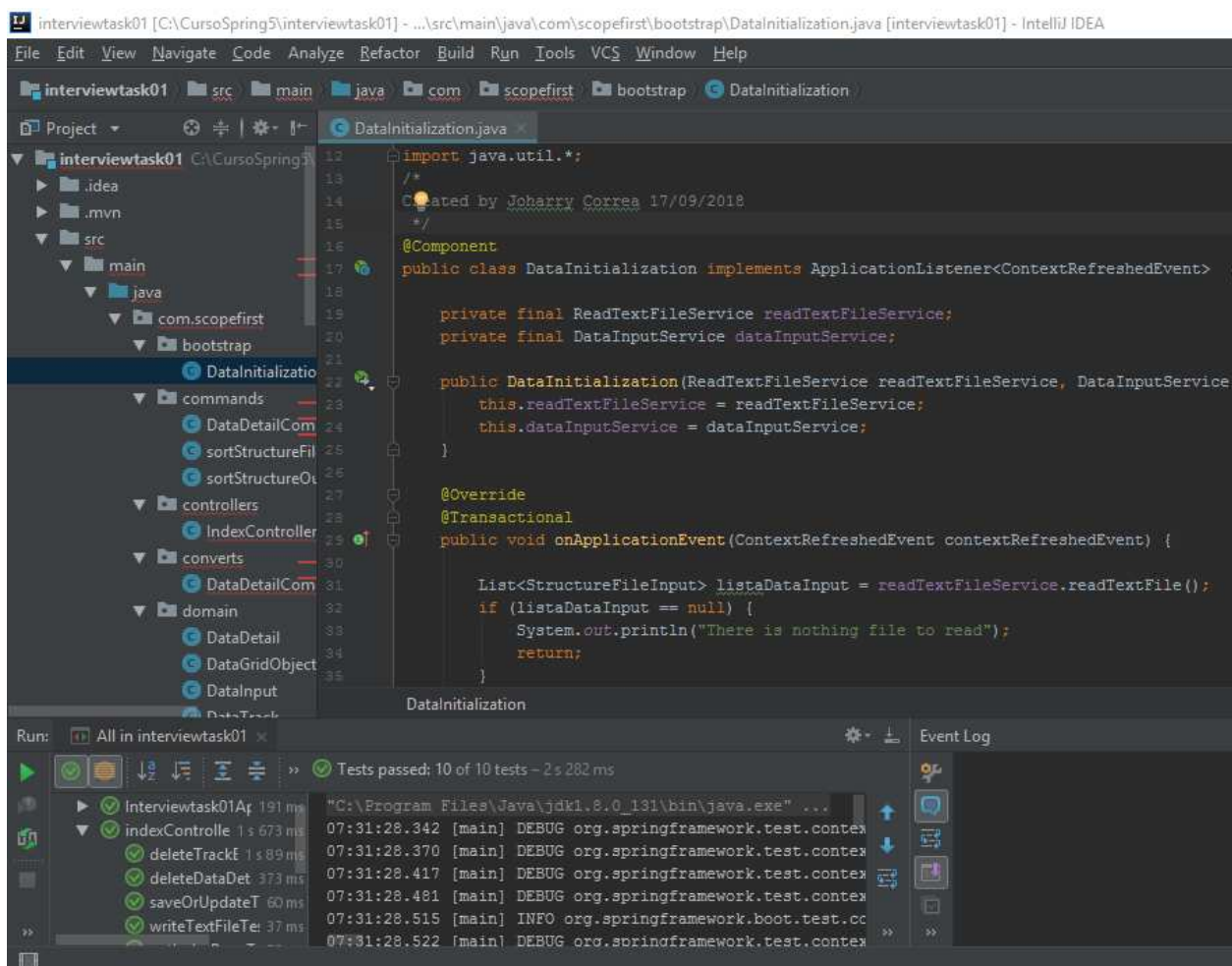# This document has made for Joharry Correa on Friday 20.09.2018
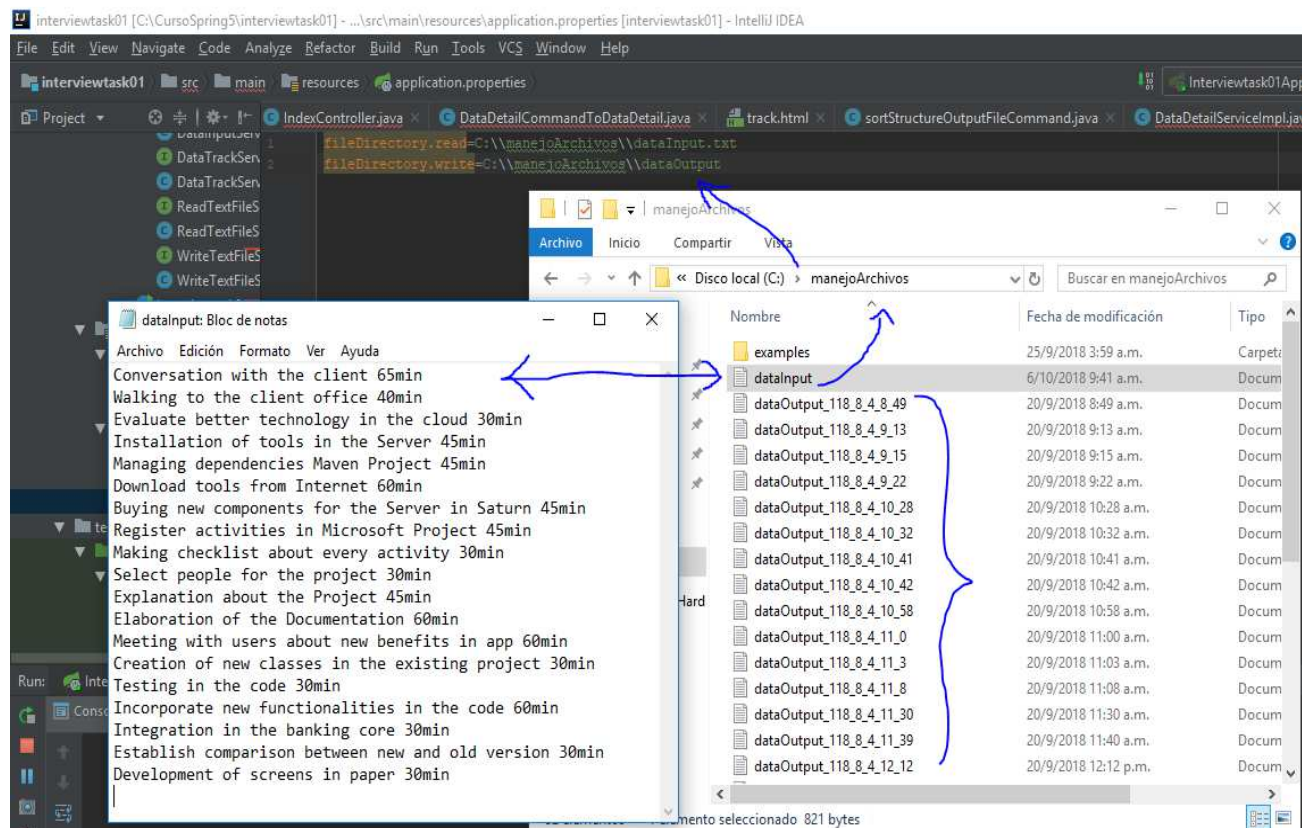
First Correction: 06.10.2018

