

Software Engineering Streaming

by Meiliana – D4572

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Outline

- Introduction
- Course Structure
- Research Topics
- Application Example from Thesis
- SE Career

Software Engineering

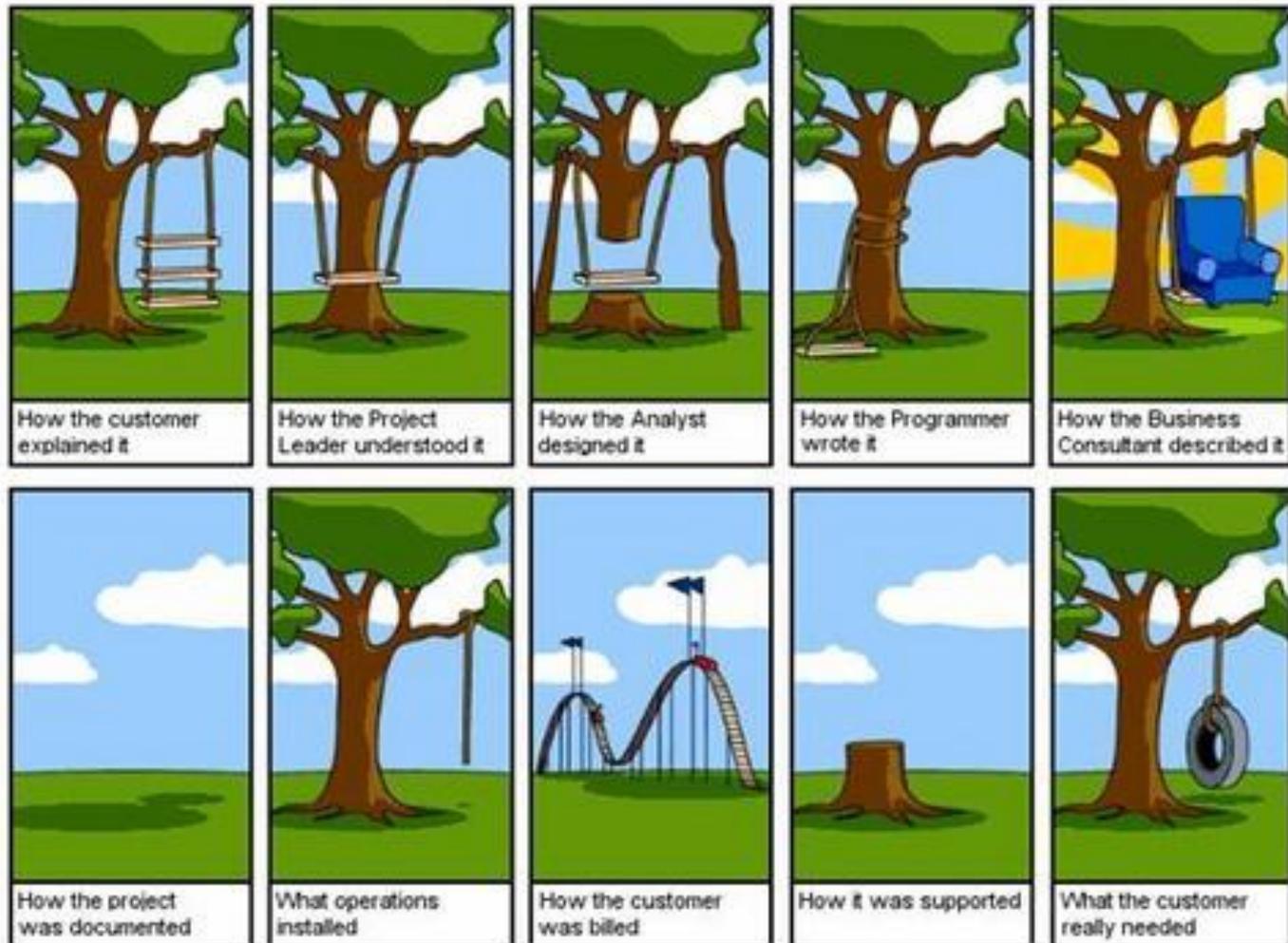
Definition

- The process of **solving customers' problems** by the **systematic development** and evolution of large, **high-quality software** systems within **cost, time and other constraints**
- The systematic activities involved in the **design, implementation** and **testing** of software to optimize its production and support.

