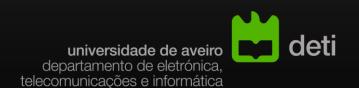
47006- ANÁLISE E MODELAÇÃO DE SISTEMAS

Metodologias ágeis e user stories

Ilídio Oliveira

V2023/05/02



Learning objectives for this lecture

Characterize the principles of backlog management in agile projects

Define and write stories for a given product.

Distinguish use story estimation and prioritization.

Write the acceptance criteria part of a user story.

Compare user stories and use cases with respect to commonalities and differences.

Describe the PivotalTracker story-based development workflow.

Requirements elicitation by exploring user-centered scenarios

A. Use cases

UML support. Main "origin": I. Jacobson.

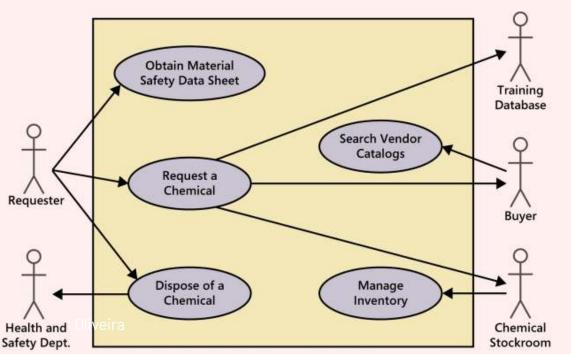
B. User stories

Agile-centric. Main "origin": M. Cohn.

- C. User-centered design (UCD)
- D. Customer Journey Map (Experience maps)

Use cases way

8/22/13 Created By: Lori Date Created: Primary Actor: Requester Secondary Actors: Buyer, Chemical Stockroom, Training Database The Requester specifies the desired chemical to request by entering its name or chemical ID Description: number or by importing its structure from a chemical drawing tool. The system either offers the Requester a container of the chemical from the chemical stockroom or lets the Requester order one from a vendor. Requester indicates that he wants to request a chemical. Trigger: Preconditions: PRE-1. User's identity has been authenticated. PRE-2. User is authorized to request chemicals. PRE-3. Chemical inventory database is online. Postconditions: POST-1. Request is stored in the CTS. POST-2. Request was sent to the Chemical Stockroom or to a Buyer. Normal Flow: 4.0 Request a Chemical from the Chemical Stockroom 1. Requester specifies the desired chemical. 2. System lists containers of the desired chemical that are in the chemical stockroom, if any. 3. System gives Requester the option to View Container History for any container. 4. Requester selects a specific container or asks to place a vendor order (see 4.1). 5. Requester enters other information to complete the request. 6. System stores the request and notifies the Chemical Stockroom. Alternative Flows: 4.1 Request a Chemical from a Vendor



3. Requester selects a vendor, container size, grade, and number of containers.

2. System displays a list of vendors for the chemical with available container sizes, grades,

4. Requester enters other information to complete the request.

1. Requester searches vendor catalogs for the chemical (see 4.1.E1).

is the request and notifies the Buyer.

al Is Not Commercially Available

ays message: No vendors for that chemical. Requester if he wants to request another chemical (3a) or to exit (4a).

asks to request another chemical.

rts normal flow over. asks to exit.

minates use case.

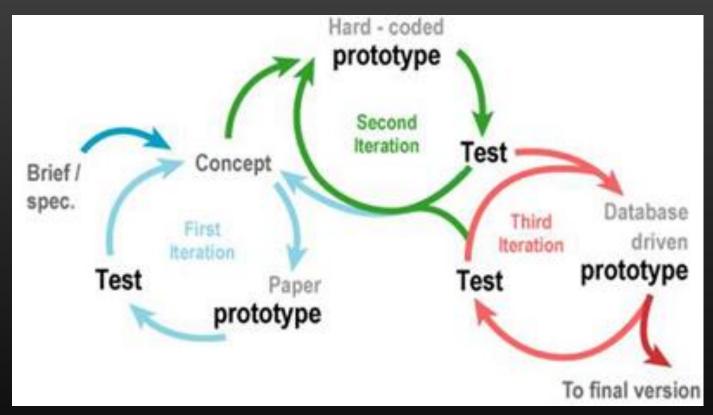
ID and Name:

UC-4 Request a Chemical

and prices.

5 times per week by each chemist, 200 times per week by chemical

UCD: prototyping & acceptance



https://www.museumsandtheweb.com/mw2 007/papers/brown/brown.html

Rail Europe Experience Map

Guiding Principles

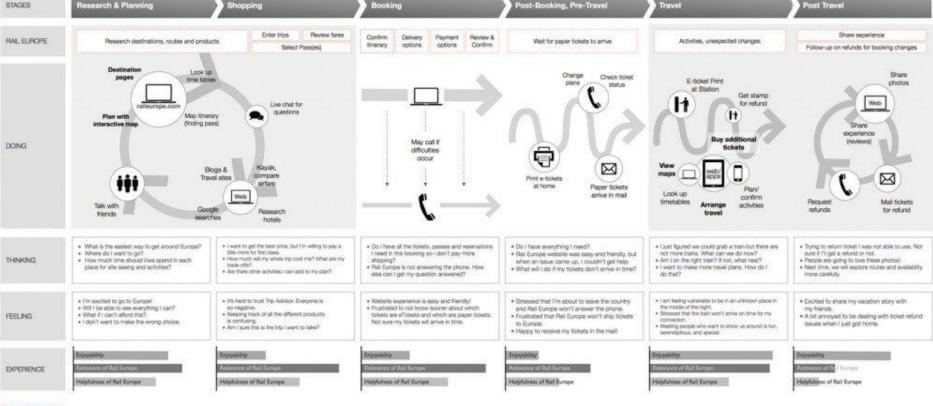
People choose rail travel because it is convenient, easy, and flexible.

Rail booking is only one part of people's larger travel process.

People build their travel plans over time.

People value service that is respectful, effective and personable.

