

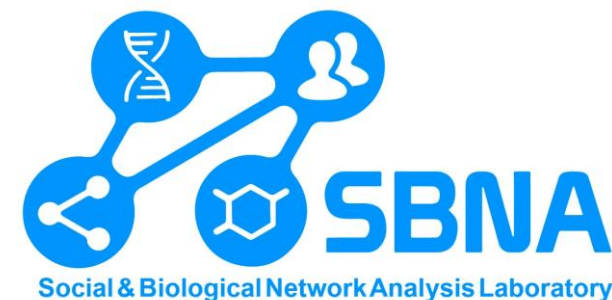


دانشگاه کردستان
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Advanced Software Engineering Course

Basics review

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Initial assessment

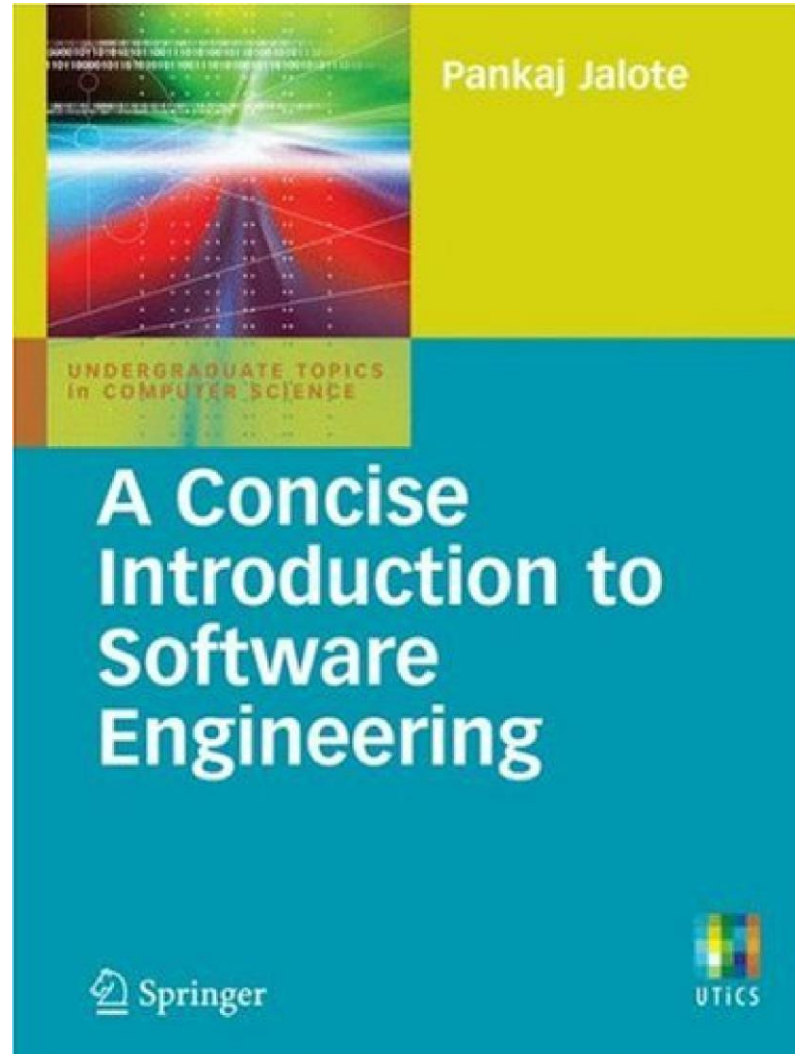
1. Write down a formal Definition of Software Engineering
2. What are software engineer tasks?
3. Find three top most software engineering journals
4. How we measure the size of a software?
5. How we measure the quality of a software?
6. Enumerate differences between front-end & back-end software engineering

Agenda

- Review most important basic concepts
- First steps for software engineering research



This session references



WHAT EVERY ENGINEER SHOULD KNOW ABOUT **SOFTWARE ENGINEERING**

Phillip A. Laplante

 **CRC Press**
Taylor & Francis Group
Boca Raton London New York
CRC Press is an imprint of the
Taylor & Francis Group, an **informa** business

Basics

- › Formal definition of Software Engineering
 - › IEEE definition
- › Software Engineer tasks
 - › Less than 50% of tasks refers to coding
 - › Difference between Programmer & Software Developer
- › Is there a whole certification for software engineering?
 - There are plenty partial certifications

