

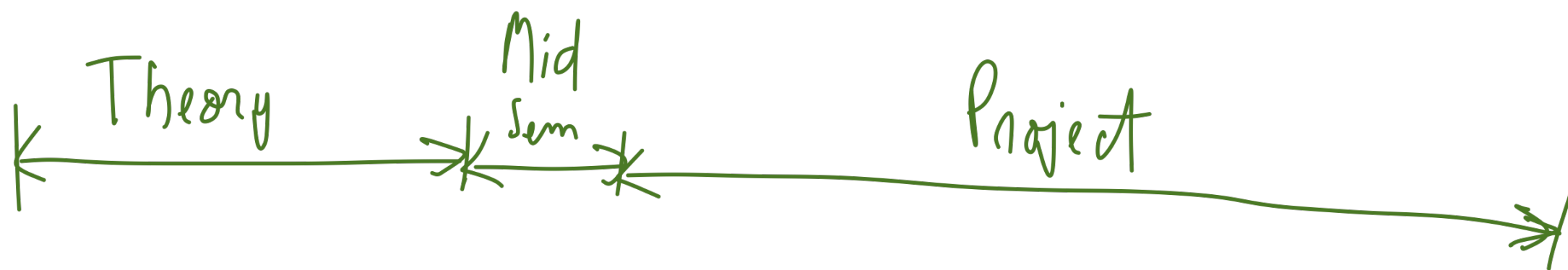
SOFTWARE ENGINEERING

Class 1, Course Description

COURSE OVERVIEW

GOAL

Learn software
engineering concepts by
building a highly scalable
application deployed to
the cloud.



12-14 classes

(Software Engineering Basics)