Customer Journey



Opportunities GLOBAL			PLANNING, SHOPPING, BOOKING			POST-BOOK, TRAVEL, POST-TRAVEL	
Communicate a clear value proposition.	Help people get the help they need. STAGIS: Global	Support people in creating their own solutions.	Enable people to plan over time.	Visualize the trip for planning and booking. STACE: Planning, Stacong	Arm customers with information for making decisions. STAGES Shopping Booking	Improve the paper ticket experience. STAGES POST-BOOKING, Tavel, POST-Tavel	Accommodate planning and booking in Europe too.
Make your customers into better, more savvy travelers.	Engage in social media with explicit purposes.		Connect planning, shopping and booking on the web. SUGES Parring Stopping Booking	Aggregate shipping with a reasonable timeline.		Proactively help people deal with change. STAGES Past Broking, Taveling	Communicate status clearly at all times. 579.063: Post-Booking, Post Travel

Information sources

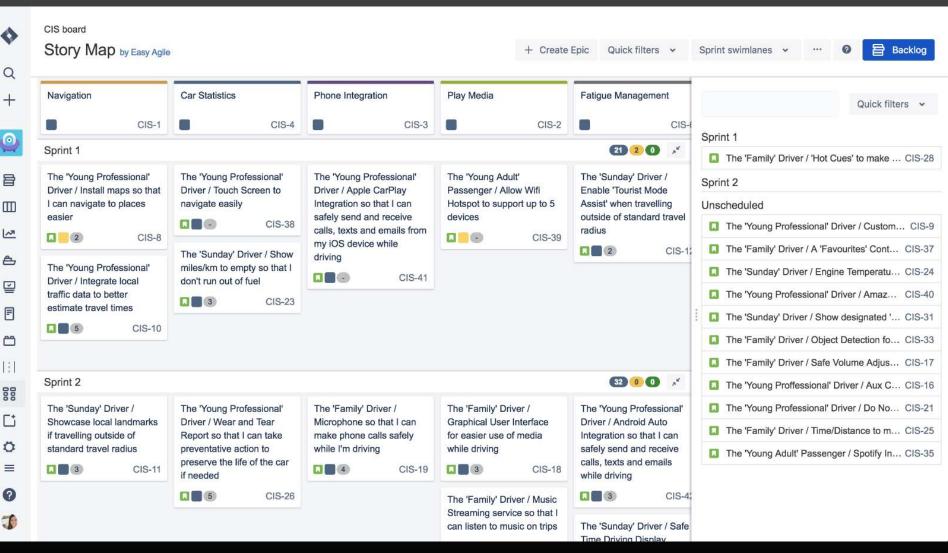
Stakeholder interviews Cognitive walkthroughs **Customer Experience Survey** Existing Rail Europe Documentation







User stories



Use cases e os métodos ágeis \rightarrow Use Cases 2.0

A granularidade dos casos de uso pode ser excessiva

para a gestão do dia-a-dia da equipa de desenvolvimento

Proposta Use Cases 2.0

- "Fatias" de funcionalidade
- Ponto de partida: use cases
 - ...com a flexibilidade das user stories/use case slices





Unidade mais conveniente: "fatia" de funcionalidade

7. browse and shop

priority: MUST

release: 1

síze: very large complexity: hígh

a use case and its properties captured on a sticky note

7.1 select and buy 1 product

flows: BF test: 1 product, default payment, valid details

5

7.3 support systems unavailable

flows: BF, A9, A10, A1, A12 test: select product, provide information, disconnect each system in between 13

7.2 select and buy 100 products

flows: BF test: 100 products, default payment, valid details some slices from the use case captured on their own sticky notes

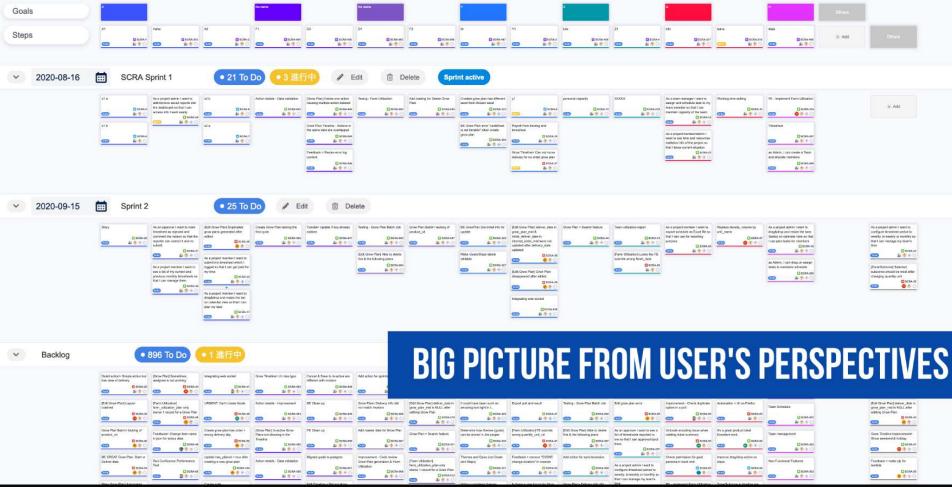
A metáfora do "post-it"

- Granularidade adequada para distribuir o trabalho
- Rastreabilidade para os requisitos (cenários de uso)
- Alguns "post-it" por iteração



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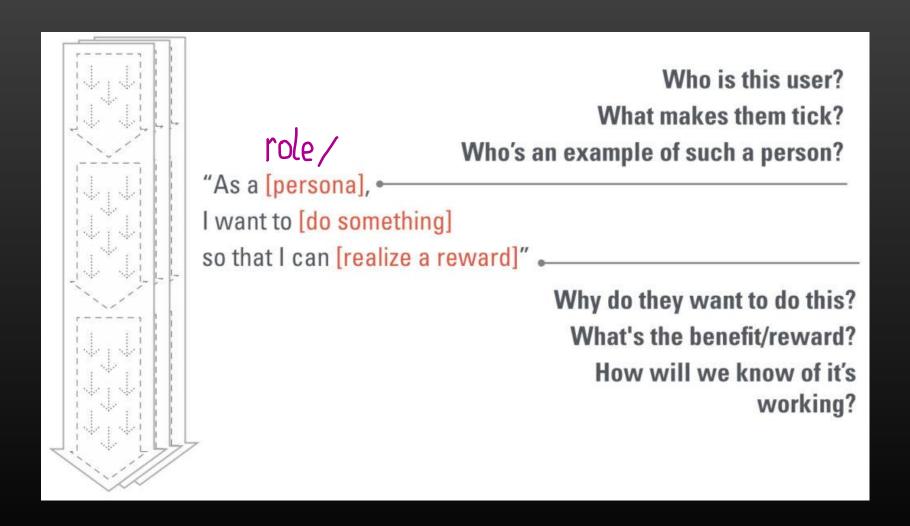
A metáfora do post-it numa ferramenta de planeamento ágil (Jira com plug-in)



https://www.devsamurai.com/en/agile-user-story-mapping-for-jira/

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The story should clarify how to check if it is working

