Object Modelling Technique (OMT)

- Object-oriented software development methodology was proposed by James Rumbaugh et.al.
- To analyse, design and implementation of a information system

OMT Phases

Four Phases of OMT

- Analysis
- System Design
- Object Design
- Implementation

Analysis

- Problem statement
- Build models of the problem domain
- It includes elicitation, analysis and specification

System Design

- Overall architecture of the system
- The system is organized as a set of sub systems

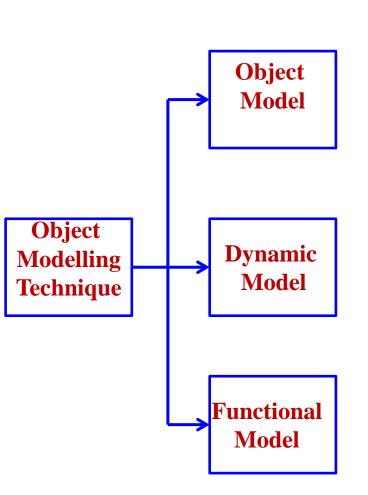
Object Design

- It builds a object model based on the analysis model
- Data structures and algorithms to implement each class
- Refinement of design

Implementation

• Translation of object design into particular programming language

Three Models of OMT



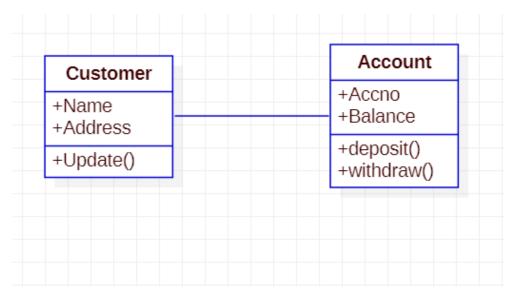
The **functional model**, represented in UML with use case diagrams, describes the functionality of the system from the user's point of view.

The **object model**, represented in UML with class diagrams, describes the structure of the system in terms of objects, attributes, associations, and operations.

The **dynamic model**, represented in UML with interaction diagrams, state machine diagrams, and activity diagrams, describes the internal behavior of the system.

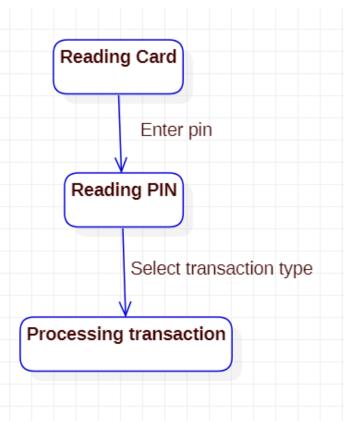
Object Model

Class Diagram



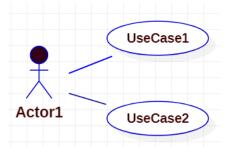
Dynamic Model

State Diagram



Functional Model

Use Case Diagram



Data Flow Diagram

