Midterm Evaluation: 30%

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| **Course Identification** | |
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| Course title: | **Web Services** |
| Course number: | 420-941-VA |
| Section: | 5809 |
| Teacher’s name: | Leonardo Mascarenhas |
| Duration: | 8 hours |
| Semester: | Fall 2022 |
| **Student Identification** | |
| Name: Mikael Annamalai Student number: 2295010  Date: 2022-10-13 Result: \_\_\_\_\_\_\_\_\_\_\_\_\_\_  I declare that this is an original work, and that I credited all content sources of which I am not the author (online and printed, images, graphics, films, etc.), in the required quotation and citation style for this work. | |
| **Standard of the Evaluated Competencies** | |
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| **Evaluated elements of the competency.**   * System environment * Java implementation * Unit Testing * Command line execution | |
| **Mark Breakdown** | |
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| * **This evaluation is worth for a total of 100 points.** | |

* **You need to submit the project into Léa respecting the defined period.**
* **Unlike our exercises, it is not allowed to share any information.**
* **The IDE is your choice, I suggest Visual Studio Code or IntelliJ.**
* **Save the new midterm should be zipped and respect the following standard name below:  
  YOURNAME\_YOURID\_MIDTERM\_OS**

1. Your project must run and execute.
2. You should comment all methods.
3. You should name your objects and variables properly.  
   We should not read the entire class or method to understand what the variable does.
4. Create a Maven project named SaqCustomersAPI.
5. Respect the following configuration:

- Packaging “jar”

- Java version: 11

1. Your project should register Customers for SAQ ***using the command line***.  
   No need for database integration, you can implement messages to save and list.  
   The customer must provide the following data: *Name*, *Last* name and *Age*.
2. Hardcode the following data:  
   $ … save John Doe 35

$ … save Joao Silva 25

1. Save a new customer  
   Once saved, list all
2. If the customer’s age is less than 18, show an error message saying that the application cannot register and do not add this customer to the list.
3. After the registration we should be able to see the entire customer list using the following command:  
   $ … list
4. Implement Unit Test for all classes. It will be considered only ***meaningful tests.***