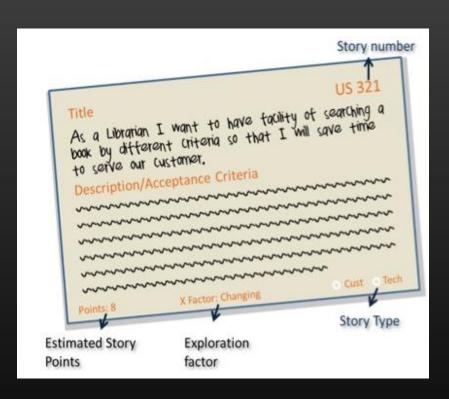


User stories in agile methods

The backlog is the prioritized list of user stories —requirements— for the product and their allocation to upcoming iterations (called sprints in the agile development method called Scrum.)

User story: a "short, simple description of a feature told from the perspective of the person who desires the new capability, usually a user or customer of the system" (Cohn 2010)

User story != use case



→ See <u>examples</u>

Exemplo

Histórias adequada:

- O gestor de RH publica nova oferta de emprego.
- Um Candidato pode limitar quem pode ver o seu currículo

Histórias desadequadas:

- O software será implementado em Python.
- O programa irá ligar-se à base de dados através de uma "connection pool" (reutilização de ligações já abertas)

Anotação informal do que é descoberto nas "conversas" Users can view information about each job that is matched by a search.

Marco says show description, salary, and location.

Story Card 1.2 A story card with a note.

"Fatiar" os cenários de uso para tornar o trabalho mais concreto, gerível e segmentado

A equipa de projeto e o cliente/promotor começam a discutir requisitos sobre as motivações de uso:

"Um Candidato (a um emprego) pode publicar um currículo (no site)".

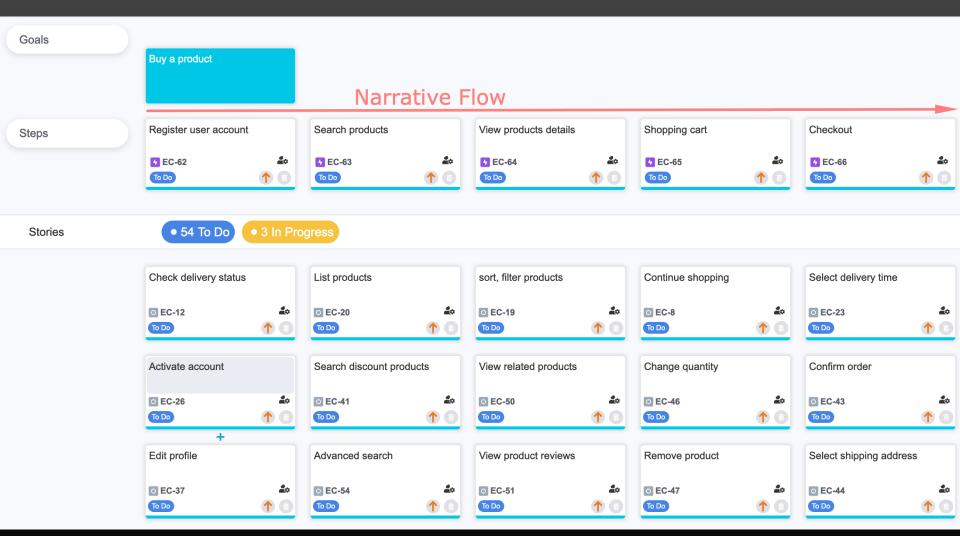
Objetivo de alto nível ←→ caso de utilização.

Essa "história" será expandida à medida que os detalhes forem descobertos através de conversas / colaboração. →

Um possível desenvolvimento em histórias (user stories):

- Um Candidato pode adicionar um novo currículo ao site.
- Um Candidato pode editar um currículo que já está no site.
- Um Candidato pode remover o currículo do local.
- Um Candidato pode mudar o estado do CV para inativo/ativo.
- Um Candidato pode marcar um currículo como escondido para certos empregadores.
- Um Candidato pode ver as vezes que o seu currículo foi consultado

→ ver: <u>exemplo relacionado</u>



https://www.devsamurai.com/en/agile-user-story-mapping-for-jira/

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Boas ou más histórias?

- a The user can run the system on Windows XP and Linux.
- b All graphing and charting will be done using a third-party library.
- c The user can undo up to fifty commands.
- d The software will be released by June 30.
- e The software will be written in Java.
- f The user can select her country from a drop-down list.
- g The system will use Log4J to log all error messages to a file.
- h The user will be prompted to save her work if she hasn't saved it for 15 minutes.
- i The user can select an "Export to XML" feature.
- j The user can export data to XML.

Pode-se usar um template para apresentar a história



Find Reviews Near Address

As a typical user I want to see unbiased reviews of a restaurant near an address so that I can decide where to go for dinner.

FIGURE 5.2 A user story template and card

As histórias devem conter um benefício percetível para o utilizador!

Automatic Builds

As a developer I want the builds to automatically run when I check in code so that regression errors are detected when they are introduced.

180liveira

Undesirable technical story

Estratégia para redigir a história

As histórias dos utilizadores são frequentemente escritas de acordo com a seguinte estrutura (mas há outros estilos):

Sendo <papel de utilizador>, quero <ação/funcionalidade pretendida> de modo a <satisfação obtida>

As a <type of user>, I want <some goal> so that <some reason>.

US001

As a customer, I want to add an item into shopping cart.

E.g.:

Sendo um <u>cliente</u>, quero <u>receber um SMS</u> <u>quando o artigo chegar</u> de modo a que <u>eu possa ir buscá-lo</u>.

<role> representa a pessoa, o sistema, o subsistema ou qualquer outra entidade que interaja com o sistema a ser implementado para atingir um objetivo. É quem obtém valor da utilização do sistema.

<business objetive> representa uma expectativa de um utilizador sobre algo que pode realizar interagindo com o sistema.

<benefício> representa o valor resultante por da interação com o sistema. Pode ser omitido, se for óbvio (decorrente do ponto anterior).