This program was made with the following specifications:

- Java Spring Framework 5 MVC
- Windows 10
- Maven
- IntelliJ DEA
- Junit, mock, mockito for testing.
- H2 DataBase for CRUD operations.
- Java 8
- Testing in Mozilla Firefox
- I created one directory in C:\manejoArchivos for input and output files.
- in the navegator some validations were made using java script and other validations in the java code side.
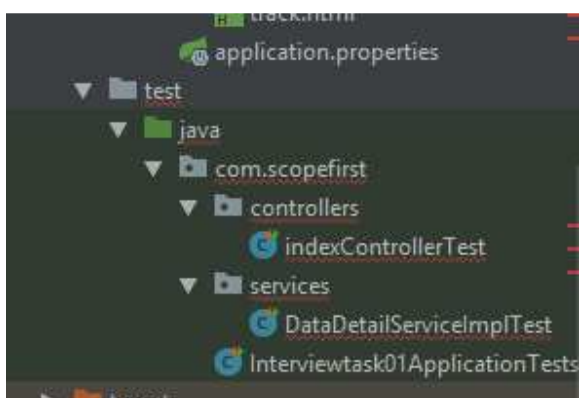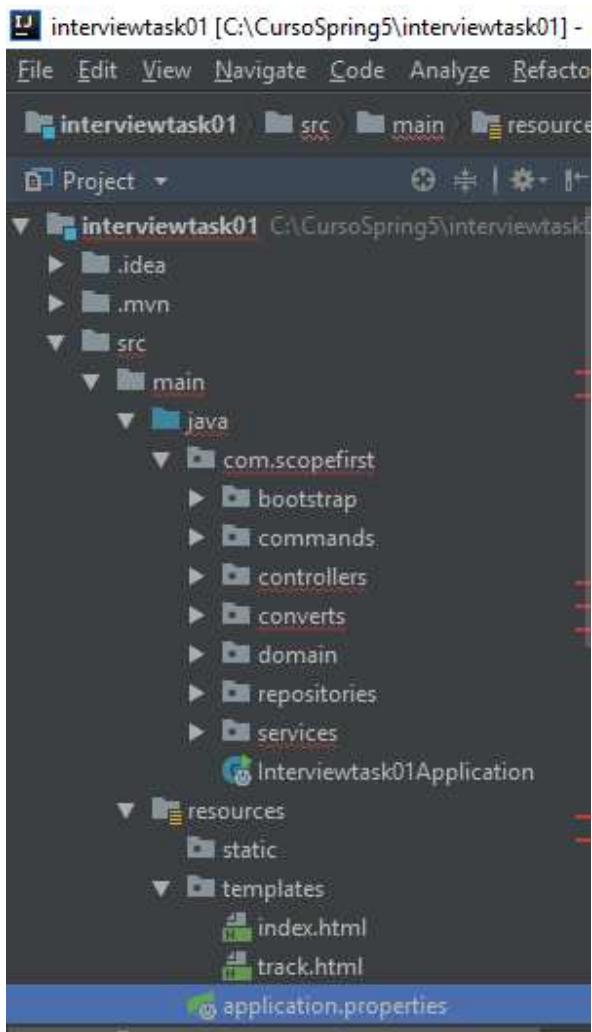
Part I

