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Computing Project

*Topic 3:
Design Specifications*

Scope and Coverage

This topic will cover:

- Structure of a Design Specification
- Content of a Design Specification

Learning Outcomes

By the end of this topic, students will be able to:

- Carry out the design for a computing artefact.

Key Points - 1

- The content of this lecture is not meant to replicate or replace concepts and techniques introduced in other modules associated with this programme.
- It is meant to compliment concepts and techniques introduced in other modules associated with this programme.
- This lecture should help YOU decide how YOU will document the design for YOUR project.

Key Points - 2

- Every text book, academic paper or Web site that you look at will put forward a different structure for a design specification.
- The structures are not right or wrong – they are different.
- They are different because of the context within which they are to be used.
- The structure presented here is the structure YOU are required to use for YOUR project.
- This argument also applies to the contents of a design specification.

Structure of a Design Specification

Structure

- Structural Model
- Behavioural Model

Structural Model

- This section presents a detailed class diagram for YOUR system

Behavioural Model

- This section describes the behavior of the actors and classes in YOUR system

Content of a Design Specification

Important

- The contents presented here are the contents YOU are required to produce for YOUR project.

Structural Model - 1

- This section presents a detailed class diagram for YOUR system. At this stage in the project the class diagram will be complete it should contain:
 - Classes and the relationships between them
 - Methods
 - Attributes
- The above must be modelled using UML notation

Structural Model - 2

- The completed class diagram should be supported by appropriate narrative that relates to YOUR project
- Detailed class definitions should be included in an appendix.

Behavioural Model

- This section describes the behavior of the actors and classes in YOUR system and should contain:
 - Either Sequence Diagrams
 - Or Collaboration Diagrams
- The above must be modelled using UML notation
- The completed UML diagrams should be supported by appropriate narrative that relates to YOUR project

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Important Points

- This lecture provides an overview of the structure and content of the Design Specification for the Computing Project.
- Failure to adhere to this structure and content will result in lost marks.
- This Chapter of your report is not just a collection of UML diagrams – it is a collection of UML diagrams supported by appropriate narrative.

Topic 3 – Design Specifications

Any Questions?



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