

# Agile Software Development for Developers

## Session 2

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# Review

- Introduction
  - ▶ Paradigm and paradigm shift
  - ▶ Agility: An elephant in the dark
- Agility: A definition
- Agile Software Development in a Nutshell
  - ▶ Values
  - ▶ Principles
  - ▶ Practices
- How it works: the Cynefin
  - ▶ Clear, Complicated, Complex, Chaotic, Disorder
- 5 quizzes

# Retrospective

- More practical
- Special focus on beginners
- Sessions for experts

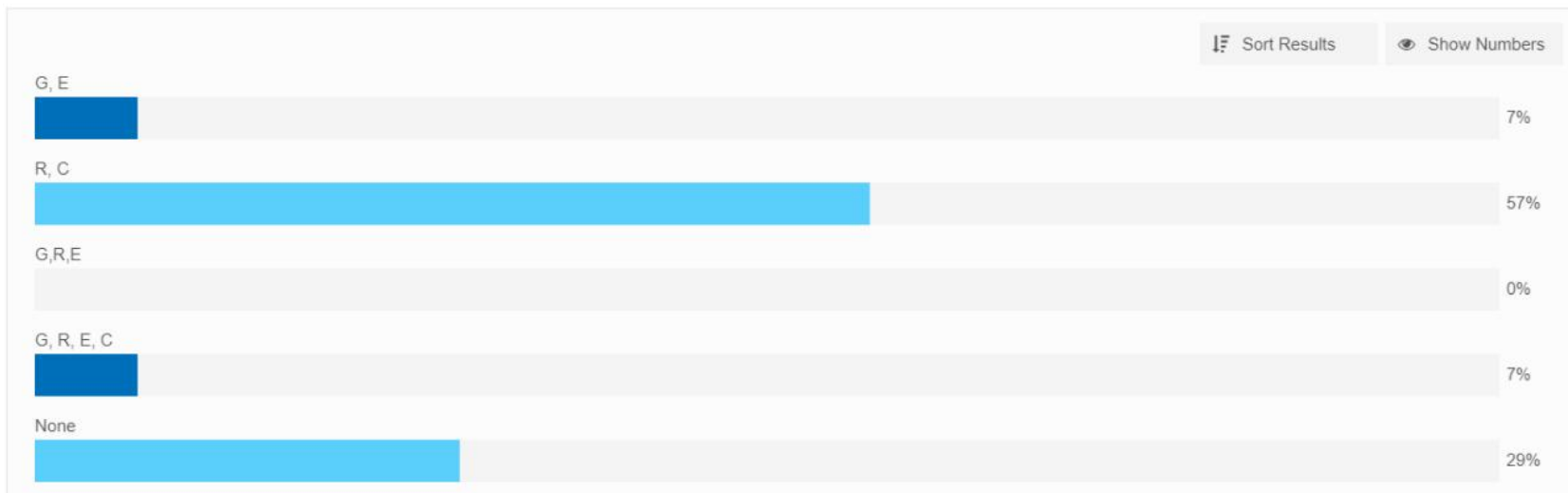
## Q1

Q1. Which one is an agile animal? Cheetah (C), Elephant (E), Giraffe (G), Rabbit (R)

- ☐ G, E
- ☐ R, C
- ☐ G,R,E
- ☐ G, R, E, C
- ☐ None

[Vote](#)[Results](#)

## Results Breakdown - Part 2 / 6



## Q2

Q2: Suppose you are a team leader. There are 3 tasks (2 are in progress and 1 has not started yet) and also 2 of 5 team members are idle. What do you think about first?

