

SCRUM

SM = Scrum Master

PO = Product Owner

↑ representative
of the end-users

↑ that collaborates
with the
team

UML# Object Oriented System Analysis and Design

↑ maximum time
spent on design

it uses object oriented
fundamentals

Characteristics

- ① It uses the 4 principles of object oriented programming.
- ② Focus should be on objects
- ③ More importance on modeling the software.

classes
object
inheritance
polymorphism
encapsulation
abstraction

four
principles

When to use OOSAD?

— Rapidly changing features and updates

— When the system is very complex

Benefits of OOP

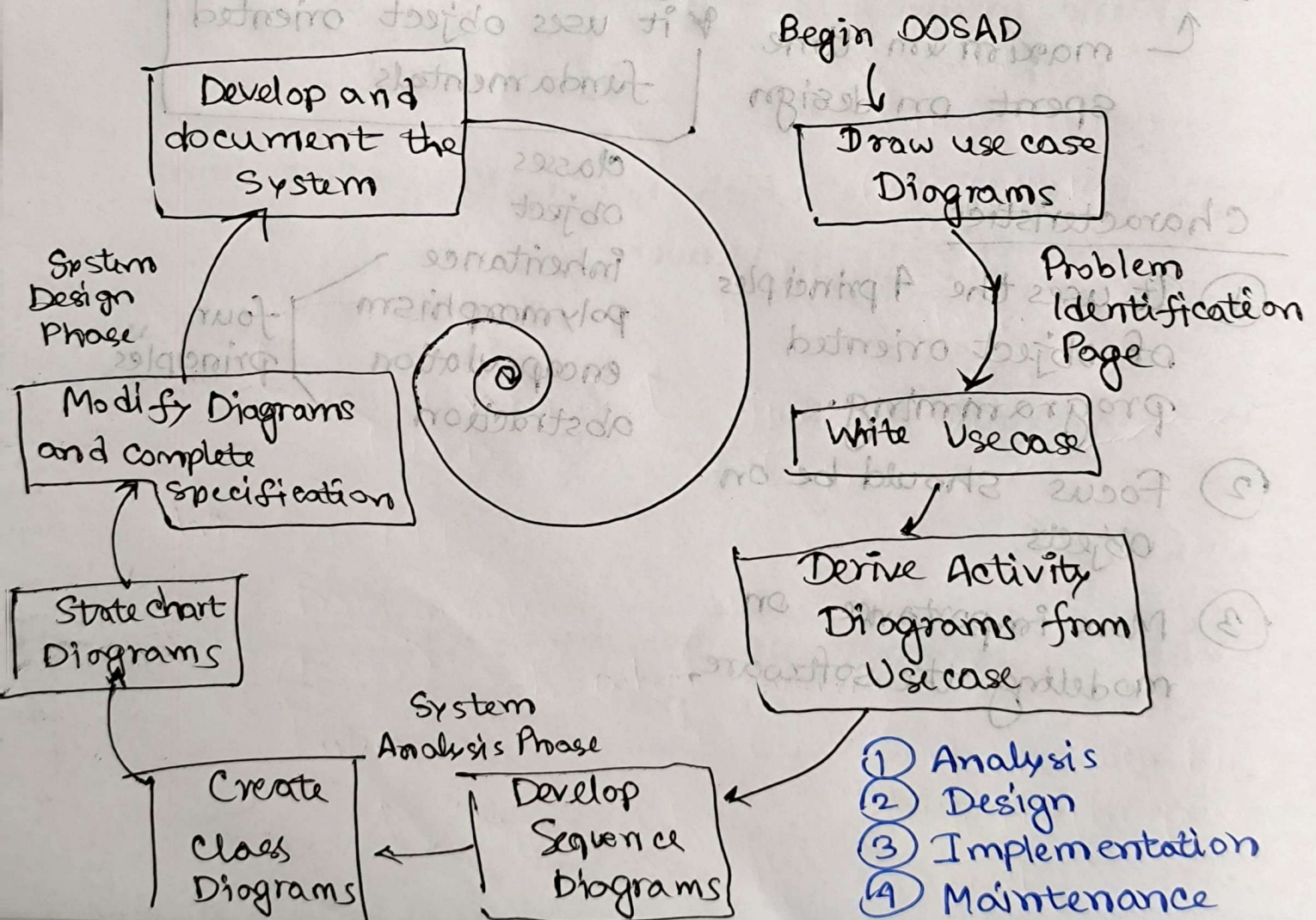
↳ reusability
↳ modularity

Why and when we should use these three methodologies

Tools to design

OOSAD based softwares (chapter 10)

