Homework

**1) Theory**

From w3schools:

<https://www.w3schools.com/xml/xml_whatis.asp>

<https://www.w3schools.com/xml/xml_usedfor.asp>

<https://www.w3schools.com/xml/xml_tree.asp>

<https://www.w3schools.com/xml/xml_syntax.asp>

<https://www.w3schools.com/xml/xml_elements.asp>

<https://www.w3schools.com/xml/xml_attributes.asp>

<https://www.w3schools.com/xml/xml_namespaces.asp>

<https://www.w3schools.com/xml/xml_dom.asp>

<https://www.w3schools.com/xml/xml_dtd.asp>

<https://www.w3schools.com/xml/xml_schema.asp>

Parsers:

DOM parser: <https://www.baeldung.com/java-xerces-dom-parsing>

SAX parser: <https://www.baeldung.com/java-sax-parser>

STAX parser: <https://www.baeldung.com/java-stax>

JAXB marshalling/unmarshalling:

<https://www.baeldung.com/jaxb>

How to parse inner class object with JAXB:

<https://www.mysoftkey.com/java/jaxb-nested-list-of-java-object-example/>

How to parse dates with JAXB:

<https://www.baeldung.com/jaxb-unmarshalling-dates>

How to add jaxb using maven:

<https://mkyong.com/java/java-lang-classnotfoundexception-com-sun-xml-bind-v2-contextfactory/>

**2) Practical tasks**

1. Create one XML file and XSD schema for at least 5 classes from the below hierarchy.
2. Validate XML file using XSD schema and assigned parser.
3. Parse XML file using one of the parsers from the title.
4. Add JAXB annotations to the hierarchy. Date, List, and complex objects should be covered.
5. Parse XML using JAXB.

Assignment of parser types:

| Romi | StAX |
| --- | --- |
| Ramiro | SAX |
| Emily | DOM |
| Ulises | StAX |
| Jorge | SAX |