SOA

Assignment 1

Using java programming language, write a web application that do the following:

For the following student structure, build an XML document and then retrieve data from it.

<University>

  <Student ID ="20200134">

    <FirstName>Ahmed</ FirstName>

    <LastName>Mohamed</ LastName >

    <Gender>Male</ Gender >

    <GPA>3.17</ GPA >

    <Level>4</ Level >

    <Address>Giza</ Address >

  </ Student >

</ University >

Your program should do the following: [10 Grades]

1- Build an XML document.   **2 marks**
2- Ask the user to enter the number of students s/he wants to store data about.   **1 mark**
3- Take student data from the user.   **2 marks**
4- Store the data in the XML file using the previous structure.   **2 marks**
5- Give the user the ability to search for a specific GPA or FirstName and retrieve the search result from the XML file.   **2 marks**
6- Choose any record to be deleted.   **1 mark**

Note that: Please note that if there is a file, your app should read it. Not every time, file will be created.

Submission rules

- The assignment should be submitted in a **group of 3**.
- The Assignment will be discussed with your TA at **the week starting 11-11-2023**.
- No late submission will be accepted.