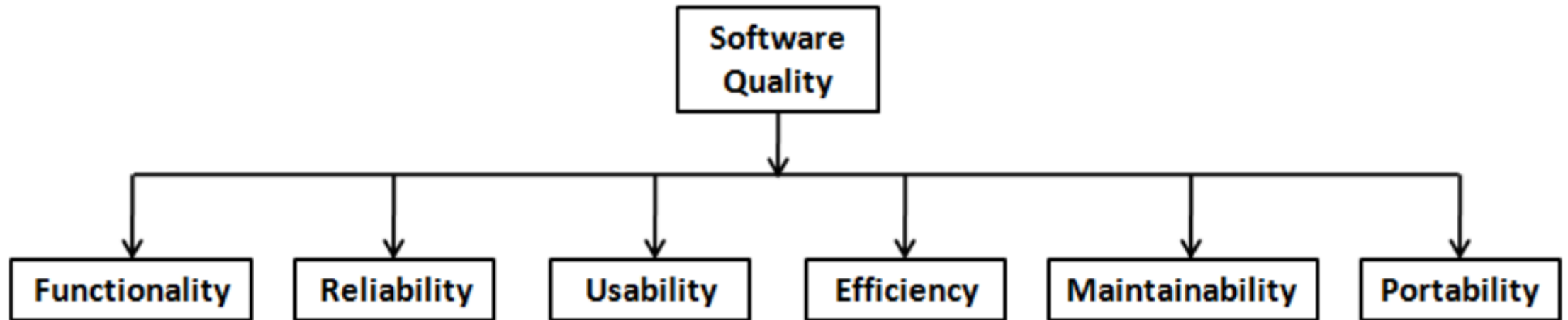
Problem of Software Engineering



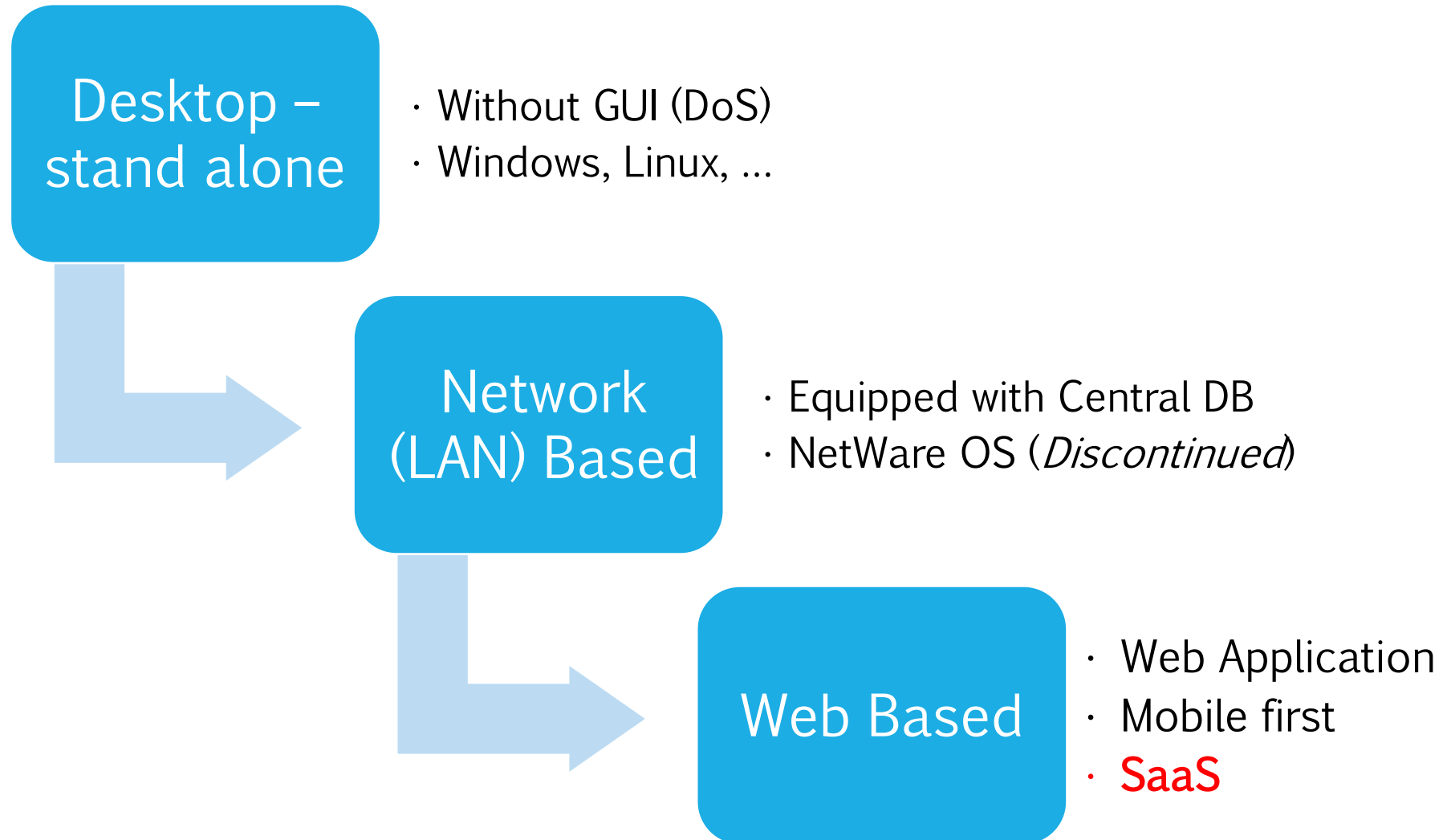
Software Process Models?

