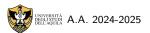
User Stories

[DT-0540] Metodi di sviluppo agile

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Introduction to Agile Hierarchy

Agile Hierarchy Overview:

- Agile work items are organized into a hierarchy to manage features, functionality, and tasks efficiently.
- The hierarchy typically starts with broad, high-level concepts (Themes), and becomes more detailed (Tasks) as you break them down.

Levels:

 $\bullet \ \, \textbf{Themes} \rightarrow \textbf{Epics} \rightarrow \textbf{User Stories} \rightarrow \textbf{Tasks} \\$

Purpose:

• Helps teams structure large bodies of work into manageable pieces that can be delivered incrementally.

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Breaking Down Large User Stories

https://geekbot.com/blog/epics-stories-themes-tasks/



What is a Theme?

Definition:

- A Theme is a broad, high-level objective that encompasses several Epics and User Stories.
- Themes group related functionality or goals that align with a larger business need or product vision.

Purpose:

 Themes help align the work of multiple teams toward achieving large-scale business objectives.

Example:

• Theme: Improve the user experience of the e-commerce platform.

What is an Epic?

Definition:

- An Epic is a large body of work that can be broken down into smaller, more manageable user stories.
- It represents a significant feature or functionality but is too large to complete within a single Sprint.

Purpose:

 Epics allow teams to work on large features incrementally by breaking them into smaller parts (User Stories).

Example:

• Epic: Implement a new checkout process.

What is a User Story?

Definition:

- A User Story is a small, specific piece of functionality that delivers value to the end user.
- It follows the template: "As a [user], I want to [perform an action], so that [benefit]."

Purpose:

 User Stories break down Epics into smaller, actionable work items that can be completed in a single Sprint.

Example:

• As a user, I want to save my payment information, so that I can check out faster.

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What is a Task?

Definition:

- A Task is a specific piece of work needed to implement a User Story.
- Tasks are technical in nature and describe what needs to be done to complete the story.

Purpose:

 Tasks allow the Development Team to break down the work required to complete a User Story into small, actionable steps.

Example:

- Task: Write the API to store payment information securely.
- Task: Implement front-end form validation for payment details.

Relationship Between Themes, Epics, User Stories, and Tasks

Hierarchy:

- Themes group related Epics around broad objectives.
- **Epics** are large features or functionalities that need to be broken down into smaller parts.
- User Stories represent individual pieces of functionality, focused on user needs.
- Tasks are the actionable steps required to complete each User Story.

Example:

- Theme: Improve customer experience.
- Epic: Redesign the account management section.
- User Story: As a user, I want to update my email address, so that I can receive notifications.
- Task: Create the front-end form for updating email addresses.

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Example of a Theme and its Breakdown

Theme: Enhance Mobile Experience

- **Epic:** Create a mobile-friendly version of the checkout process.
- **User Story 1:** As a user, I want to use mobile payment options, so that I can check out easily on my phone.
- User Story 2: As a user, I want the product images to resize on mobile, so that I can see details clearly.
- Task 1: Implement the Apple Pay and Google Pay APIs.
- Task 2: Write CSS for responsive product images.

Benefits of Using Themes, Epics, User Stories, and Tasks

1. Focus on Value:

 This hierarchy ensures that all work items are focused on delivering value to the user.

2. Manageable Work:

 Breaking down work into Themes, Epics, User Stories, and Tasks ensures that large objectives can be delivered incrementally.

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Benefits of Using Themes, Epics, User Stories, and Tasks

3. Clear Organization:

• The hierarchy provides a structured approach to organizing work, making it easier to track progress.

4. Flexibility:

 Teams can reprioritize or adapt User Stories and Tasks as new information becomes available, without affecting the broader Theme or Epic.

Best Practices for Managing Themes, Epics, User Stories, and Tasks

1. Prioritize Based on Value:

 Focus on Epics and User Stories that deliver the most value to the customer.

2. Refine Epics and Stories Regularly:

 Continuously refine and break down Epics and Stories into smaller, more actionable items as the project evolves.

Best Practices for Managing Themes, Epics, User Stories, and Tasks

3. Keep Stories Small and Actionable:

 User Stories should be small enough to be completed within a single Sprint.

4. Ensure Tasks are Clear:

 Make sure that each Task has a clear definition and can be easily understood by the team.

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What are User Stories?

Definition:

- A User Story is a short, simple description of a feature told from the perspective of the user or customer.
- It describes what the user needs and why, written in non-technical language.

Goal:

 The purpose is to capture user requirements without detailing the technical implementation.

