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Vellore Institute of Technology

(Deemed to be University under section 3 of UGC Act, 1956)

B.Tech. Winter Semester 2024-25
School Of Computer Science and Engineering (SCOPE)

Notes
Software Engineering

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1 Module:2 Introduction To Software Project Management

1.1 Risk Management

1.2 RMMM Plan

1.3 CASE TOOLS

2 Module:3 Modelling Requirements

2.1 System Modeling

2.2 Requirements Specification and Requirement Validation

2.2.1 Requirements Elicitation techniques

2.2.2 Requirements management in Agile.

3 Module:4 Software Design

3.1 Design concepts and principles

Converting Software Requirement Specification (*SRS*) document to a design document.

Parts of design process:

1. Interface Design
2. Architecture Design
3. Data/Class Design
4. Component Level Design

Mapping Diagram to Design Model:

Interface Design	Architecture Design	Data/Class Design	Component Design
• Use Case • Activity • Data Flow • State • Sequence	• Class • Analysis	• Data-Flow • Class • Anaylysis	• Class • Data Flow • Sequence Diagram

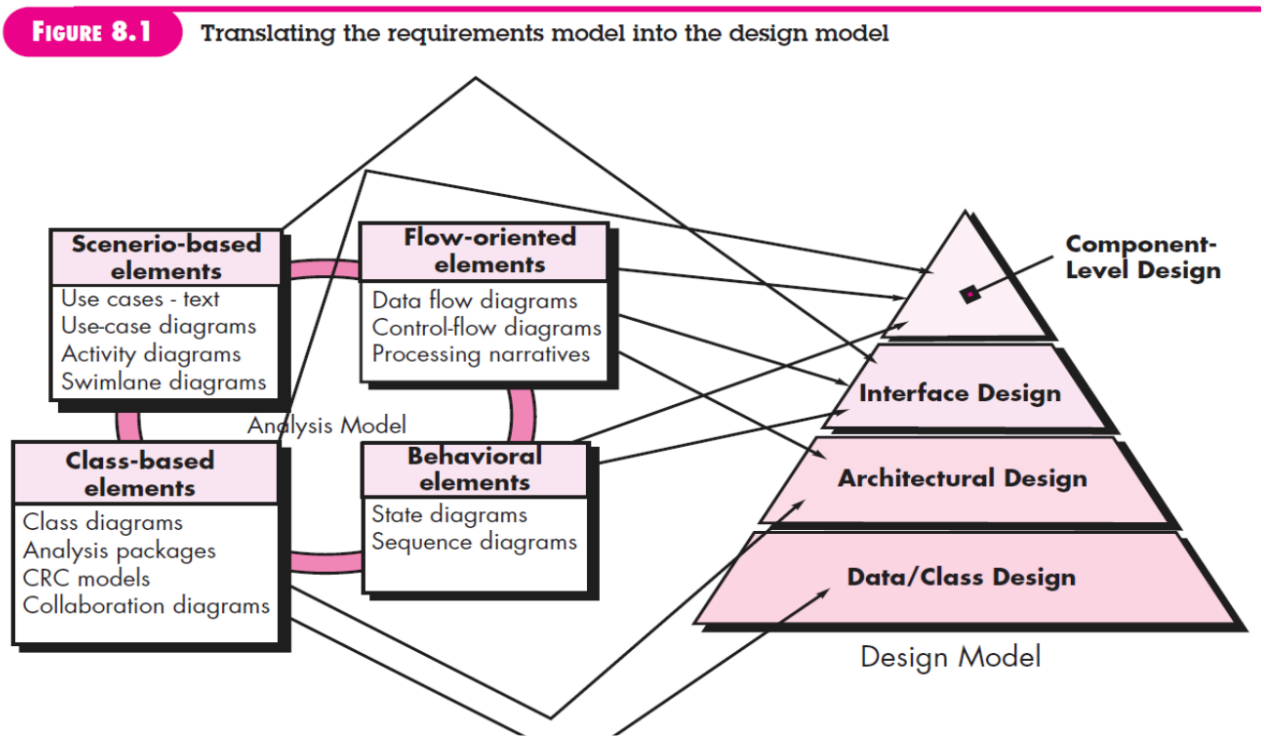

Figure 1: Diagram to Design Model mapping

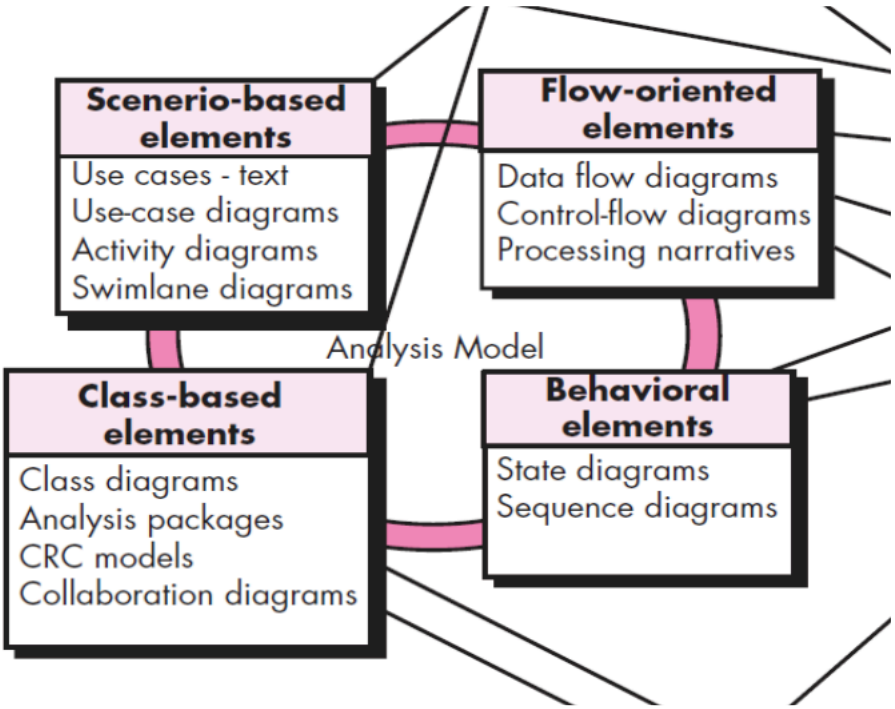

Figure 2: Types of Diagrams

5.1 DFD (1, 2)

5.2 Use Case

5.3 Sequence

5.4 Class

5.5 Activity

5.6 ER

5.7 State Transition