a) I have created one input file with the data that you sent me by email to test the program.
b) I have defined two directories in "application.properties" for reading and writing files. Please configure it in your environment.
c) I have created output file during my test.

Part II

a) The package is com.scopefirst
b) Package "bootstrap", here I have put one class which is executed one time when the program start, read the input file and prepare the data in H2 database.
c) Package "commands" I have put one class for exchange data between two objects and others classes to order the data.

d) Package "controllers" I have put IndexController class for this application.
e) Package "converts" I have put one class to make convertions between two objects.
f) Package "domain" I have put the models entity and others objects.
g) Package "repositories" I have created interfaces which extends CrudRepository for interact with the data base.
h) Package "services" I have created the services classes.
i) Package "templates" I have created the pages for the application.
j) I have created some classes for testing my application: Junit, mockito.

Part III

a) This is the first page in the application. You only need to put
http://localhost:8080/ or
http://localhost:8080/index
b) Here you have the possibility to create, delete tracks or print files about tracks configured.

Part IV

a) Here you can see some tracks created. You can delete tracks or generate files.

Part V

localhost:8080/track/new   ...

<- return to index

Configuration of the track

Turno: [v]

Select activity: [Installation of tools in the Server 45min   v]

Select time: [v] [v]

[Add]

List of items in the track - Morning

Sesion	Hour_Initial	Description	Action

List of items in the track - afternoon

Sesion	Hour_Initial	Description	Action

a) Here you can create sessions in the morning and in the afternoon since 9:00 to 12:00 and 01:00 to 05:00. **Note**: read more specifications in the document for this challenge.

Part VI

<- return to index

Configuration of the track

Turno:	Afternoon
Select activity:	Managing dependencies Maven Project 45min
Select time:	01 00

Add

List of items in the track - Morning

Sesion	Hour_Initial	Description	Action
Morning	09:00 - 09:30	Development of screens in paper 30min	delete

List of items in the track - afternoon

Sesion	Hour_Initial	Description	Action
Afternoon	01:00 - 01:30	Select people for the project 30min	delete

a) Here you can see one track with some activities added.

Part VII

Browser address bar: localhost:8080/h2-console/login.do?jsessionid=c9ba546b3c67e20d74210fe7c874ccfc

Auto commit | Max rows: 1000 | Auto complete Off | Auto select On

dataOutput_118_9_6_10_8: Bloc de notas

Archivo Edición Formato Ver Ayuda

```
Track 1:
09:20AM Establish comparison between new and old version 30min
10:00AM Register activities in Microsoft Project 45min
11:00AM Installation of tools in the Server 45min
12:00PM Lunch
01:05PM Managing dependencies Maven Project 45min
02:00PM Evaluate better technology in the cloud 30min
04:00PM Meet Your Colleagues Event

Track 2:
09:00AM Development of screens in paper 30min
12:00PM Lunch
01:00PM Select people for the project 30min
04:00PM Meet Your Colleagues Event
```

dataOutput_118_9_6_10_10: Bloc de notas

Archivo Edición Formato Ver Ayuda

```
12:00PM Lunch
01:05PM Managing dependencies Maven Project 45min
02:00PM Evaluate better technology in the cloud 30min
04:00PM Meet Your Colleagues Event

Track 2:
09:00AM Development of screens in paper 30min
12:00PM Lunch
01:00PM Select people for the project 30min
04:00PM Meet Your Colleagues Event

Track 3:
09:15AM Buying new components for the Server in Saturn 45min
10:05AM Conversation with the client 65min
12:00PM Lunch
01:00PM Walking to the client office 40min
02:00PM Incorporate new functionalities in the code 60min
03:05PM Integration in the banking core 30min
04:00PM Meet Your Colleagues Event
```

Delete the table if it exists	DROP TABLE IF EXISTS TEST;
Create a new table with ID and NAME columns	CREATE TABLE TEST(ID INT PRIMARY KEY, NAME VARCHAR(255));
Add a new row	INSERT INTO TEST VALUES(1, 'Hello');
Add another row	INSERT INTO TEST VALUES(2, 'World');
Query the table	SELECT * FROM TEST ORDER BY ID;
Change data in a row	UPDATE TEST SET NAME='Hi' WHERE ID=1;

a) Here you can see some txt files generated since my application after making the configurations in the page.

Page VIII

a) Here you can see the data base H2 with the data.