How to compare two similar softwares?

- › Size?
 - LoC
 - Function Point
- › Quality



Network impact on software types



Web based software development steps

1. Goal

- Static
- Dynamic
 - › Routine
 - CMS
 - › Customized

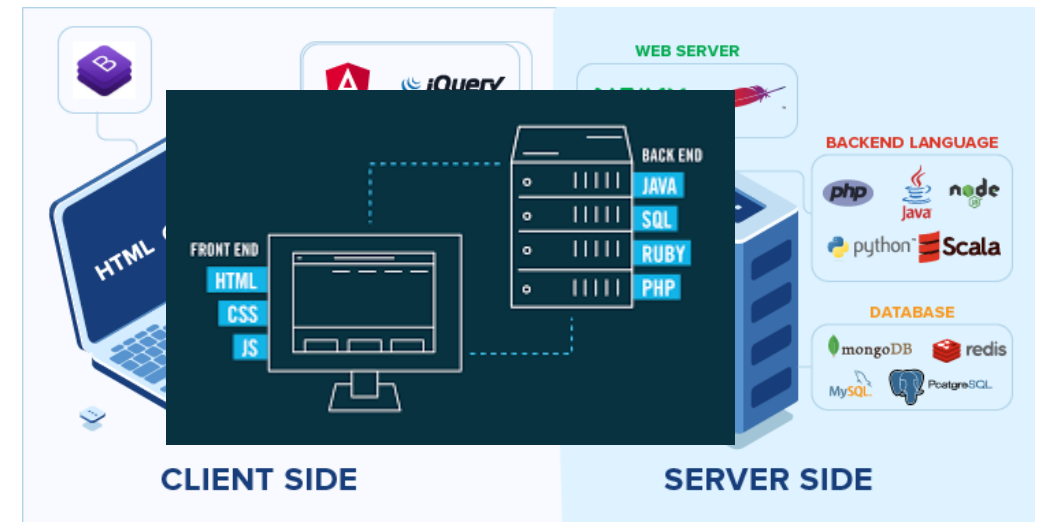
2. Domain name registration

- Global
- Local
- Free

Web based software development steps

3. Development

- Graphics
- Front-end
 - › HTML
 - › CSS
 - › JavaScript
- Back-end
 - › PHP, RUBY, .NET, JS
 - › Databased
 - MySQL
 - SQL Server
 - NoSQL



Web based software development steps

4. Hosting

- Windows based
- Linux Based
- Other Services
 - › Email

5. Search engine optimization

6. Maintenance

- Domain name & hosting renewal
- Bug fixing
- Update

Class presentation topic

- › Propose a feasible, directly related title for class presentation
 - Write down your propose in online sheet



Question?

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ADVANCED SOFTWARE ENGINEERING