



Agile Methodology for Rice

- Understand the agile methodology and tools being used on the current project at Rice
- Discuss how your projects can benefit from agile

- Calendar for Agile project
- Scrum Overview
 - Backlog Structure
 - User stories
 - Prioritization
 - Estimation
- Tools
- Your projects

Calendar

NOVEMBER 2018

| Su | Mo | Tu | We | Th | Fr | Sa |
|----|----|----|----|----|----|----|
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | |

Sprint 1

Sprint 2

DECEMBER 2018

| Su | Mo | Tu | We | Th | Fr | Sa |
|----|----|----|----|----|----|----|
| | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 | | | | | |

6

NOV 6th

Sprint 1 Planning

12

NOV 12th

Backlog Grooming 1

16

NOV 16th

Sprint 1 Review
Sprint 1 Retrospective

19

NOV 19th

Sprint 2 Planning

29

NOV 29th

Backlog Grooming 2

6

DEC 6th

Sprint 2 Review
Sprint 2 Retrospective

7

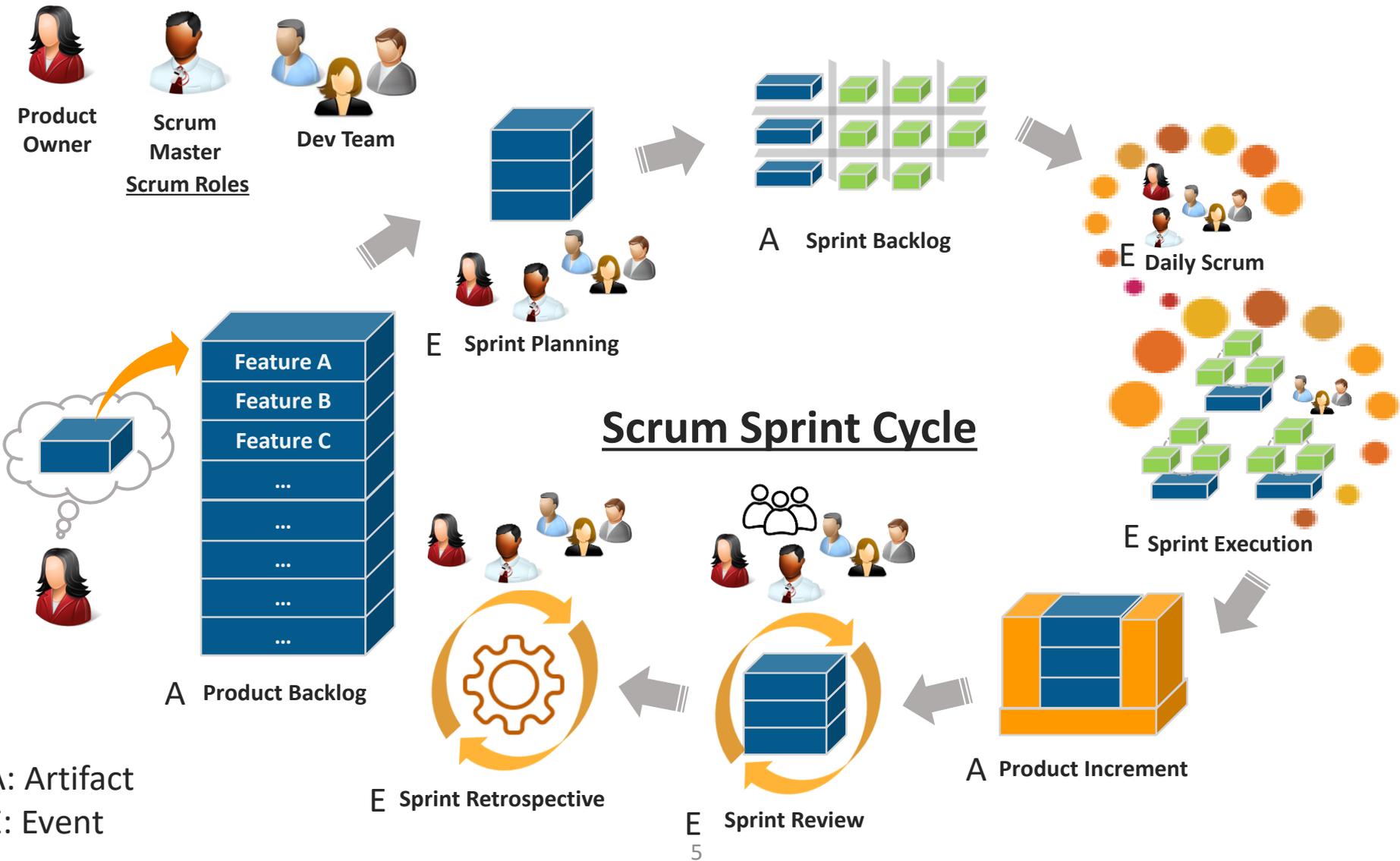
DEC 7th

Project Review
Lessons Learned

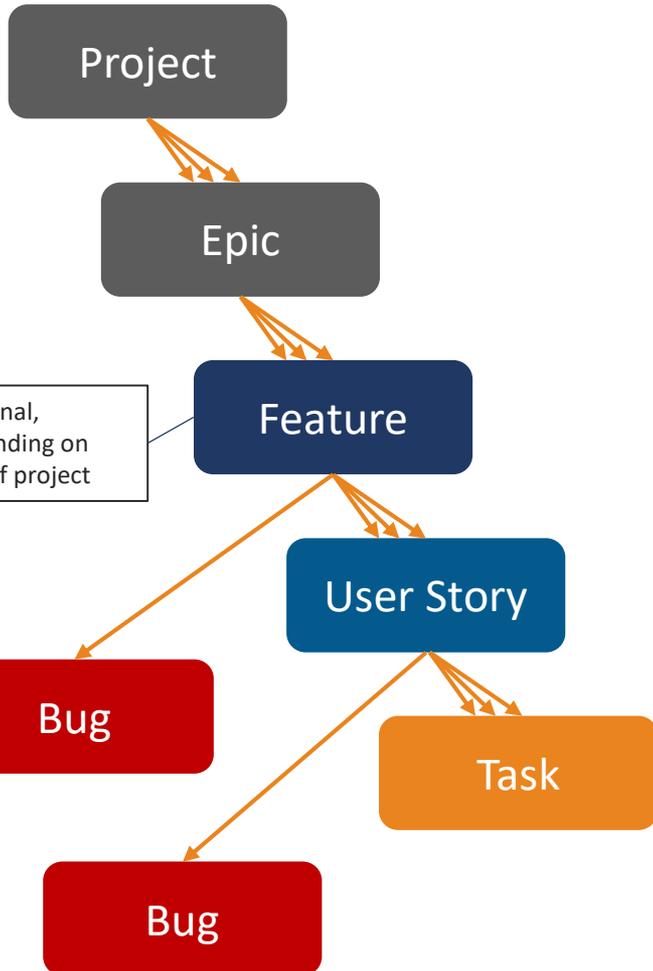
Nov 7 – Dec 6

Daily Standup Meetings

Scrum Overview



Backlog Structure



- ➔ Rice University Agile Data Project
- ➔ Regulatory Reports
- ➔ Financial Aid Reporting
- ➔ As a Rice University CFO, I want to automatically know the amount of financial aid we provide, so that I can accurately report it to the Department of Education
 - Extract Financial Aid Data from data lake
 - Anonymize data
 - Auto assess data for accuracy



Functionality that is of value to the end user, written in the form of a scenario

