



CPL230-PENGEMBANGAN PERANGKAT LUNAK (PERTEMUAN-1)

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Dosen Pengampu:

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Prodi Teknik Informatika Fakultas Ilmu Komputer

AGILE SOFTWARE DEVELOPMENT

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Topics

- Introduction
- Terminology
- The Agile Manifesto
- Some Agile Methodologies
- Summary
- References

What Is Agile

- Agile --readiness for motion, nimbleness, activity, dexterity in motion
- Agility

The ability to both create and respond to change in order to profit in a turbulent business environment

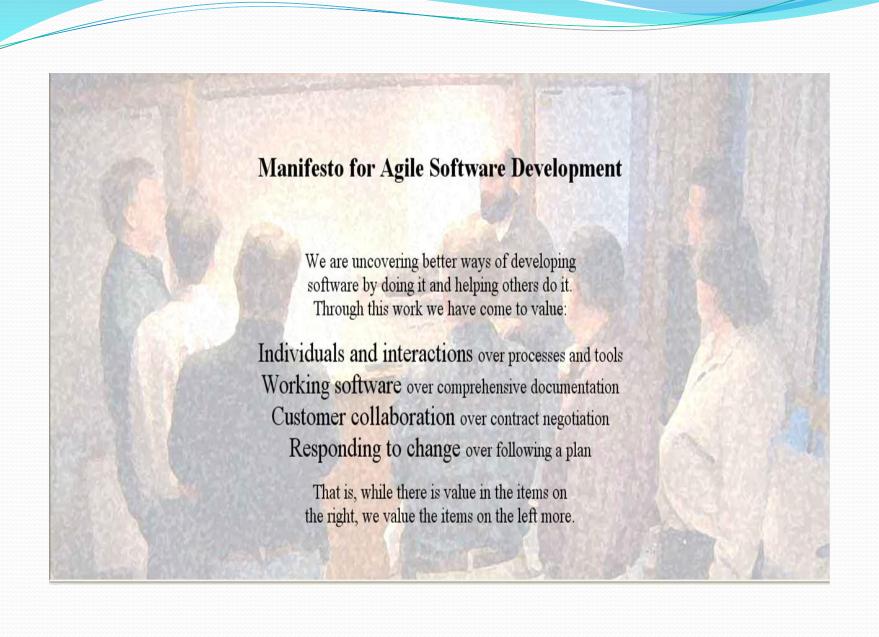
- Companies need to determine the amount of agility they need to be competitive
- Chaordic
 - Exhibiting properties of both *cha*os and *ord*er
 - The blend of chaos and order inherent in the external environment and in people themselves, argues against the prevailing wisdom about predictability and planning
 - Things get done because people adapt, not because they slavishly follow processes

Agile Software Development

- **Agile software development** is a conceptual framework for software engineering that promotes development iterations throughout the life-cycle of the project.
- Software developed during one unit of time is referred to as an iteration, which may last from one to four weeks.
- Agile methods also emphasize working software as the primary measure of progress

Agile Software Development: Intro

- Characteristics of Agile Software Development
 - -- Light Weighted methodology
 - -- Small to medium sized teams
 - -- vague and/or changing requirements
 - -- vague and/or changing techniques
 - -- Simple design
 - -- Minimal system into production



Characteristics

- Modularity
- Iterative
- Time-bound
- Incremental
- Convergent
- People-oriented
- Collaborative

Existing Agile Methods

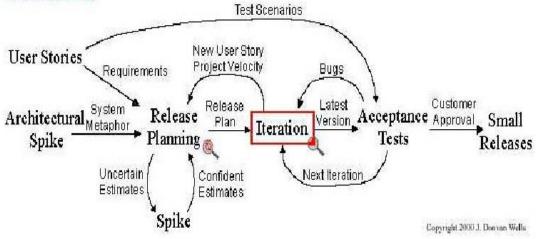
- Extreme Programming ("XP")
- Agile Unified Process
- Scrum

Extreme Programming

- Most prominent Agile Software development method
- Prescribes a set of daily stakeholder practices
- "Extreme" levels of practicing leads to more responsive software.
- Changes are more realistic, natural, inescapable.



Extreme Programming Project



Agile Unified Process

AUP is a simplified version of RUP

Phases of AUP

- Inception
- Elaboration
- Construction
- > Transition

Disciplines of AUP

- Model
- Implementation
- > Test
- Deployment
- Configuration Management
- Project Management
- Environment

Scrum

➤ It is an Agile S/w development method for project management

Characteristics:

- Prioritized work is done.
- Completion of backlog items
- Progress is explained
- Agile Software Development

Conclusion

- Synthesizes the existing literature.
- Each method is described in terms of process, roles, responsibilities, practices, adoption and experiences.
- Enables a selection criteria for comparing methods and pointing out their differences.

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