CSE 5324-002 Quiz 2 Review Questions

1. Expect a few requirements-related questions primarily about functional, non-functional, constraints, and what models are used for.

2. Know the domain diagram relationships and syntax. Know the various notation and symbols used in the domain diagram, such as: class, attributes, aggregation, composition, inheritance, multiplicity, association relationships, and association classes. Know the proper way to use each. Know the difference between aggregation, composition, and inheritance.

3. A domain model, as opposed to a class diagram, does and does not show what? Know the steps to creating a domain model and how to identify terminology needed to construct the elements of the classes and relationships in the domain model. Know the notation.

4. What kind of UML type model is a domain diagram? What is the main purpose of the domain diagram?

5. What is a software architecture?

6. What has the most significant impact on the selection of an architectural style?

7. Know system types and supporting architectural styles. Know the names and summary of each type of software architecture mentioned in M06.

8. What are the steps for developing the software architecture?

9. Know design principles (Section 6.5 in the textbook and Design principles slides). Study each of the architectural styles on slides and determine which support the design principles and which conflict.

10. What kind of UML type model is a use case diagram?

11. Know the correct syntax for depicting Use Case Diagrams. Know what is inside/outside the system context, the correct relationship between actors and use cases, where inheritance is (and is not) depicted, the difference between <<extend>> and <<include>> relationships and the proper way to depict/notate them.

12. Know the level of details needed for Use Cases. Understand the difference between abstract, high-level, and expanded use cases. Understand the notation and how it is used.

13. Know what are use case models. What questions help determine if you have a use case or not?

14. What does the TUCEW and TUCBW define? Know the rules for TUCBW and TUCEW. Know what they describe. How do they '*begin*' and '*end*' and with what?

15. Understand what the Requirements-Use Case Traceability Matrix (RUCTM) is used for and how it is constructed. Know what information is on this RUCTM and what it is used for.

16. Understand how to put together the Iteration/Increment Matrix (IM) and what it is used for. Know what information is on this IM and what it is used for.