Nature of Software

- **Software is intangible**
 - Hard to understand development effort
- **Software is easy to reproduce**
 - Cost is in its development
- **The industry is labor-intensive**
 - Hard to automate

Why Software Engineering



Course Structure

4th Semester

| | |
|----------------------------|-----|
| Code Reengineering | 4 |
| Agile Software Engineering | 2 |
| Pattern Software Design | 2/2 |

5th Semester

| | |
|-----------------------------------|-----|
| Object Oriented Analysis & Design | 2/2 |
| Framework Layer Architecture | 2/2 |

Code Reengineering

- Refactoring Science
- Simplify your code
- Less your complexity code

Agile Software Development

- Learn Scrum Methodology
- Learn Scrum practically with software tools

Pattern Software Design

- Learn Design Pattern in Object Oriented Programming
- Course starter to learn framework architecture software

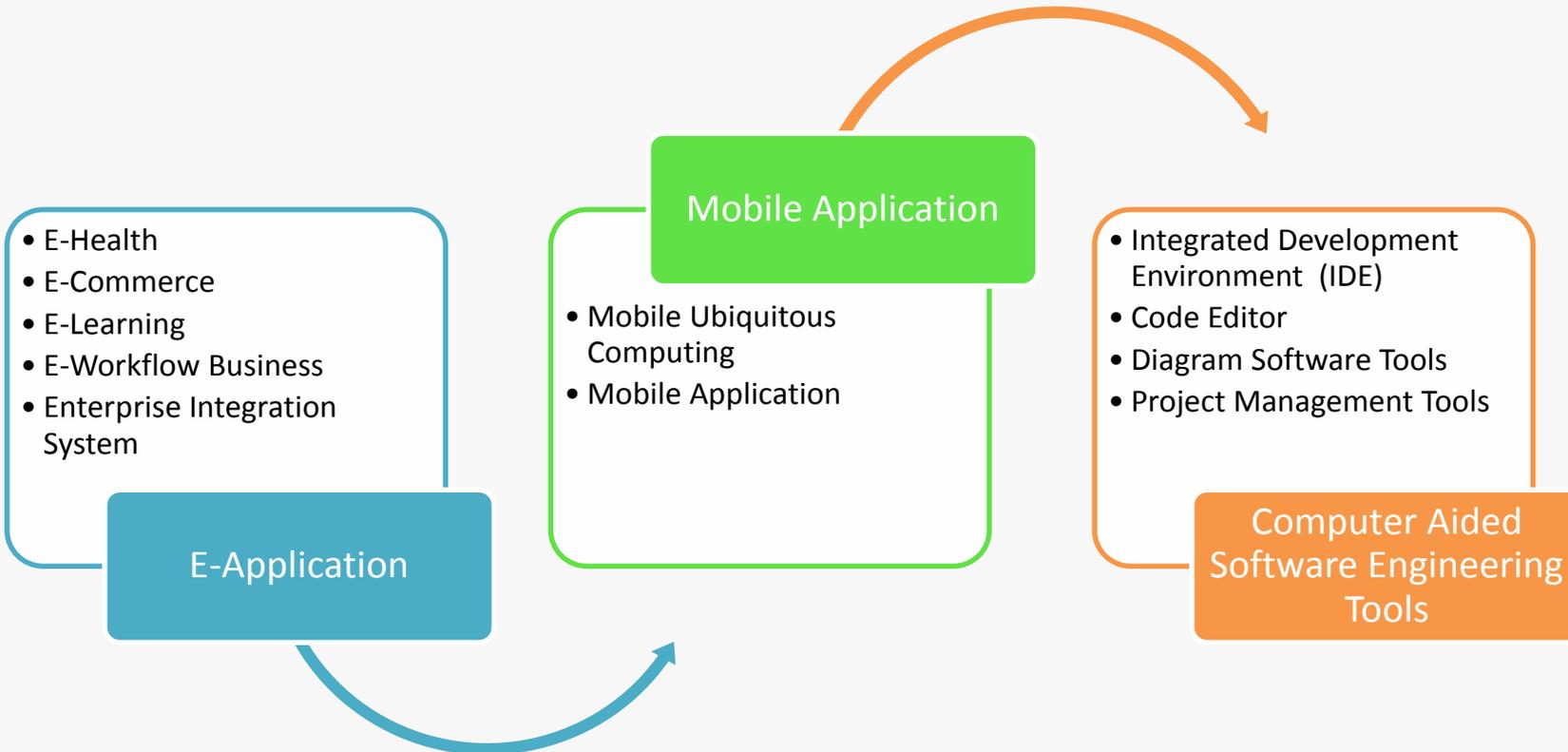
Object Oriented Analysis & Design

- Learn thinking OO Design with UML Tools
- Use UML Tools effectively

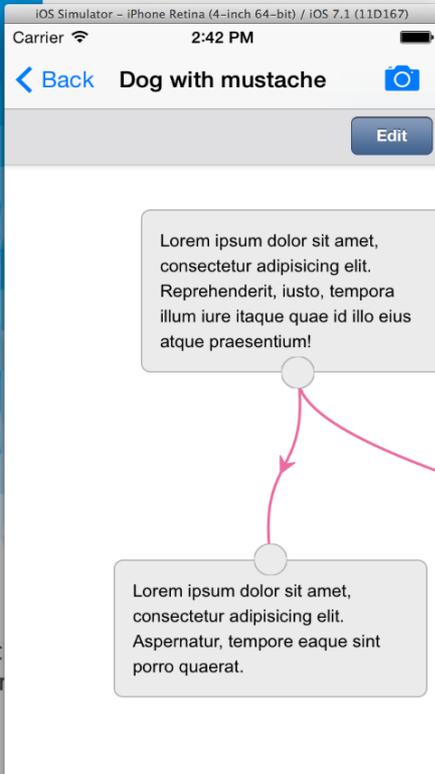
Framework Layer Architecture

- Learn how to create architecture code in Enterprise Level
- Learn from MVC to Enterprise Architecture

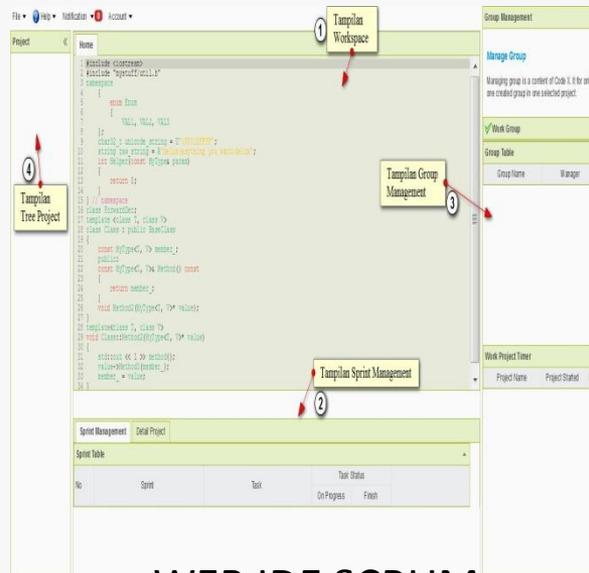
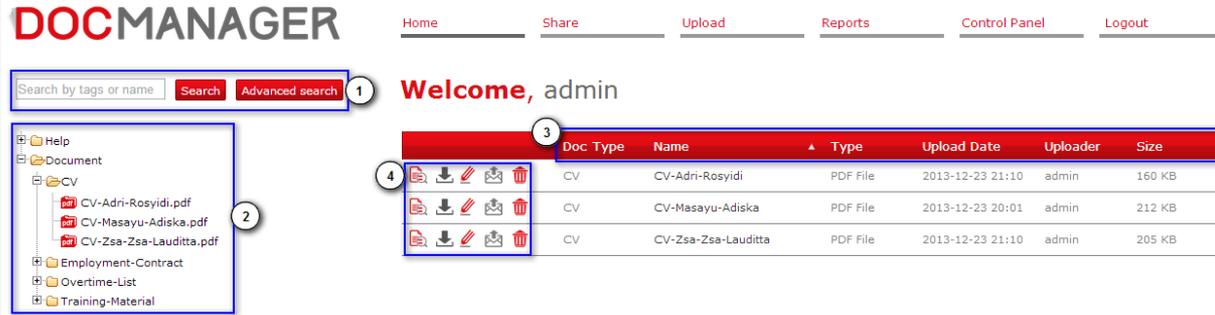
Research Topics