→ ver <u>exemplos</u>

Epic (épico): "grande" objetivo do utilizador

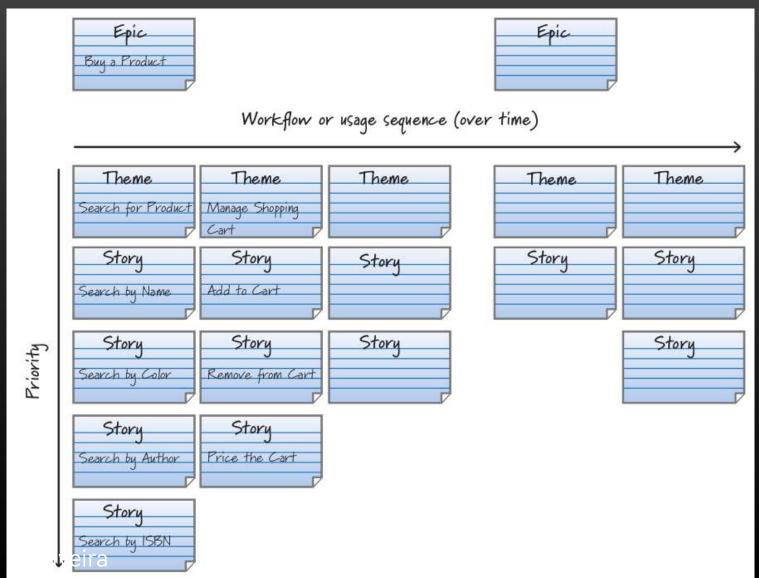
Quando uma história é muito "grande" (apresentada em alto nível), às vezes é referida como um épico.

Os Épicos podem ser divididos em várias histórias de tamanho menor.

Por exemplo, o épico "Um utilizador pode usar o site para procurar um emprego" poderia ser dividido em várias histórias:

- Um utilizador pode procurar empregos por atributos como localização, intervalo salarial, designação da oferta, nome da empresa, e a data em que o trabalho foi postado.
- Um utilizador pode visualizar informações detalhadas sobre cada oportunidade que seja encontrada numa pesquisa.
- Um utilizador pode ver informações detalhadas sobre uma empresa que publicou um trabalho.

À procura das histórias



EASY AGILE USER STORY MAPS ARIJEA

Epic	select movie buy movie watch movie social actions the high level activities a user will accomplish while using the product
Story	
	under each activity the team adds user stories that support the activity
Sprint	Sprint 3
	sequencing work allows the team to plan what they will deliver and when

An example epic, "March 2050 Space Tourism Launch" includes stories for routine work items as well as stories aimed to improve key aspects of the shuttle launch, from customers buying space travel tickets to the launch of the rocket itself. As such, multiple teams will contribute to this epic by working on a wide range of stories.

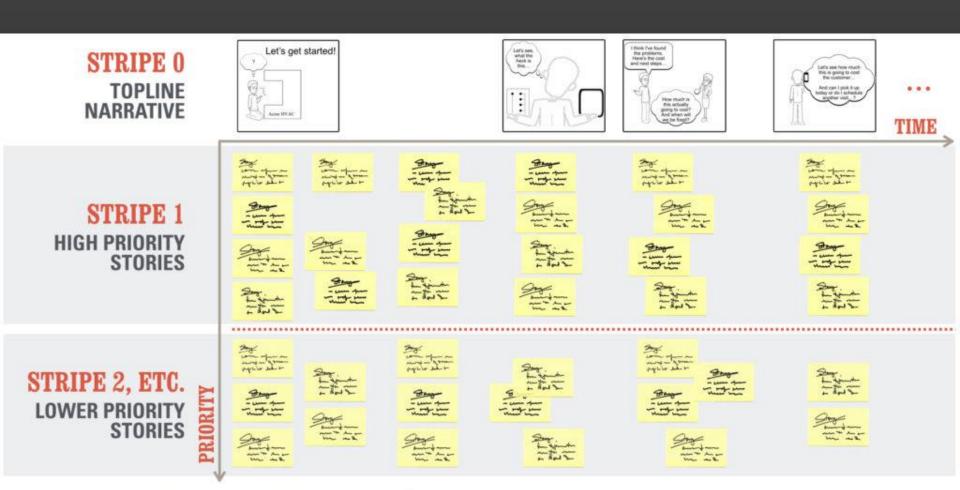
The software team supporting the purchasing of tickets for the March 2050 launch might structure their epic as so:

Epic: March 2050 Launch				
Story: Update date	Story: Reduce load time	Story: Promote Saturn		
range to include	for requested flight	Summer Sale on confirm		
March 2050 Launch	listings to < 0.45	page for First Class		
dates.	seconds	bookings.		

Concurrently, the propulsion teams might contribute to the same epic with these stories:

	Epic: March 2050	Launch
Story: Keep fuel tanks PSI > 250 PPM on launch	Story: Reduce overall fuel consumption by 1%.	Story: Hire new propulsion engineer to replace Gary. #garygate2050

Organização das histórias em níveis de prioridade (linhas de corte para as iterações)



source: adapted from Jeff Patton's 'User Story Mapping'

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Backlog	Analytics I	Feature Tim	neline Epic Roadmap	em ℈ V	/iew a	as Board 🤌 Column Options	
Forecasting	orecasting based on velocity of 12						
Forecast	⊕ ⊡ Order	State	Parent	Story Points	Tit	tle	Iteration Path
	1	New	▼ Customer Web - Phase 1	3		About screen	Design Agile\Sprint 2
	2	New	▼ Customer Web - Phase 1	3	> 📗	Change initial view	Design Agile\Sprint 2
Sprint 2	3	New	₹ Customer Web - Phase 1	5	> 📗	Hello World Web Site	Design Agile\Sprint 2
	4	New	Tustomer Web - Phase 1	3	Ш	Slow response on information form	Design Agile\Sprint 3
	5	New	▼ Customer Web - Phase 1	5	> 📗	Change background color	Design Agile\Sprint 3
	6	New	Tustomer Phone - Phase 1	2	> 📗	Phone sign in	Design Agile\Sprint 3
Sprint 3	7	New	₹ Customer Phone - Phase 1	3	> 🛄	Request support	Design Agile\Sprint 3
Sprint 4	8	New	▼ Mobile feedback	8	Ш	Design feedback interface	Design Agile\Sprint 4
	9	New	▼ Mobile feedback	8	Ц	Develop mobile interface	Design Agile\Sprint 5
	10	New	TRefresh web look, feel, performance factors	3	> 📗	Add an information form	Design Agile\Sprint 5
Sprint 5	11	New	TRefresh web look, feel, performance factors	5		Check performance	Design Agile\Sprint 5
	12	New	TRefresh web look, feel, performance factors	3	Ц	Interim save on long form	Design Agile\Sprint 6
Sprint 6	13	New	₹ Customer Service - Web	5		Technician dashboard improvements	Design Agile\Sprint 6
	14	New	₹ Customer Service - Web	8	Ц	Scheduler	Design Agile

https://learn.microsoft.com/en-us/azure/devops/boards/best-practices-agile-project-management?view=azure-devops&tabs=agile-process

As histórias também fornecem um contexto para "anotar" as condições de aceitação/pontos de verificação

As equipas "ágeis" incluem na história num conjunto de condições que descrevem as "condições de satisfação" da história, isto é, o que tem de passar para a história poder ser aceite.