- **As a** [end user of the required feature]
- **I want** [actual thing the user wants to be able to do once the feature is live]
- **So that** [why they want this feature / the benefit this feature brings]

For example:

As a frequent traveler I want see my upcoming trip details on my phone so that I can plan accordingly.

Estimation

- Is the story “Ready” to start development?
- How many hours will it take to bring this user story to “Done”?
- Estimation can be done at the “Task” level then aggregated for User Story
- Rough Order of Magnitude

Estimation Example

| | | | | |
|-----------------|-----------------------------|------------|-------------|--|
| High Complexity | 5 | 8 | 13 | Many unknowns, not been done before |
| Med Complexity | 3 | 5 | 8 | Some unknowns, path to completion not very clear |
| Low Complexity | 1 or 2 | 3 | 5 | No unknowns, clear path to completion |
| | Low Effort | Med Effort | High Effort | |
| | 1 - 0-8 hrs 2 - 8-16 hrs | 24 hrs | 40 hrs | |



Business Value- Relative value to the customer or business

- Preference of this over that



Time Criticality- How user/business value decays over time

- Is there a fixed deadline?
- Will they wait for us or move to another solution?



Risk Reduction/Opportunity Enablement- What else does this do for our business

- Reduce the risk of potential issue?
- Is there value in the information we will receive?



Job Size- Time to complete the feature

- How big/experienced is the team?
- How many user stories are there?

