

CSE4708: Software Project Management

Unit II : Project Evaluation & Estimation

Topic: Process Models

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Agile Developmental Methodology

Agile Development Methodology

- Based on iterative and incremental development, where requirements and solutions evolve through collaboration between **cross-functional teams**.
- **Most Commonly followed** these days
- **Fewer rules and practices** which are easier to follow
- Focuses on **streamlining the SDLC** by **eliminating much of modeling and documentation overhead**.
- It emphasizes **simple, iterative application** development
- The examples of Agile Development Methodology include:
 - Extreme programming (XP)
 - SCRUM
 - Dynamic systems development method (DSDM)
 - Crystal Clear methods.
 - Feature-driven development (FDD)
 - Adaptive software development (ASD)
 - Agile Unified Process (AUP)

Extreme Programming (XP)

- It is based on four core values: **communication, simplicity, feedback, courage and respect.**
- First, the developers must provide **rapid feedback** to the end users on the continuous basis.
- Second, the developers must follow **simplicity principle.**
- The developers must make the **incremental changes to grow the system.**
- The **quality-first mentality** should be obeyed.

Extreme Programming (XP)

- Three key principles that XP uses to create successful systems are **continuous testing, simple and efficient coding and close interaction with the end users**.
- XP is highly based on **refactoring** which is a disciplined way to **restructure code to keep it simple**.
- It starts with **interaction with user** and then the programmers code in small, simple modules and test them to meet those needs.
- It delivers **results sooner than even RAD approaches**