

Software tools assignment unit 8 review questions

Name: Natnael Atsbha

I: True/False Questions

1. False
2. True
3. False
4. False

II: Short Answer Questions

1. What is XML?

XML (Extensible Markup Language) is a technology that allows the definition of custom markup languages to represent structured data. It is used to describe and store data in a platform-independent and language-agnostic way.

2. Advantage of XML?

The main advantages of XML include:

- It allows for the creation of custom tags to represent data.
- It is portable across different platforms and programming languages.
- XML separates content from presentation, making it easier to transfer data between systems.
- XML can be validated using schemas (DTD or XSD) to ensure data is in a correct format.

3. Explain low-level design.

Low-level design (or detailed design) involves refining the high-level design of a software system by identifying specific classes, methods, and attributes. It involves textual analysis of use case scenarios to define the classes that represent the system's components, as well as designing how these classes interact with each other.

4. Explain how to identify a class.

To identify a class:

- Review all the objects in sequence diagrams.
- Eliminate redundancies where the same concept may have been named differently across diagrams.
- Look for similarities between objects that may be instances of the same class.
- Define the methods based on messages sent to the objects and list the attributes of the class while eliminating redundancies.