☐ idle team members

☐ in process tasks

☐ not started task

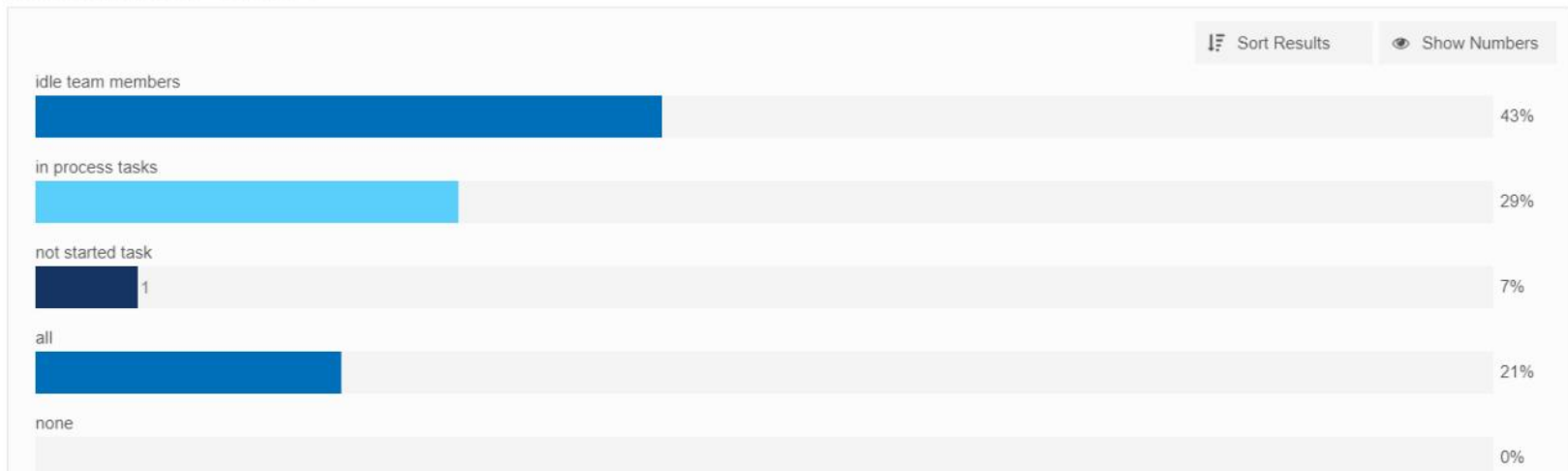
☐ all

☐ none

Vote

Results

## Results Breakdown - Part 2 / 6



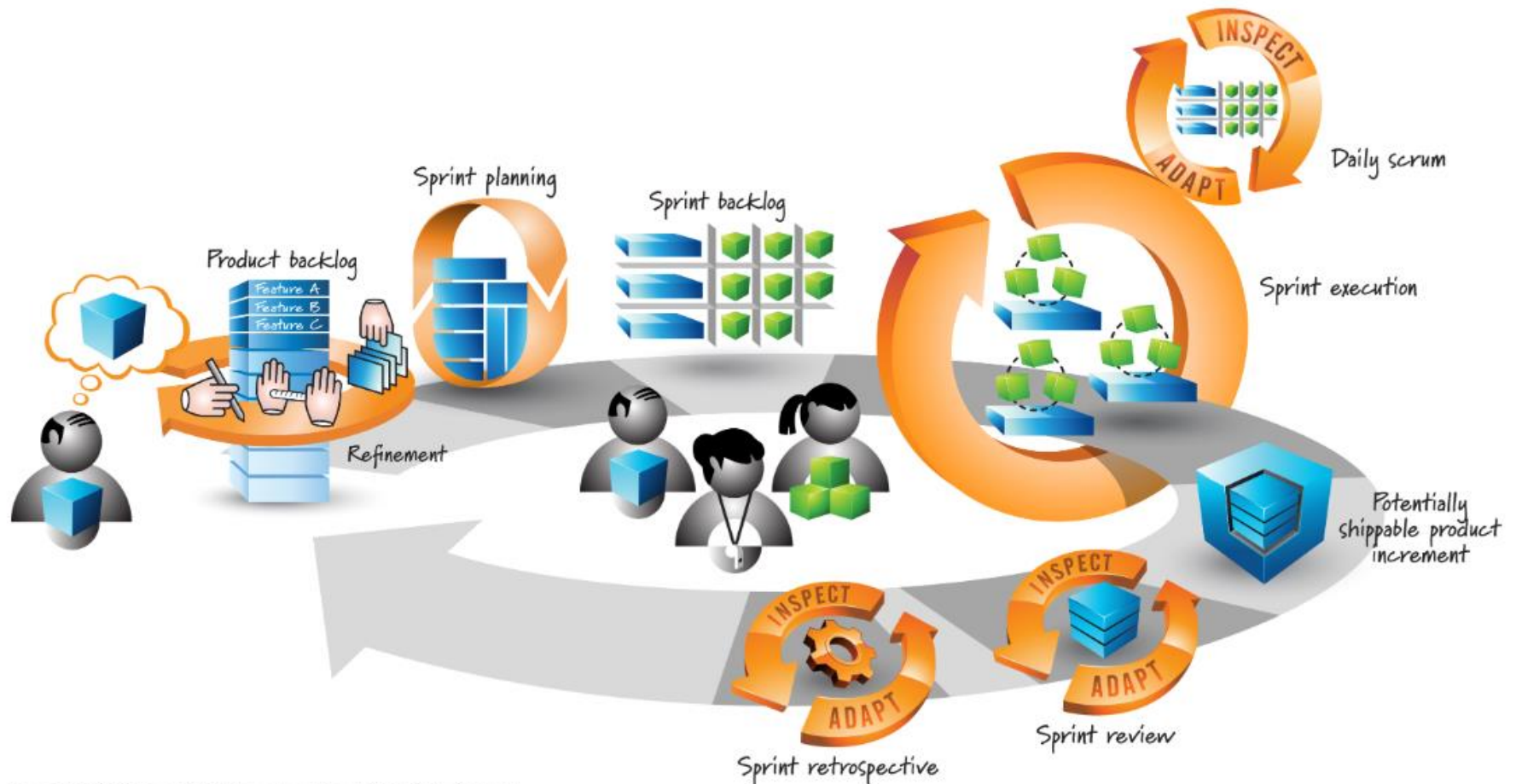
# Agenda

- Sprint: An Overview
- User Story
- Acceptance Criteria

**Scrum**

***Sprint***

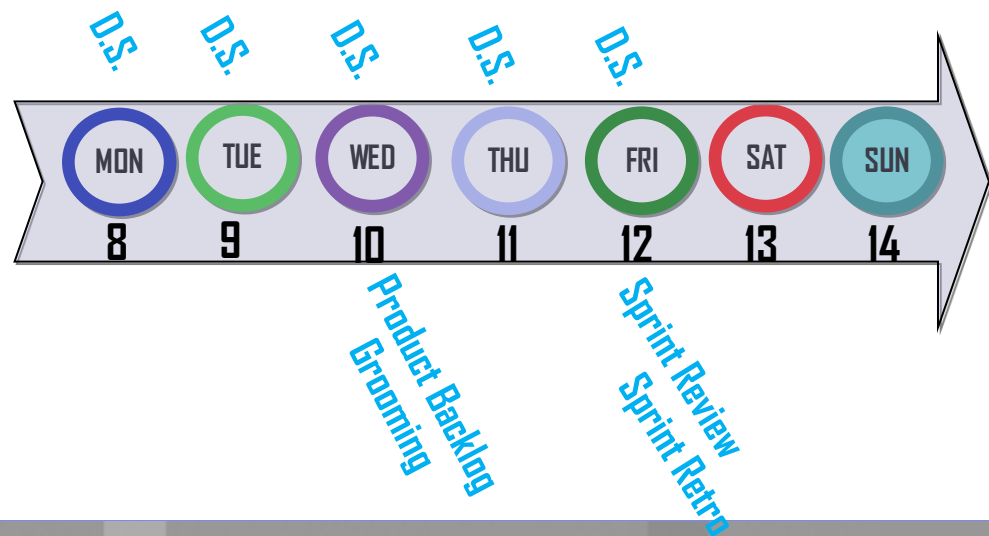
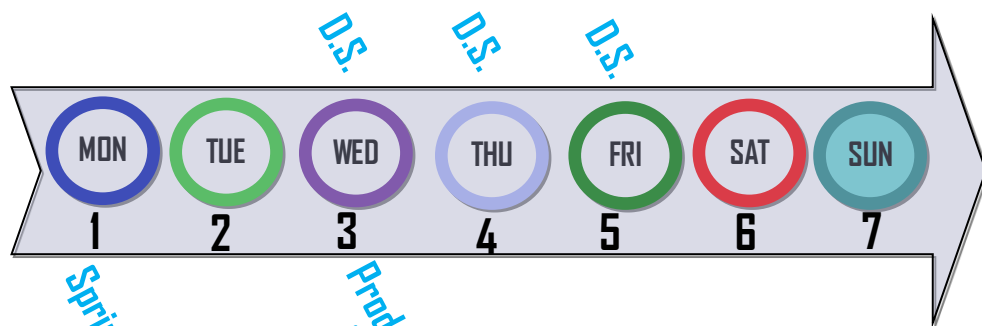
# Why is Scrum like this?





# Sprint Timeline

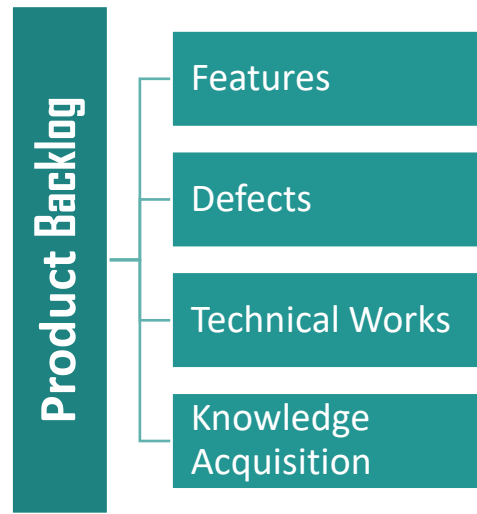
1



**Backlog**

***User Story***

# Product Backlog



1. **Features:** Most PBI are features and they are often written as **user stories**
2. **Defects (Bugs):** They need to be repaired.
3. **Technical works:** They are technical improvements for example “upgrade to the latest version of the SQLServer DBMS.”
4. **Knowledge acquisitions (Spikes):** Some works we do to learn more for example "Create a prototype or proof of concept of two architectures for video streaming and run three tests to determine which would be a better approach for our product."

