
Agile Project Management

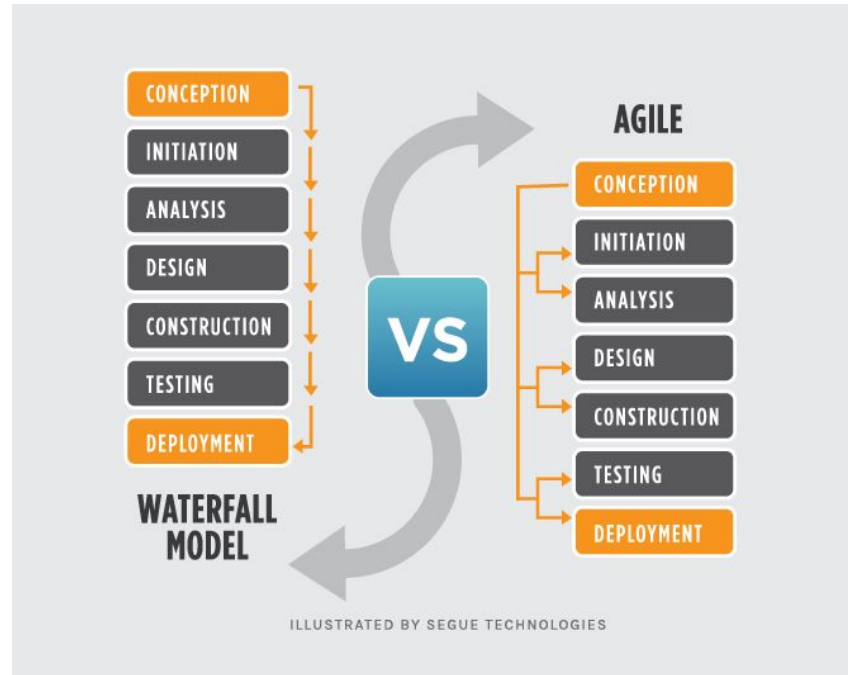
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Overview

Objectives:

- Understand Waterfall vs. Agile
- Understand Kanban vs. Scrum

Waterfall vs Agile



Waterfall

Pros

- Clear objectives from the start
- Less management overhead

Cons

- Slow development cycle time.
 - Steps are sequential / linear
 - Not flexible
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Agile

Agile

Pros

- Customer has frequent opportunities to adjust goals
- Iterative - Fail Fast mentality
- Get MVP out quicker

Cons

- Requires more management
 - Potential for more refactoring
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Agile

Two Major Types of Agile Workflows

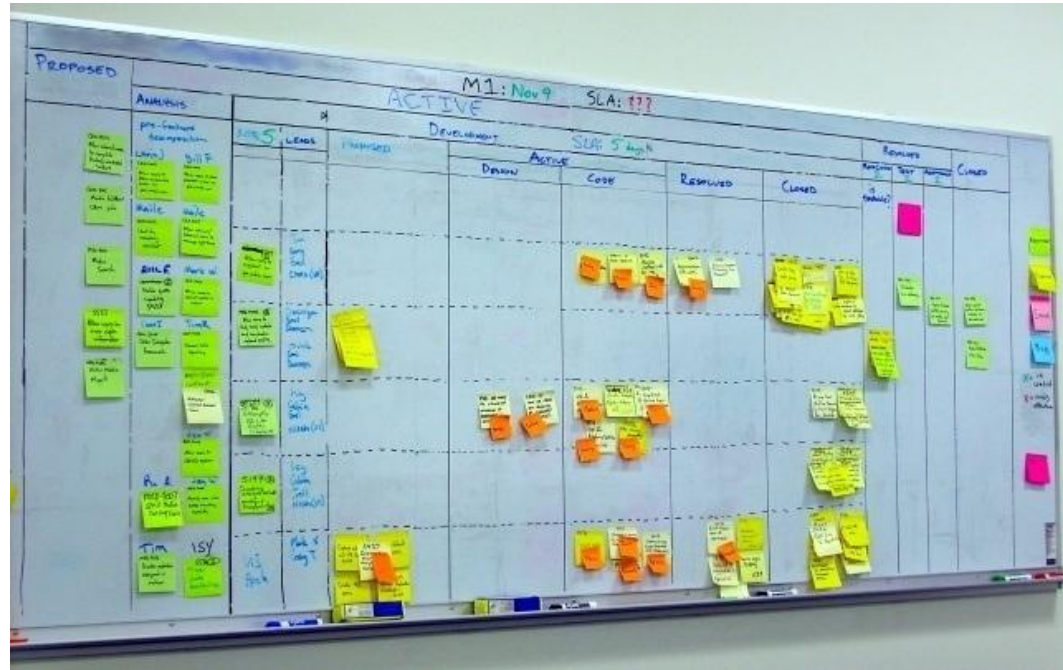
- Kanban
 - Scrum
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Kanban

Typical Kanban Process

- Focus on incremental improvements
 - Project parts broken into “pipelines” and “WIPs”
 - Set a WIP Limit to prevent bottle-necks
 - Often projects are tracked using boards
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Kanban Board



Scrum

Typical Scrum Process

- Focus on Cross Functional teams
 - Break work into short sprints
 - Hold frequent meetings to track progress
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Scrum Ceremonies

There Are Four Main Ceremonies

- **Sprint Planning** - Team meeting to plan goals of the next coding sprint
 - **Daily Stand-Up** - A daily scrum meeting for the software team to sync
 - **Sprint Demo** - Meeting to display what was accomplished in the last sprint
 - **Sprint Retrospective** - Review of what did and did not work from the last sprint (*help to improve the next one*)
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Capstones

Our Process

We Will Combine

- Sprint Planning
- Daily Stand-Up

Typically about 15 - 20 minutes

Scrum Roles

Instructors Will Act As

- **The Scrum Master** - who resolve impediments and distractions from the team
 - **The Product Owner** - who are non-technical managers aiming at making the deliverable fit user needs. Some meetings are informal one-on-one, while others are formal team meetings.
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Day-to-Day

The Next Two Weeks

- Stand-Up will happen nearly everyday
- Sprint Planning will be part of the Stand-Up
- Sprints will be set up with end dates determined by your Scrum Master
- Scrum Masters will also document progress and do occasional code reviews

More lengthy meetings should be set up outside of Stand-Up

References

References

<http://www.agileweboperations.com/scrum-vs-kanban>

<http://www.seguetech.com/waterfall-vs-agile-methodology/>

<https://www.atlassian.com/agile/ceremonies>