→ Ver mais <u>exemplos</u>

Add Prospect

As a property manager I want to add a new prospect to the lead management system so I can track my interactions with the prospect.

Conditions of Satisfaction

Capture name, email, phone #, contact date, contact format, lease type, and move-in date

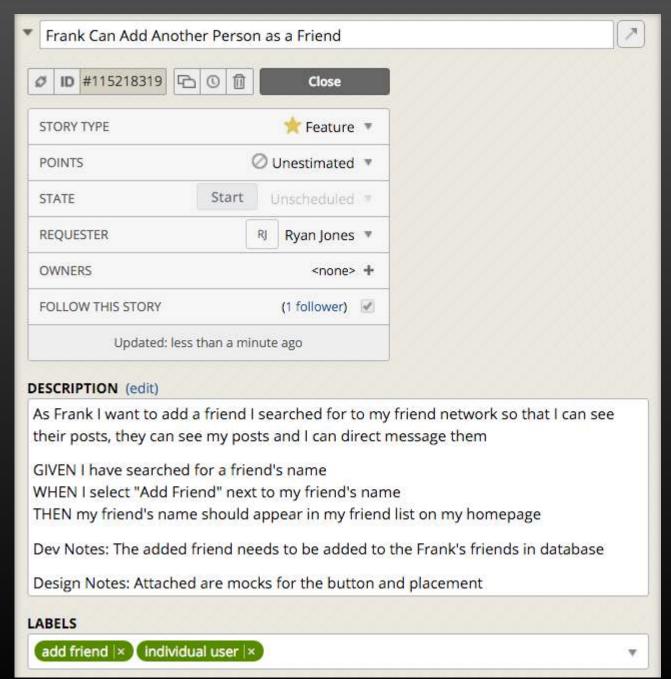
Verify prospect is associated with an existing campaign

As critérios de aceitação podem ser escritos seguindo um formato estruturado

GIVEN [necessary context] WHEN [action] THEN [reaction].

```
Title (one line describing the story)
Narrative:
As a [role]
I want [feature]
So that [benefit]
Acceptance Criteria: (presented as Scenarios)
Scenario 1: Title
Given [context]
  And [some more context]...
When [event]
Then [outcome]
  And [another outcome]...
Scenario 2: ...
```

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Stories define your project

Every project starts with a story, no matter what you're building. Tracker helps your team better develop and keep track of them while they progress from start to delivered.

Start with a good story

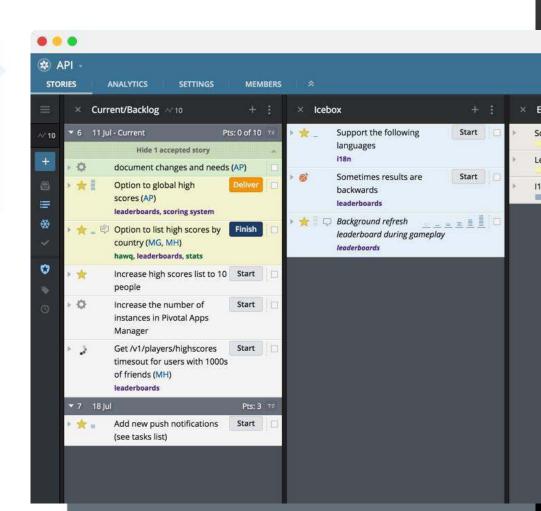
A story is a small, actionable bit of work that's either a placeholder for a future conversation or a reflection of one that already happened. Outlining what a user needs helps you focus on the what, not the how.

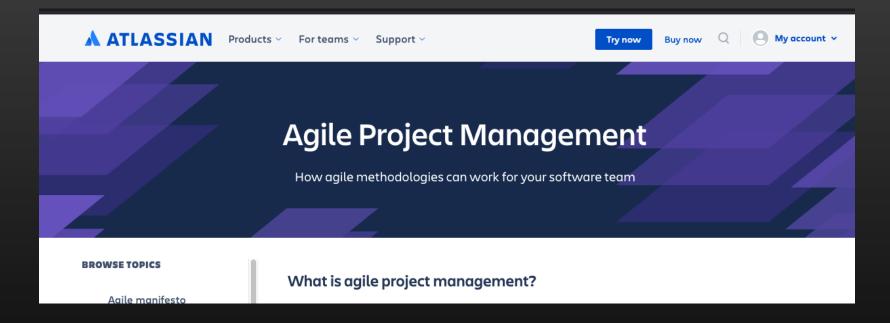
Define the story

Select among features, bugs, and chores to strike a healthy balance between building new features, staying ahead of technical debt, and keeping the bugs from piling up.