↳ UML == Unified Modeling Language



Difference chart of SDLC, Agile, UML

chapter 1 : done

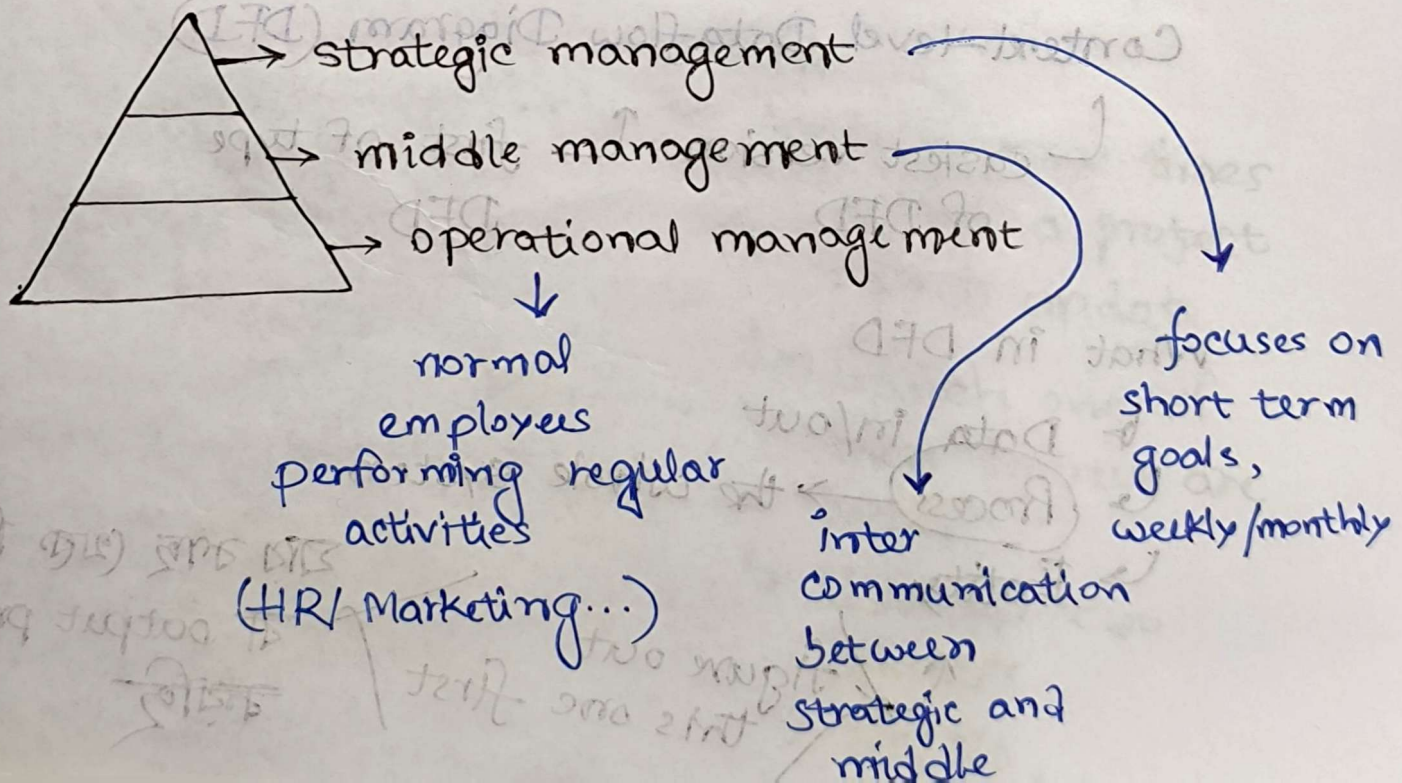
— 0 —

Chapter II : Understanding and Modeling Organizational Systems

- DFD
- Entity Relationship Diagram
- Use case Diagram

Three main forces interacting to shape organization

- Levels of Managements
- Design of Organization
- Organizational Cultures



Organizational Environments

- ① Community
- ② Economic
- ③ Political
- ④ Legal

Open ^{System} Organization

System
Close Organization

hidden
Secrets

not
freely
accessible
information
(rules/policies)

Context-level Dataflow Diagram (DFD)

← easiest version of DFD first of type DFD

What in DFD

↳ Data in/out
↳ Process → the whole system
↳ Entity

figure out this one first

যদি বাছ (থাক) নিশ্চি
বা output provide
করাছি