Kanban Board

| Story | Ready | Blocked | In Progress | Testing | Done |
|--------------|--------|---------|------------------|---------|--------|
| User Story 1 | Task A | | Task B Task C | | |
| User Story 2 | | Task D | | | |
| User Story 3 | | | Task E Task F | Task G | |
| User Story 4 | | | Task H | Task I | Task J |

Tasks have definitions of done & are determined to be ready

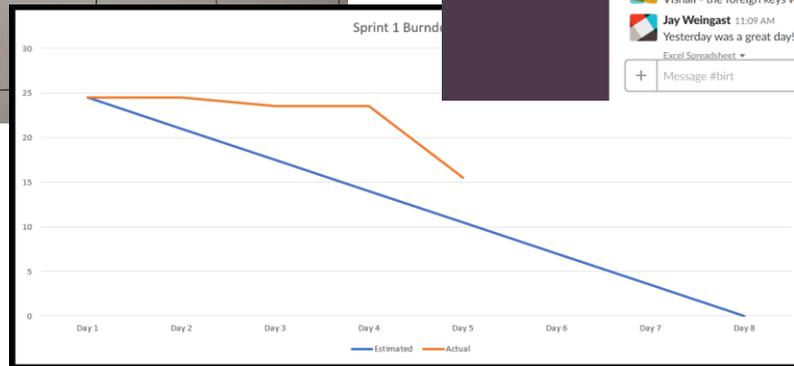
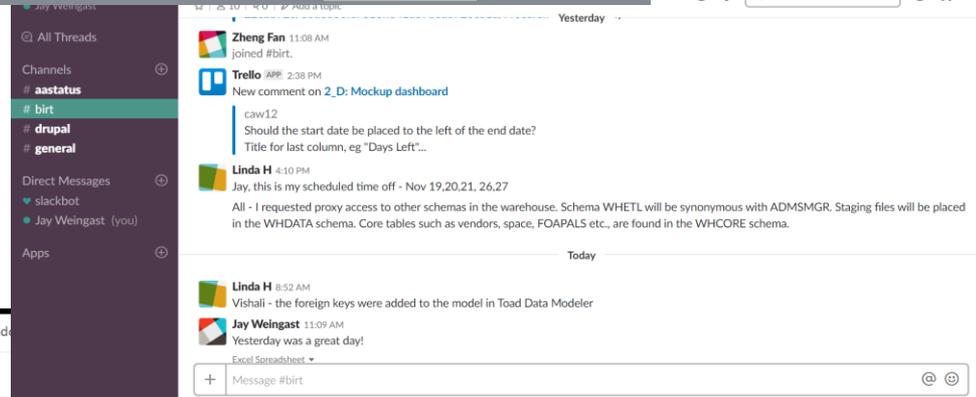
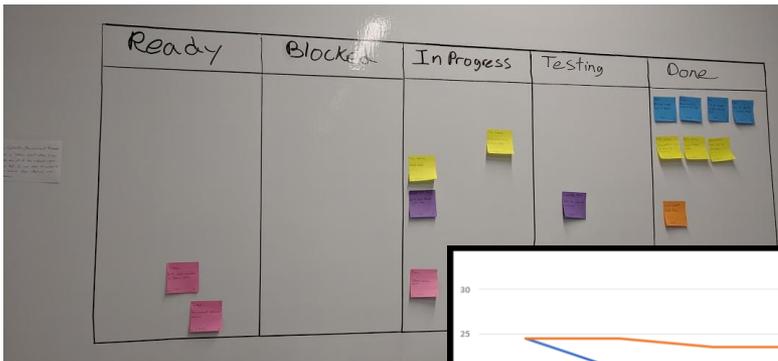
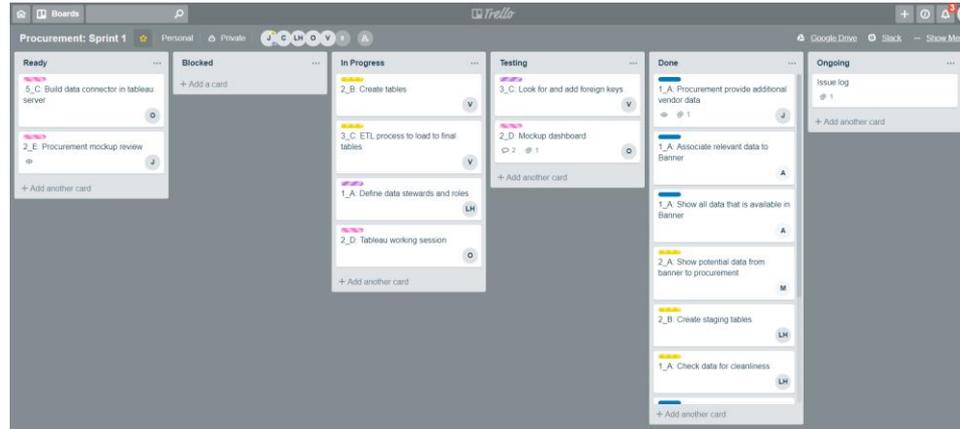
A task is unable to be worked on while a roadblock exists

The Dev Team is actively working to complete a task

Development is complete and testing is in progress

The task is complete and ready for inspection

- Trello
- Slack
- Excel
- White board





**What about
your projects?**