Estimate, then prioritize

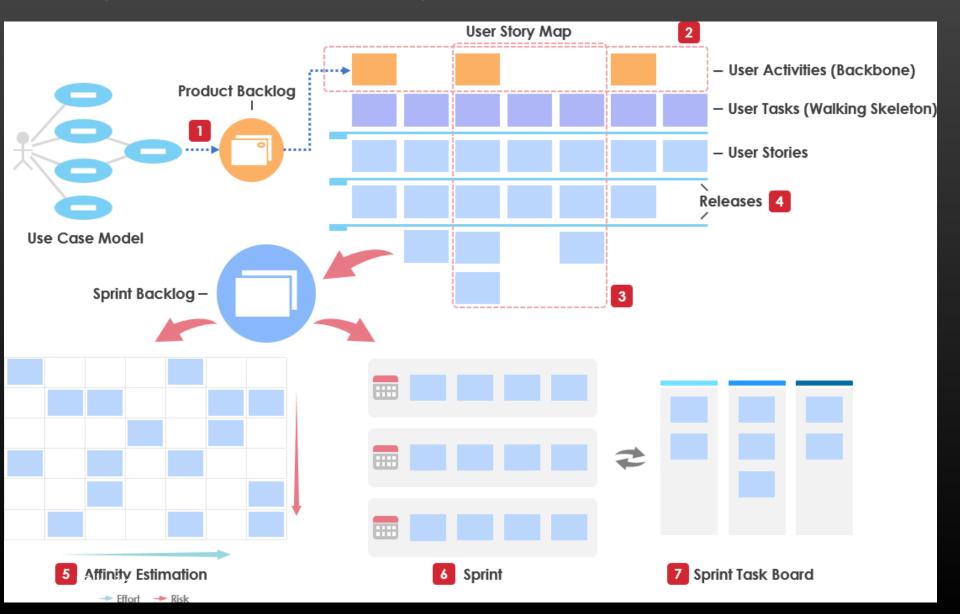
Writing the story is just the beginning—now you get to rap about it. Estimate as a team to uncover the story's complexity. Choose among several point scales, then drag-and-drop to prioritize by iteration.





https://www.atlassian.com/agile/project-management

Agile in VisualParadigm



Determinação de requisitos explorando cenários centrados no utilizador

- A) Use cases (casos de utilização)
- B) User stories (histórias)
- C) User-centered design, UCD (Desenho centrado no utilizador)
- D) Customer Journey Map/Experience maps (Mapas de experiência)

Foco em A) e B) para ASis.

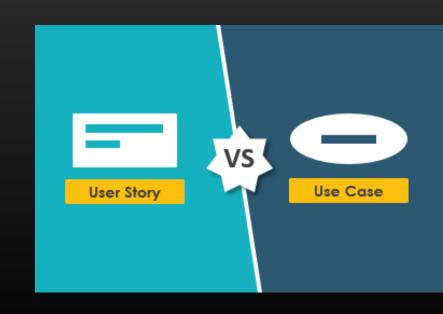
Relembrar: casos de utilização e resultados associados

Um caso de utilização descreve uma sequência de interações entre um sistema e um ator externo da qual o ator obtém resultado de valor (para as suas motivações).

Os nomes dos casos de uso são sempre escritos a forma de um verbo seguido por um objeto.

O caso de utilização é complementado com uma descrição detalhada (seguindo um padrão/narrativa estruturada)

Um caso de utilização inclui um fluxo principal e variantes.



ID and Name:	UC-4 Request a Chemical				
Created By:	Lori Date Created: 8/22/13				
Primary Actor:	Requester Secondary Actors: Buyer, Chemical Stockroom, Training Database				
Description:	The Requester specifies the desired chemical to request by entering its name or chemical ID number or by importing its structure from a chemical drawing tool. The system either offers the Requester a container of the chemical from the chemical stockroom or lets the Requester order one from a vendor.				
Trigger:	Requester indicates that he wants to request a chemical.				
Preconditions:	PRE-1. User's identity has been authenticated. PRE-2. User is authorized to request chemicals. PRE-3. Chemical inventory database is online.				
Postconditions:	POST-1. Request is stored in the CTS. POST-2. Request was sent to the Chemical Stockroom or to a Buyer.				
Normal Flow:	 4.0 Request a Chemical from the Chemical Stockroom 1. Requester specifies the desired chemical. 2. System lists containers of the desired chemical that are in the chemical stockroom, if any. 3. System gives Requester the option to View Container History for any container. 4. Requester selects a specific container or asks to place a vendor order (see 4.1). 5. Requester enters other information to complete the request. 6. System stores the request and notifies the Chemical Stockroom. 				
Alternative Flows:	 4.1 Request a Chemical from a Vendor Requester searches vendor catalogs for the chemical (see 4.1.E1). System displays a list of vendors for the chemical with available container sizes, grades, and prices. Requester selects a vendor, container size, grade, and number of containers. Requester enters other information to complete the request. System stores the request and notifies the Buyer. 				
Exceptions:	4.1.E1 Chemical Is Not Commercially Available 1. System displays message: No vendors for that chemical. 2. System asks Requester if he wants to request another chemical (3a) or to exit (4a). 3a. Requester asks to request another chemical. 3b. System starts normal flow over. 4a. Requester asks to exit. 4b. System terminates use case.				
Priority:	High				
Frequency of Use:	Approximately 5 times per week by each chemist, 200 times per week by chemical stockroom staff				

As histórias podem ser apresentadas num nível de abstração próximo do caso de utilização

TABLE 8-2 Some sample use cases and corresponding user stories

Application	Sample use case	Corresponding user story
Chemical tracking system	Request a Chemical	As a chemist, I want to request a chemical so that I can perform experiments.
Airport check-in kiosk	Check in for a Flight	As a traveler, I want to check in for a flight so that I can fly to my destination.
Accounting system	Create an Invoice	As a small business owner, I want to create an invoice so that I can bill a customer.
Online bookstore	Update Customer Profile	As a customer, I want to update my customer profile so that future purchases are billed to a new credit card number.

Mais frequentemente, a história é um desdobramento do caso de utilização

Recall that user stories are concise statements of user needs, in contrast to the richer description that a use case provides. In the agile world, a user story sometimes covers the same scope as an entire use case, but in other cases a user story represents just a single scenario or alternative flow. If an agile development team were discussing requirements for the CTS, they might come up with user stories such as the following:

As a chemist, I want to request a chemical so that I can perform experiments.

As a chemist, I want to request a chemical from the Chemical Stockroom so that I can use it immediately.

As a chemist, I want to request a chemical from a vendor because I don't trust the purity of any of the samples available in the Chemical Stockroom.

The first of these three stories corresponds to the use case as a whole. The second and third user stories represent the normal flow of the use case and the first alternative flow, from Figure 8-3.

Jacobson: flows in a use case match stories

A story is described by part of the use-case narrative, one or more flows and special requirements, and one or more test cases. The key to finding effective stories is to understand the structure of the usecase narrative. The network of flows can be thought of as a map that summarizes all the stories needed to describe the use case. Figure 8 illustrates the relationship between the flows of a use-case narrative and the stories it describes.

