

Sequence Diagrams

- sequence of interactions take place during a particular use case or use case instance
- object & actors - top - dotted line drawn vertically from
- interactions between
↳ annotated arrows

Interaction Perspective

→ interactions

- system-environment
- components of the system

Use Case Diagram

- Actor (perform role in system)
 - primary - module
 - secondary - lessons
 - off stage - users
- Use case
- System relationships
 - extend (optional)
 - include (compulsory)

requirement elicitation

External Perspective

→ environment

Context Model Diagrams

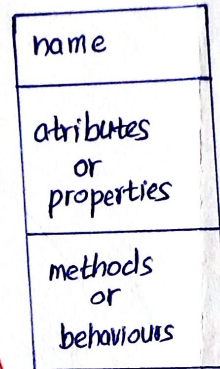
- operational context outside the system boundaries.
- Activity Diagram
↳ sequence of activities

Structural perspective

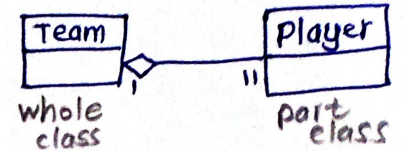
→ structure

Class Diagrams

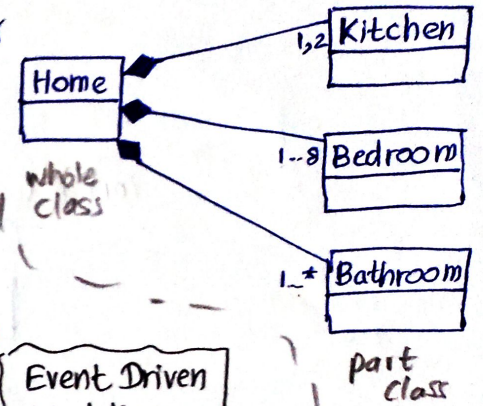
↳ shape of a class



Aggregation models



Composition models



Behavioural Perspective (data, events)

Data Driven Modeling

processing input data and generating an associated output

Event Driven Modeling

how a system responds to external and internal events

State Diagrams/State Machine Model/State Chart Diagram

System Perspectives

Activity diagram (structured design methods ↳ DFD)

SYSTEM MODELING

Models

Existing System Models

- requirement engineering
- what existing system does
- strengths & weaknesses

Planned System Models

- requirement engineering
- explain proposed require.
- discuss design proposals

- The process of developing abstract models of a system.
- Different view or perspective
- UML
- Understand the functionalities of the system
- Used to communicate with the customer

(01) ★ Computation Independent Model (CIM)

└ Flow 1, SRS
= domain models

(02) Platform independent Model (PIM)
└ UML models

3 types
of
models

(03) Platform Specific Models (PSM)
└ adding platform specific details.

models →
program

Model
Driven
Architecture

Agile Methods &
MDA

└ is possible

Model Driven Engineering (MDE)

models are the principal outputs rather than programs

Pros

└ higher level of abstraction
(system 1 ഉന്നതതരംഗം ശാഖ
simple ഉണ്ടാക്കി)
generating codes automatically

Cons

└ not necessarily right for implementation
(optimize അളവ് ഉണ്ടാക്കി
ഉപയോഗം)
cost of developing translators for new platforms.