# User Story

- **User stories** are short, simple descriptions of a feature told from the perspective of the person who desires the new capability, usually a user or customer of the system.
- A simple template for user story:
  - ▶ As a < type of user >, I want < some goal > so that < some reason >.
- Another view:
  - ▶ As a (**who wants to accomplish something**)
  - ▶ I want to (**what they want to accomplish**)
  - ▶ So that (**why they want to accomplish that thing**)
- Who, What, Why
  - ▶ What is missed?

# Fast Food: User Story and Task



## Example (Mike Cohn, Scrum Alliance)

- As a bank customer, I want to withdraw money from an ATM so that I'm not constrained by opening hours or lines at the teller's
  
- Scrum Alliance website:
  - ▶ As a site visitor, I can read current news on the home page so that I stay current on agile news.
  
  - ▶ As a site admin, I can delete any course or event, so I can remove things that will no longer occur.
  
  - ▶ As a site member, I can search for profiles based on a few fields (class attended, location, name) so I can find others I might want to connect with.

## Your Turn: Pizza (Order pizza)

- As a customer I want to ... so that ...



# Your Turn: Meetup Application





## Acceptance Criteria

- The external quality characteristics specified by the product owner from a business or stakeholder perspective. Acceptance criteria define desired behavior and are used to determine whether a product backlog item has been successfully developed.
- The exit criteria that a component or a system must satisfy in order to be accepted by a user, customer, or other authorized entity (IEEE 610).

# Acceptance Criteria

## ■ Story

### ▶ Title:

- Strong password

### ▶ Description:

- As a user, I am required to enter a strong password when creating my account so that I follow the company's security policy.

### ▶ Acceptance criteria:

- Must have at least 8 characters
- Must contain at least 1 digit
- Must contain at least 1 uppercase letter
- Must contain at least 1 lowercase letter
- Must contain at least 1 symbol



# User Story in Azure DevOps

The screenshot shows a 'PRODUCT BACKLOG ITEM 1\*' in Azure DevOps. The item title is '1 Strong password', which is highlighted with a red box. Below the title, it is assigned to 'Unassigned' and has '0 comments'. A metadata section shows 'State' as 'New', 'Area' as 'agile-4-devs', and 'Iteration' as 'agile-4-devs\Sprint 1'. The 'Description' section, also highlighted with a red box, contains the text: 'As a user, I am required to enter a strong password when creating my account so that I follow the company's security policy.' Below this, the 'Acceptance Criteria' section, highlighted with a red box, lists five requirements: 'Must have at least 8 characters', 'Must contain at least 1 digit', 'Must contain at least 1 uppercase letter', 'Must contain at least 1 lowercase letter', and 'Must contain at least 1 symbol'. A rich text editor toolbar is visible at the bottom of the acceptance criteria section.

PRODUCT BACKLOG ITEM 1\*

1 Strong password

Unassigned 0 comments Add tag

State ● New Area agile-4-devs  
Reason 📁 New backlog item Iteration agile-4-devs\Sprint 1

Description

As a user, I am required to enter a strong password when creating my account so that I follow the company's security policy.

Acceptance Criteria

- Must have at least 8 characters
- Must contain at least 1 digit
- Must contain at least 1 uppercase letter
- Must contain at least 1 lowercase letter
- Must contain at least 1 symbol

Rich text editor toolbar: Bold, Italic, Underline, Bulleted list, Numbered list, Link, Unlink, Text color, Background color, Text background color, Code, @, #, Insert link, Insert image, Undo, Redo.

# Acceptance Criteria

## ■ Story

### ▶ Title:

- Strong password

### ▶ Description:

- As a user, I can log in through a social media account so that I don't need to remember my username and password.

### ▶ Acceptance criteria:

- Can log in through Facebook
- Can log in through LinkedIn
- Can log in through Twitter

## Your Turn: Pizza (Order pizza)

- As a customer I want to ... so that ...



# Your Turn: Meetup Application



# Thanks

- Faezeh Eshragh
- Reza Moghaddas Jafari
- Hossein Nassiri
- Reza Rahmati
- Mohammad Nadi