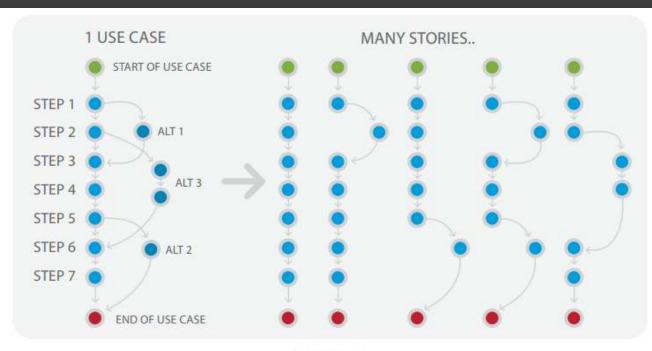


FIGURE 8:
THE RELATIONSHIP BETWEEN THE FLOWS AND THE STORIES

Figure 4. Use cases, use-case slices, increments, and releases.

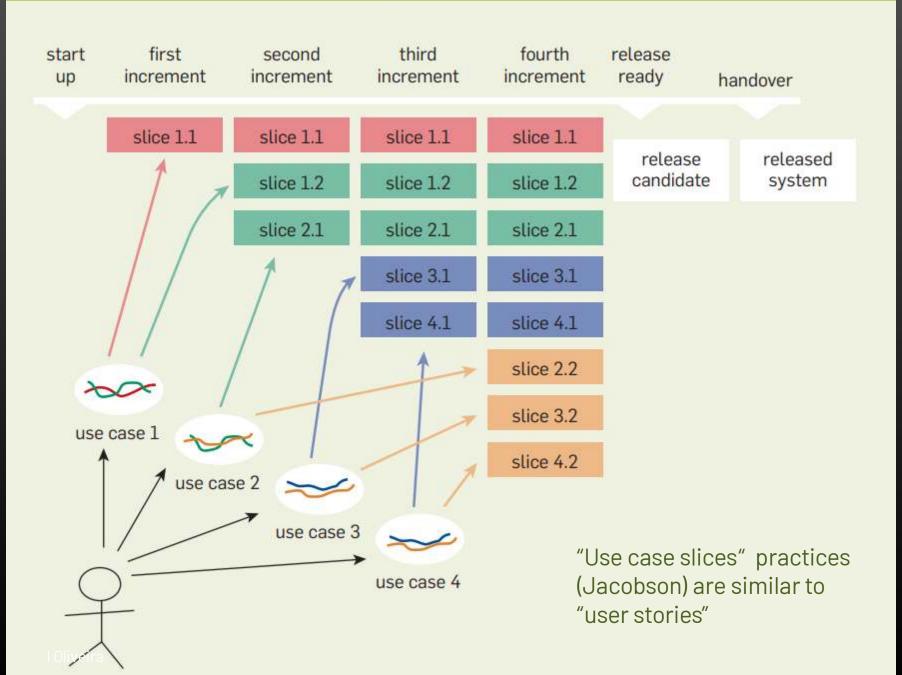
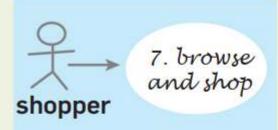


Figure 5. Capturing the properties of a use case and its slices using sticky notes.



priority: MUST release: 1 size: very large complexity: high

a use case and its properties captured on a sticky note 7.1 select and buy 1 product

flows: BF test: 1 product, default payment, valid details

5

7.2 select and buy 100 products

flows: BF test: 100 products, default payment, valid details

5

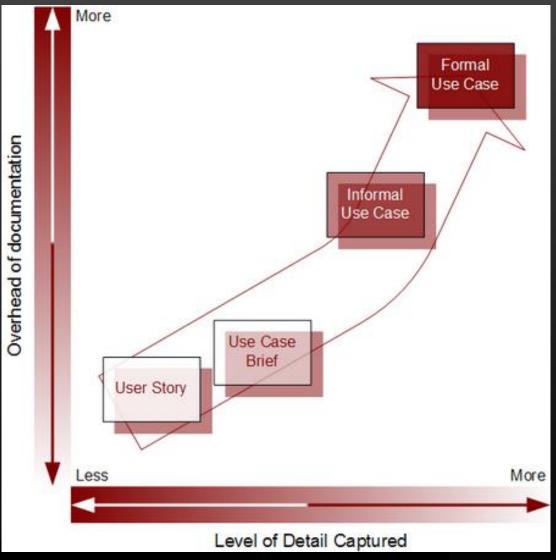
7.3 support systems unavailable

flows: BF, A9, A10, A1, A12 test: select product, provide information, disconnect each system in between 13

some slices from the use case captured on their own sticky notes

Em comum	Próprio dos casos de utilização	Próprio das histórias
 Ambos seguem uma abordagem centrada na utilização Ambos são contextos para descrever o diálogo utilizadores/sistema Ambos resultam em casos de teste que representam os critérios de aceitação Ambos podem ser estimados 	 Visão geral para ajudar a entender a extensão do sistema e o seu valor Descreve como o utilizador imagina a interação com o sistema para atingir os seus objetivos. Fornecer à equipa do projeto uma estrutura e contexto que falta à coleção das histórias Pode examinar cada elemento do caso de utilização (fluxos, précondições, pós-condições, e assim por diante) para procurar requisitos funcionais e não funcionais pertinentes e para definir testes (ajuda a evitar que se ignorem requisitos.) 	 Declaração concisa das necessidades de um utilizador Existe um acesso facilitado a especialistas do domínio (refinar a história conforme necessário) Mais adequado para funcionar como um item do backlog para o dia-a-dia (Scrum, Kanban) Critérios de aceitação explícitos

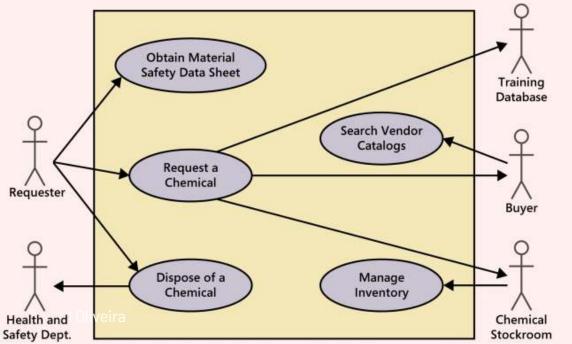
Posicionamento relative dos casos de utilização e histórias





