

Agile Processes: Scrum

Introduction

- The two dominant Agile approaches are Scrum and eXtreme Programming (XP).
- XP was arguably the first method deemed to be “Agile”.
- We will start with Scrum – very popular and in very wide use today!

Project Management Emphasis based on a Standard 30-day Sprint

- **Scrum:** a definite project management emphasis.
- **Scrum Master:** A **Scrum project** is managed by a Scrum Master, who can be considered as much a consultant or coach as a manager.
- **Sprint.** Scrum has a fundamental 30-day development cycle called a **Sprint**, preceded by
 - pre-Sprint activities and post-Sprint activities.
- **Daily Scrum:** A short (less than 30 minutes) daily Scrum Meeting allows the team to monitor status and communicate problems.

Product Backlog for Planning

- **Project planning** is based on a **Product Backlog**, which contains
 - functions and
 - technology enhancements
- envisioned for the project.
- Two meetings are held –
 - one to decide the **features for the next Sprint** and
 - the other to **plan out the work**.

Scrum and Scalability

- Scrum: one of the **few agile methods** used to **scale up** for larger projects.
- How done?
 - Accomplished the same way as organizations handle integrated product teams.
 - Individual Scrum team coaches - part of a higher echelon team of coaches spanning several products.
 - This provides for communications to avoid conflicting development issues

Scrum - Queues

- Product Backlog → Sprint Backlog → Sprint → Working increment of the Software
- **Scrum** uses **lightweight queue-based management** and work-breakdown mechanisms.
- **Product Backlog queue:** a low-tech customer-managed queue of demand requests for products.
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- **Sprint:** At launch time, a Sprint (30-day time-boxed iteration) does **just-in-time planning**
- **Sprint Backlog:** queue for Sprint work-mgmt.

Scrum - Management

- **Daily Scrum:** Very notable and very visible
- Is a **daily standup**,
 - **except** that it is the **team** that is participating and sharing coordination information **not** a **central project manager**.
- **Scrum Master**
 - holds daily scrum and
 - acts more as a **facilitator** and **runs interference** for the core team when **blocks** or **issues** arise.
(Kennaley, SDLC 3.0, p. 31)