Process Overview

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AMOS B01

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Project Goal

To deliver useful software at the end of the project that can be developed further.

Software Development Process

- 1. Scrum Process Practices
- 2. XP Technical Practices

Scrum in Student Projects

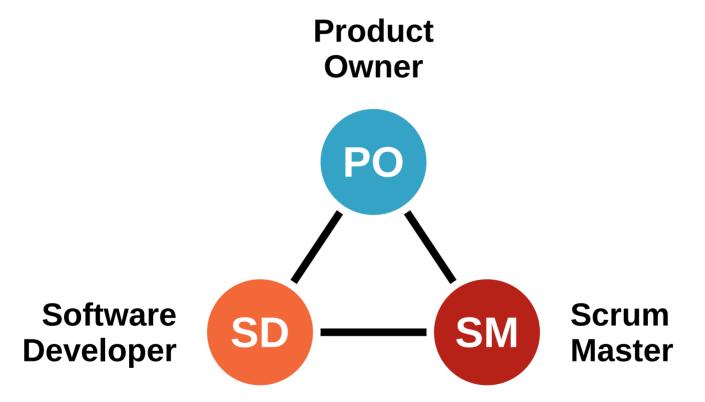
Challenges

- Widely differing abilities and experiences
- Not 100% on project, but in multiple courses
- Transient rather than persistent teams
- Not available at same place, not at same time
- Sometimes extrinsically motivated (grades)

Solution

- Context-aware instantiation of framework
- Coach supporting student Scrum Master

Scrum Roles



Core ("Committed") Role Responsibilities

Definition of product owner

- Holds overall responsibility for the product being developed
- Provides product vision and product requirements
- Plans and helps plan development and tracks progress

Definition of software developer

- Holds overall responsibility for design and implementation of product
- Estimate complexity ("size") of product features to be implemented
- Organizes and allocates design and implementation tasks

Definition of Scrum master

- Holds overall responsibility for following Scrum properly
- Is responsible for tracking and resolving impediments
- Observes and coaches team members and skills
- Together they form the Scrum team

Additional Role Responsibilities

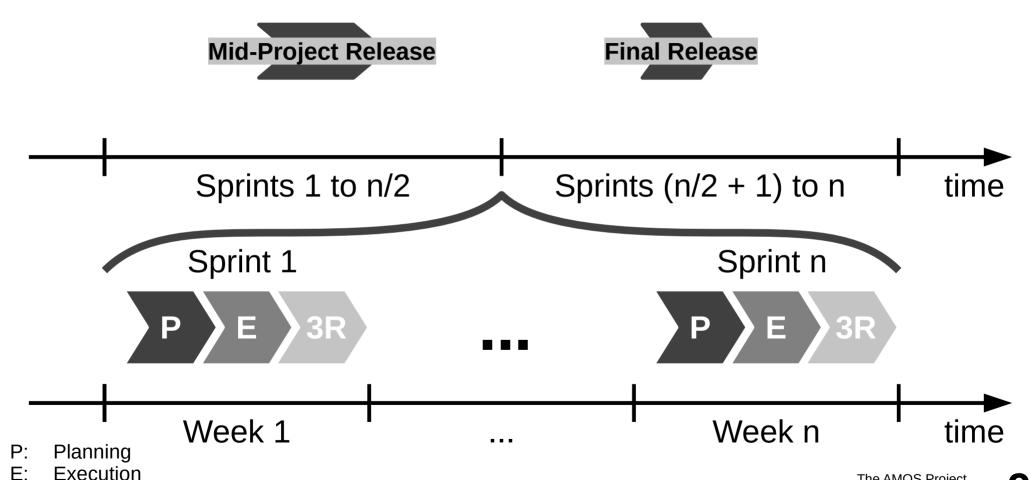
- Definition of release manager
 - Holds overall responsibility for reviewable and releasable product
 - Prepares the product for review in sprint review
 - Releases the product after agreement

Industry Partner Responsibilities

- Definition of industry partner
 - Provides high-level requirements
 - Provides feedback in defined intervals
 - See industry guidance at http://bit.ly/2IhUFRn

Overall Project Time-Line

Review, release, and retrospective

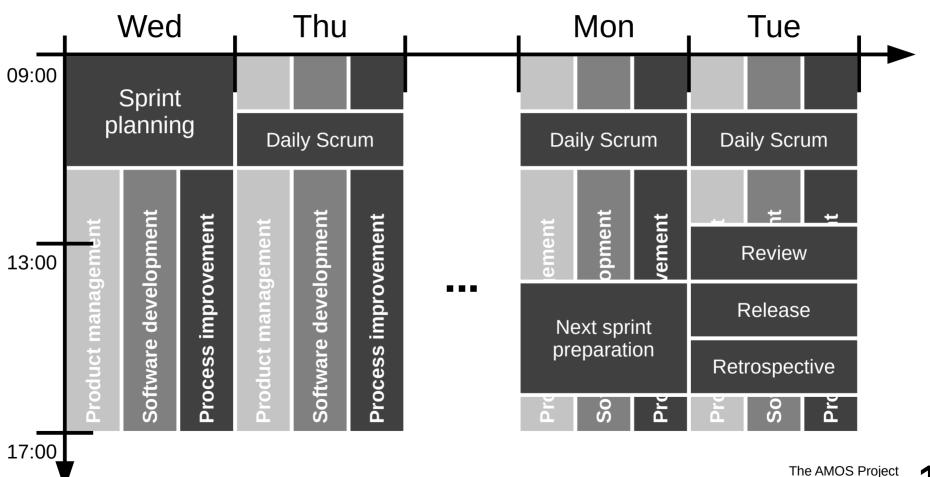


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Time-boxed Sequence of Releases

- Definition of release
 - A named, identifiable, consistent, and useful snapshot of the software and related relevant artifacts
- Definition of sprint release
 - A release used to gather feedback from industry partner to help steer the project (every week)
- Definition of project release
 - A release used to deploy for production (twice during the semester: mid-term and at end of semester)

The Scrum Sprint (Conceptualization)



Project Schedule

See the Schedule tab of the Course Organization doc

Thank you! Questions?

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