12-14 classes

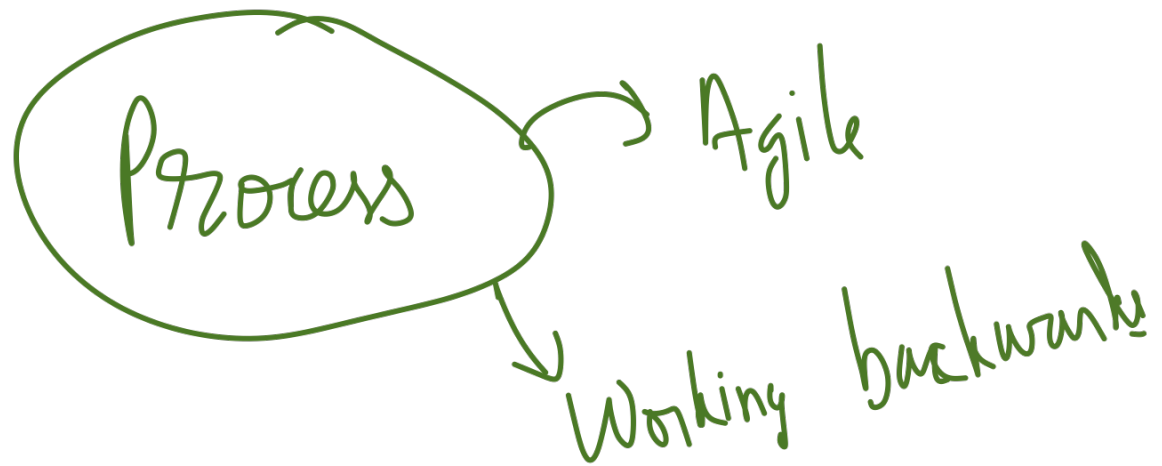
(Reviews, Demo)
& Guest Lecture

2-4

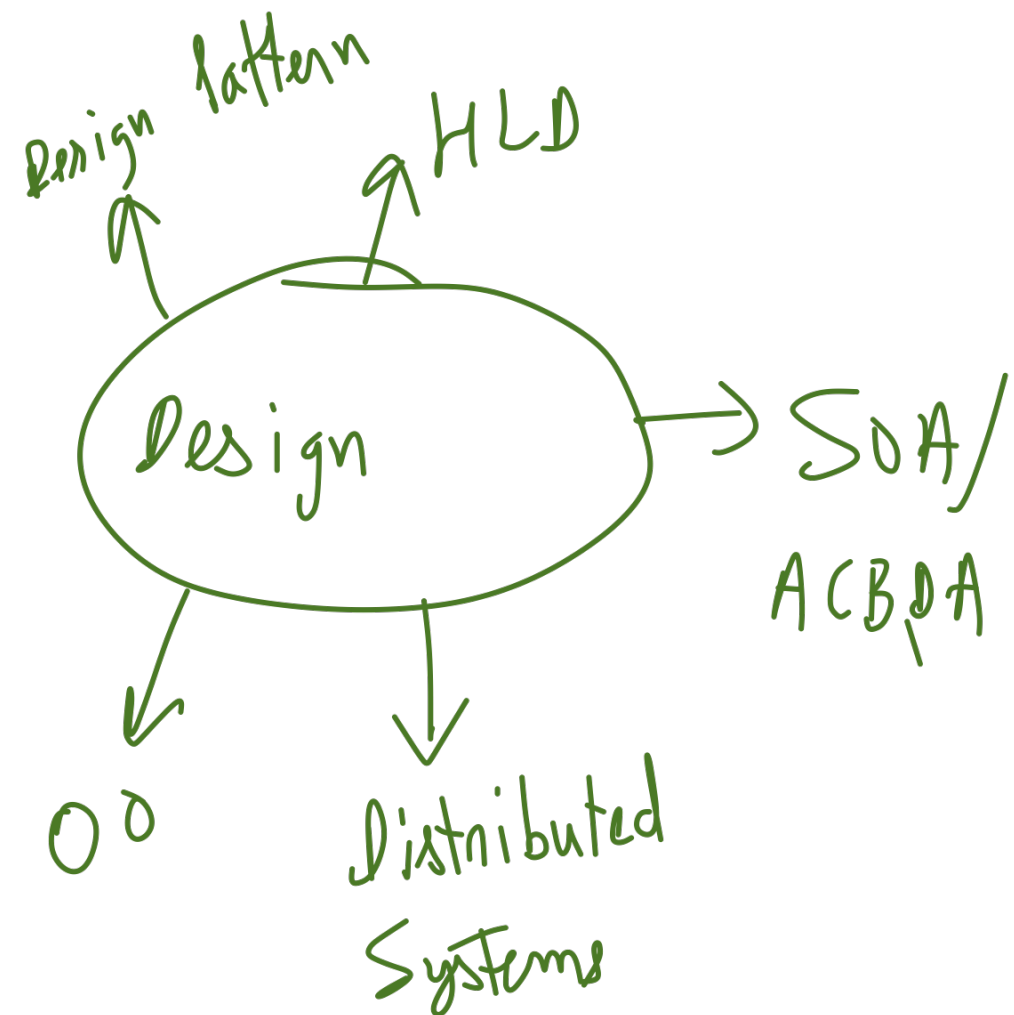
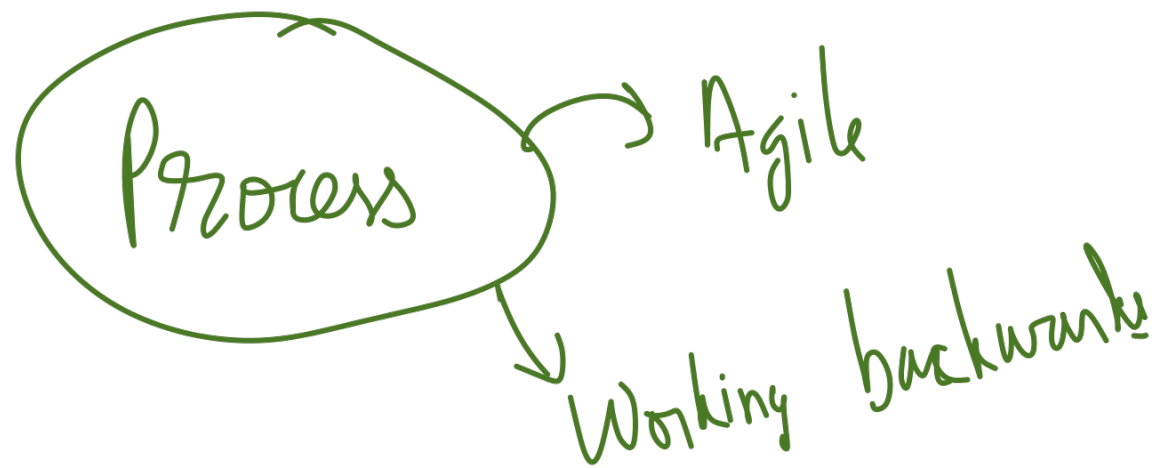
Optional