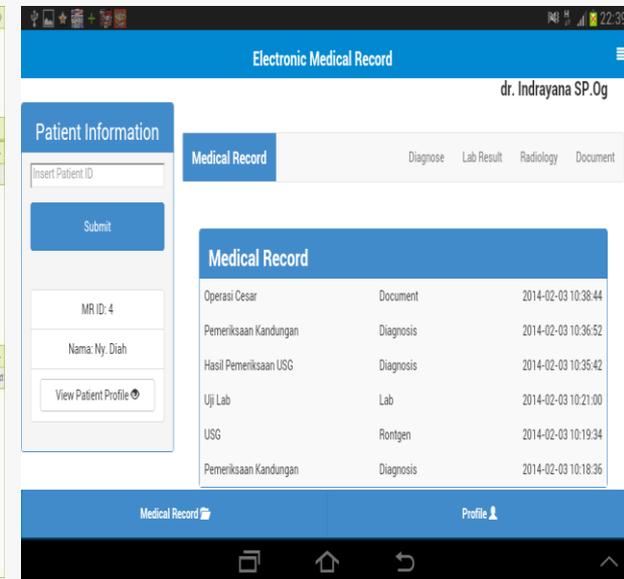
Former Students Thesis



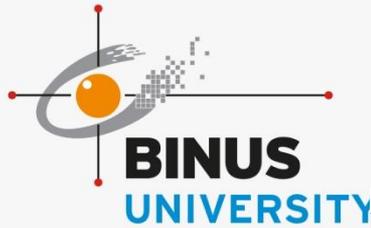
MindKeepin – IOS
OCR MindMap



WEB IDE SCRUM
METHODOLOGY



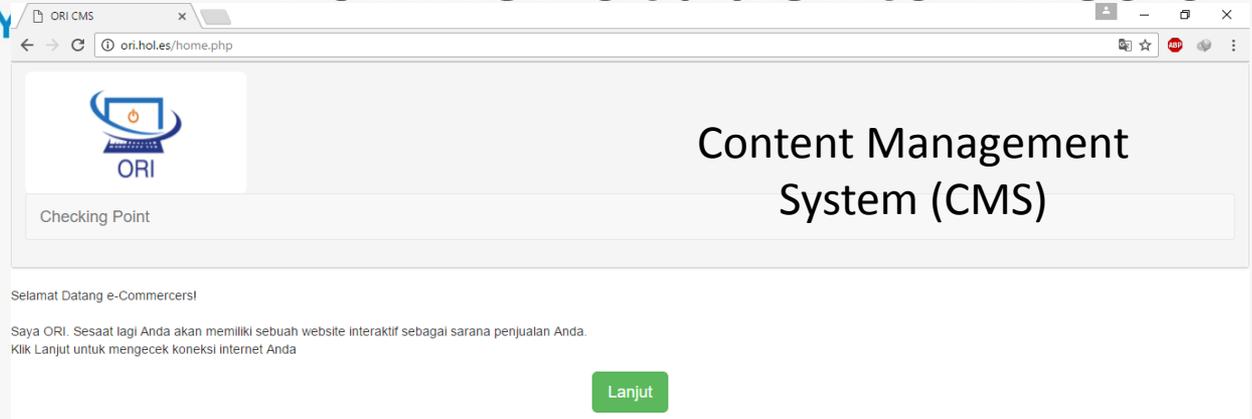
Medical Record System



Former Students Thesis



Smart Traveling



System Penelusuran Publikasi



Mobile Apps – Pencarian Tempat makan

Former Students Thesis

- PENGEMBANGAN APLIKASI PERKIRAAN KEDATANGAN BUS TRANSJAKARTA MENGGUNAKAN GPS DAN WEB SERVICE
- PENGEMBANGAN APLIKASI VIRTUAL MEETING "DOVO" PADA SMARTPHONE BERBASIS ANDROID MENGGUNAKAN TEKNOLOGI VOICE OVER INTERNET PROTOCOL BERBASIS SESSION INITIATION PROTOCOL
- PENGEMBANGAN APLIKASI EVENT ORGANIZER "BOLT EVENT" DENGAN TEKNOLOGI RESTFUL PADA SMARTPHONE ANDROID
- PENGEMBANGAN APLIKASI PENGORGANISASIAN DOKUMEN "LETTERY" PADA SMARTPHONE BERBASIS ANDROID
- PENGEMBANGAN APLIKASI PENGENDALI KOMPUTER JARAK JAUH "ALTERMOTE" MENGGUNAKAN TEKNOLOGI WI-FI PADA SMARTPHONE BERBASIS ANDROID
- PENGEMBANGAN APLIKASI MOBILE BUKU HARIAN UNTUK BAYI PADA PT. DIHARDJA SOFTWARE SOLUTIONS

Former Students Thesis

- LAYANAN PERENCANAAN DAN PENJADWALAN PARIWISATA MASYARAKAT INDONESIA DENGAN KONSEP JEJARING SOSIAL BERBASIS WEB
- PENGEMBANGAN PROTOTYPING APLIKASI NOTESHARING BERBASIS MULTIUSER DENGAN MENGIMPLEMENTASIKAN TEKNOLOGI WEBSOCKET DI TABLET ANDROID
- PENGEMBANGAN E-ORGANIZER EVENT BERBASIS WEB DAN MOBILE DENGAN MENGGUNAKAN TEKNOLOGI NOSQL
- PENGEMBANGAN SISTEM PENGUKURAN BIAYA PEMBUATAN PIRANTI LUNAK
- SISTEM PENGAMBILAN NOMOR ANTRIAN MELALUI PENDEKATAN UBIQUITOUS COMPUTING

SE Career

Management

- Chief Technology Officer
- Chief Information Officer
- IT Consultant

System Development

- Project Manager
- Systems Analyst
- Systems Administrator
- Systems Programmer
- Applications Programmer

Web Specialist

- Web Designer
- Web Programmer
- Web Administrator

Scientist

- Lecturer / Trainer
- Researcher



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