Structure:

• User stories are part of the Product Backlog in Agile, helping the team focus on the value delivered to the user.

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The Structure of a User Story

Template:

As a [type of user], I want to [perform an action], so that [achieve a goal].

Elements:

- **User Role:** The type of user interacting with the feature.
- Action: What the user wants to do.
- Goal/Benefit: The reason why the user wants to perform the action.

Example:

• As a customer, I want to receive a confirmation email after placing an order, so that I know my order was successful.

Who Writes User Stories?

Product Owner:

- The Product Owner is typically responsible for creating and prioritizing user stories.
- They ensure the stories align with the overall product vision and customer needs.

Development Team:

- The team collaborates with the Product Owner to refine and estimate the user stories.
- They ensure that the stories are actionable and technically feasible.

Users/Stakeholders:

 Users and stakeholders may contribute by providing feedback or specific needs that the Product Owner turns into user stories.

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Example of a Good User Story

Example:

As a frequent traveler, I want to save my payment information, so that I can check out faster when booking flights.

Why It's Good:

- Clearly identifies the user (frequent traveler).
- Specifies the action (save payment information).
- Provides a benefit (check out faster when booking flights).

Focus on Value:

 This story focuses on delivering value to the user by simplifying the checkout process.

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INVEST Criteria for Good User Stories INVEST Acronym:

- Independent: The story should be self-contained.
- Negotiable: The details can be discussed and modified.
- Valuable: It should deliver clear value to the user.
- Estimable: The team should be able to estimate the effort required.
- Small: It should be small enough to be completed in a single iteration.
- Testable: The story should have clear acceptance criteria to validate completion.

Example:

- "As a user, I want to reset my password, so that I can regain access to my account."
- Testable criteria: "The system sends a password reset email when a user requests it."

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Acceptance Criteria

What are Acceptance Criteria?

- These are specific conditions that must be met for the user story to be considered complete.
- Acceptance criteria define the scope and boundaries of the story, ensuring that it meets the user's expectations.

Example:

"As a user, I want to be able to search for products, so that I can find items quickly."

Acceptance Criteria:

- The search function should display relevant products based on the search term.
- The search results should appear within 2 seconds.
- The user should be able to filter search results by category and price.

Breaking Down Large User Stories

Why Break Down Large Stories?

- Some user stories, known as "epics," are too large to be completed in a single iteration.
- Breaking down epics into smaller stories ensures that each piece of work can be completed within a Sprint.

Example:

- Epic: "As a user, I want to manage my profile, so that I can update my personal information."
- Smaller Stories:
 - "As a user, I want to update my email address, so that I can receive notifications."
 - "As a user, I want to update my profile picture, so that I can personalize my account."

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Common Mistakes to Avoid

1. Epics that are too vague:

 Avoid writing Epics that lack enough detail to break down into Stories.

2. Stories that are too large:

 Ensure User Stories are small and actionable, rather than trying to accomplish too much in a single Story.

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Common Mistakes to Avoid

3. Tasks that lack clarity:

 Every Task should be clearly defined with specific actions, so the team knows exactly what needs to be done.

4. Losing sight of the Theme:

 Always ensure that the work aligns with the broader Theme, keeping the end goal in mind.

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Example of a User Story Lifecycle

Lifecycle Stages:

- Drafting: The Product Owner writes an initial user story based on stakeholder input.
- **Refinement:** The Development Team collaborates to refine the story, clarify requirements, and add acceptance criteria.
- Development: The story is selected for the Sprint and the team works on implementing the feature.
- Review: The feature is demonstrated during the Sprint Review, and stakeholders provide feedback.
- **Completion:** The story is marked as done once it passes the acceptance criteria and feedback is incorporated.

Common Mistakes in Writing User Stories

Too Vague or Broad:

- "As a user, I want a better dashboard."
- Solution: Focus on specific improvements (e.g., "As a user, I want to see my account balance on the dashboard, so that I can quickly check my finances.").

Technical Language:

- Avoid writing stories in technical jargon (e.g., "As a user, I want an AJAX request to update the page content asynchronously.").
- Solution: Keep it user-focused (e.g., "As a user, I want the page content to update without reloading, so that I have a smooth experience.").

Best Practices for Writing User Stories

Keep it User-Focused:

 Write from the perspective of the user or customer, not the system or developer.

Collaborate:

 Involve the team in refining and breaking down stories to ensure they are actionable.

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Best Practices for Writing User Stories

Prioritize Value:

 Focus on the stories that provide the most value to the user or customer.

Clear Acceptance Criteria:

 Ensure every user story has well-defined acceptance criteria to confirm when the story is complete.

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