Classes
for
Learning
Java/
Cloud System

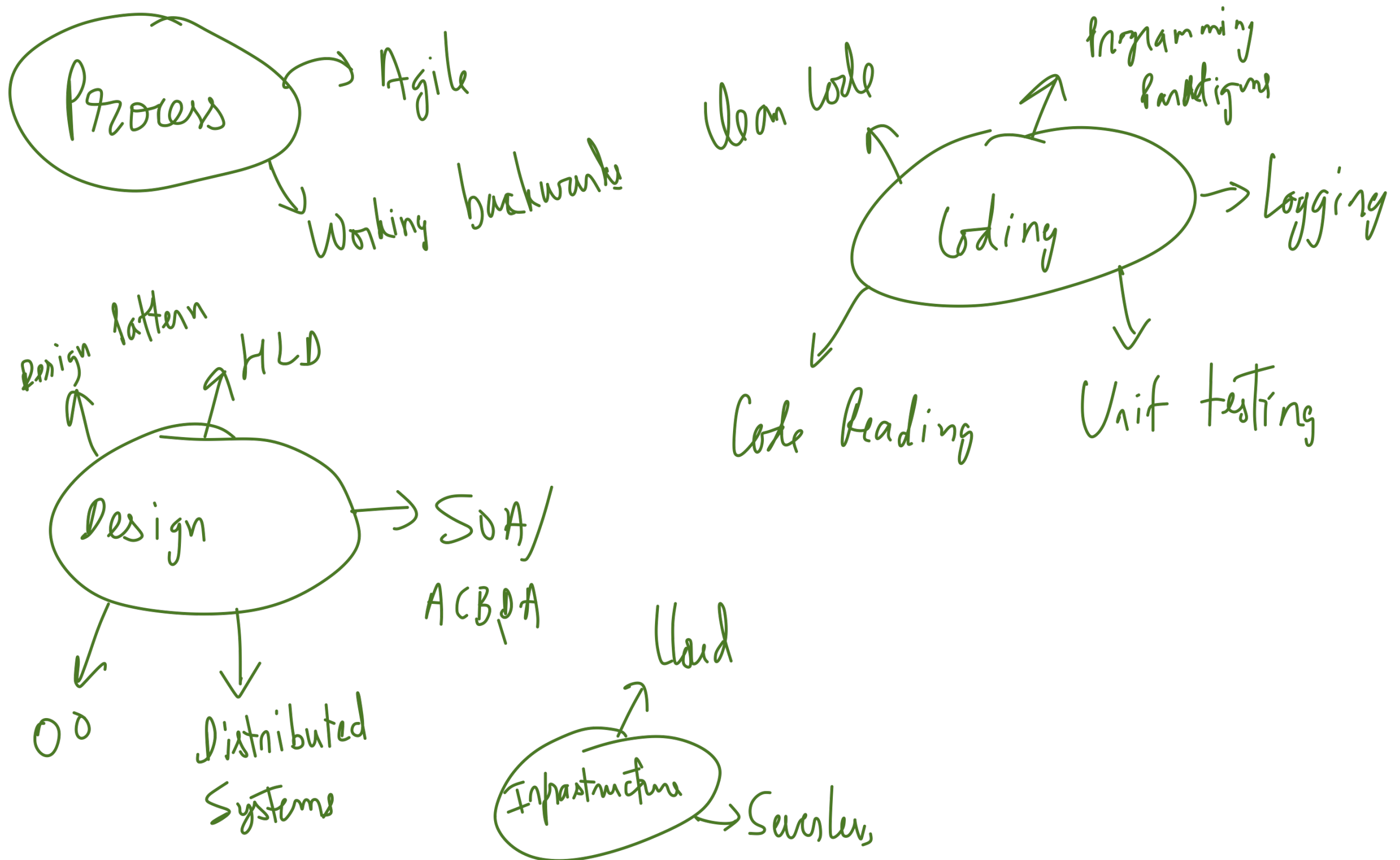
THEORY



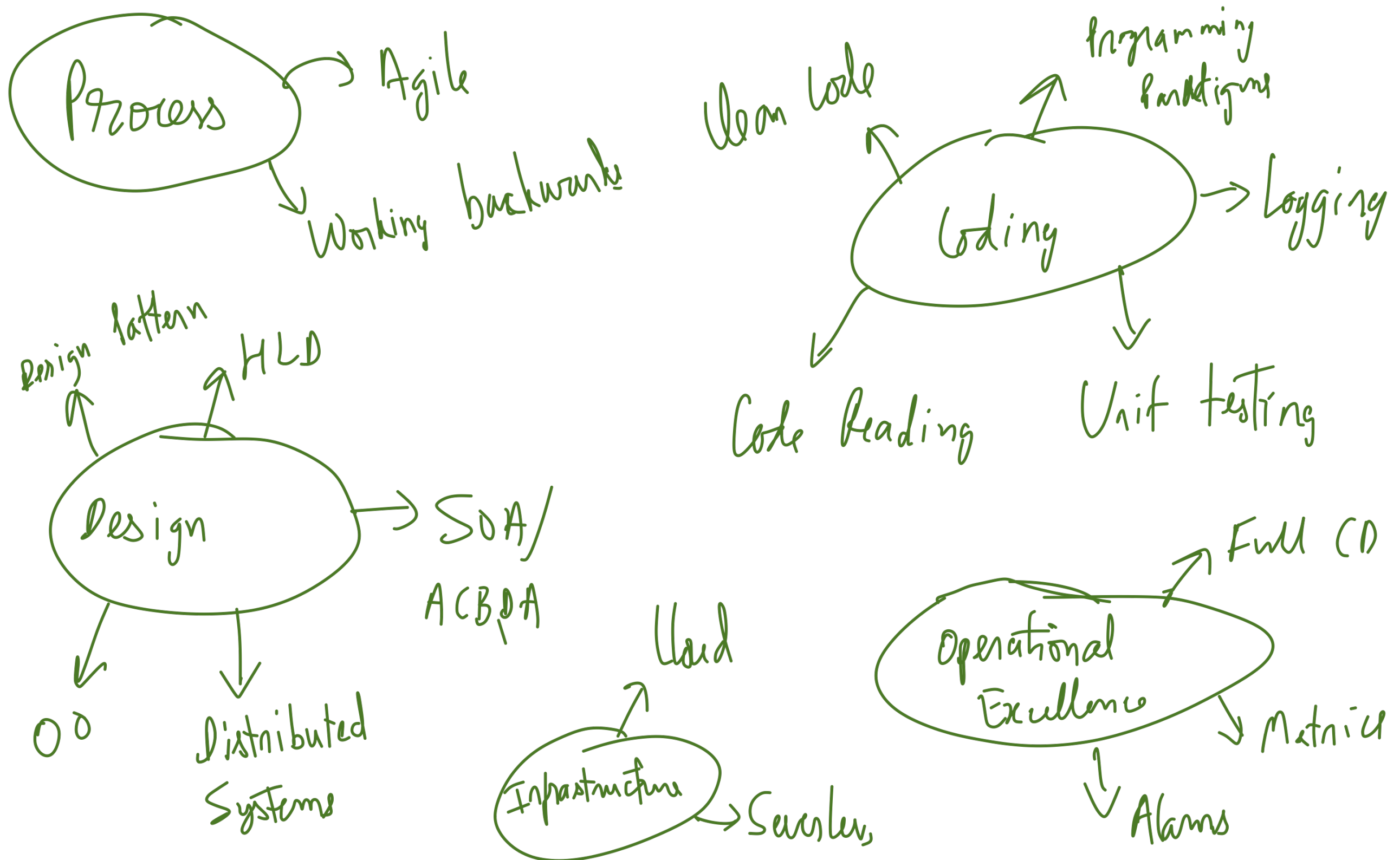
THEORY



THEORY



THEORY



PROJECT

[Team Size : 2-6]

Distributed
Systems

Enterprise
Quality

Working
Demo

Open Sourced
on Github

Type of Evaluation	Weightage (in %)
Mid SemExam	20%
PRFAQ Review (In Class)	10%
Design Review (In Class)	10%
Final Project Demo (In Class)	40%
Class interaction/Quiz	20%

} 20%
 { 80%

No text book / All reference materials available online

REFERENCES

- <https://www.infoq.com/presentations/Software-Engineering/> by Glenn Vanderburg
- <https://www.infoq.com/podcasts/taking-back-software-engineering/>
- “No Silver Bullet - Essence and Accidents of Software Engineering” by Frederick P. Brooks. Available at IEEEExplore and https://en.wikipedia.org/wiki/No_Silver_Bullet
- SWEBOK v3.0 - <https://www.computer.org/education/bodies-of-knowledge/software-engineering>
- “The Emperor's Old Clothes” - <http://web.archive.org/web/20070211210228/http://www.braithwaite-lee.com/opinions/p75-hoare.pdf>
-