Casos de utilização

ID and Name:	UC-4 Request a	Chemical	
Created By:	Lori	Date Created:	8/22/13
Primary Actor:	Requester	Secondary Actors:	Buyer, Chemical Stockroom, Training Database
Description:	number or by im	porting its structure container of the cher	nemical to request by entering its name or chemical ID from a chemical drawing tool. The system either offers nical from the chemical stockroom or lets the Requester
Trigger:	Requester indica	tes that he wants to	request a chemical.
Preconditions:	PRE-2. User is au	ntity has been authe thorized to request of inventory database i	chemicals.
Postconditions:		is stored in the CTS. was sent to the Che	mical Stockroom or to a Buyer.
Normal Flow:	 Requester spe System lists co System gives F Requester sele Requester enters 	Requester the option ects a specific contain ers other information	energia de esperador de la companya
Alternative Flows:	1. Requester sea	-	or s for the chemical (see 4.1.E1). r the chemical with available container sizes, grades,



ID

al Is Not Commercially Available

4. Requester enters other information to complete the request. is the request and notifies the Buyer.

ays message: No vendors for that chemical.

3. Requester selects a vendor, container size, grade, and number of containers.

Requester if he wants to request another chemical (3a) or to exit (4a). asks to request another chemical.

rts normal flow over.

asks to exit.

and prices.

minates use case.

5 times per week by each chemist, 200 times per week by chemical

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Histórias

Users can view information about each job that is matched by a search.

Marco says show description, salary, and location.

Story Card 1.2 A story card with a note.

Try it with an empty job description.

Try it with a really long job description.

Try it with a missing salary.

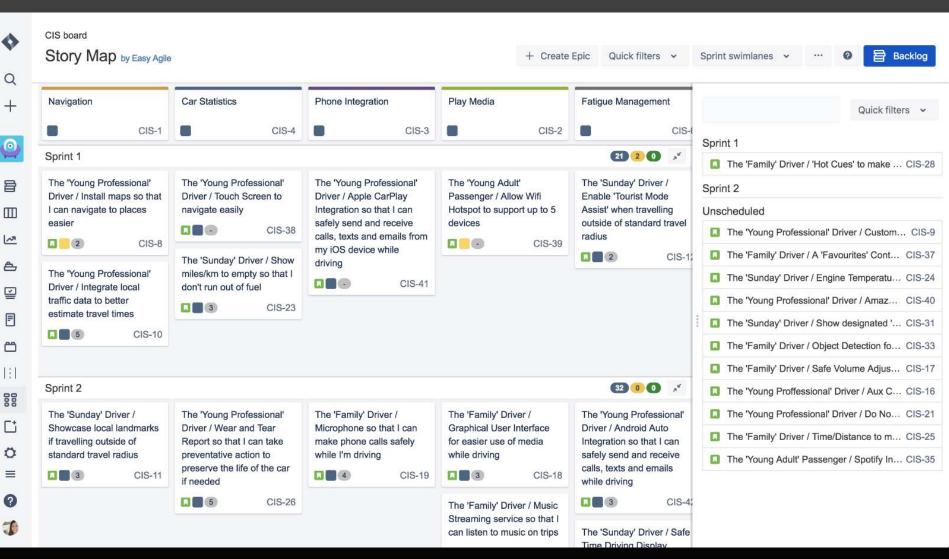
Try it with a six-digit salary.

Story Card 1.3 The back of a story card holds reminders about how to test the story.

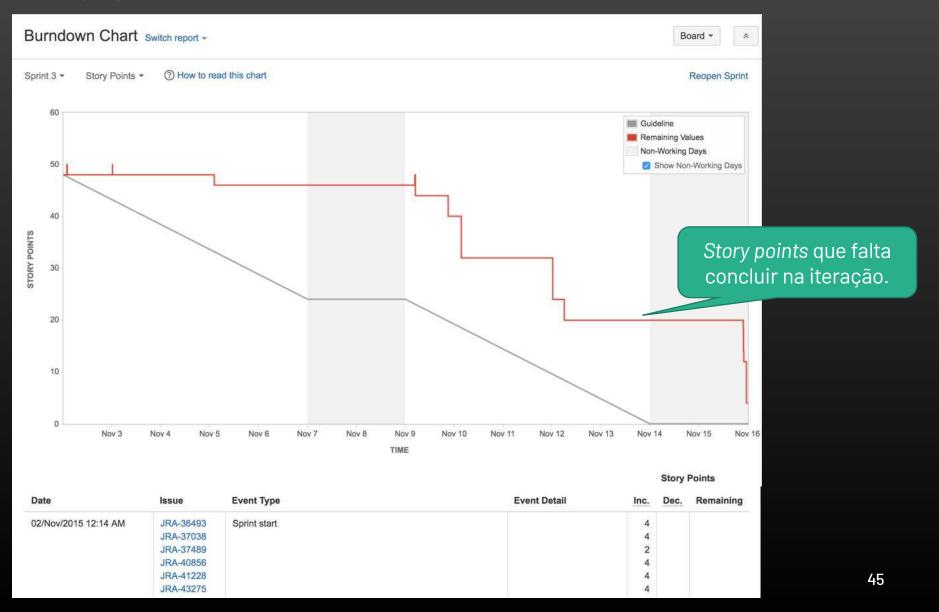
Table 1.3 Splitting a story to create a better release plan.

Iteration	Stories	Story Points
Iteration 1	A, B, C	13
Iteration 2	D, E, F	12
Iteration 3	G, H, Y	13
Iteration 4	J, Z	4

Histórias



Os story points são usados para contruir o burndown chart



Benefits of usage-centric requirements



The power of both use cases and user stories comes from their user-centric and usage-centric perspective. The users will have clearer expectations of what the new system will let them do than if you take a feature-centric approach. The customer representatives on several Internet development projects found that use cases clarified their notions of what visitors to their websites should be able to do. Use cases help BAs and developers understand the user's business. Thinking through the actor-system dialogs reveals ambiguity and vagueness early in the development process, as does generating tests from the use cases.

Overspecifying the requirements up front and trying to include every conceivable function can lead to implementing unnecessary requirements. The usage-centric approach leads to functionality that will allow the user to perform certain known tasks. This helps prevent "orphan functionality" that seems like a good idea but that no one uses because it doesn't relate directly to user goals.

Benefits from Usage-Centric Approach

User's terminology is applied

Reveals requirements for users to get tasks done

Helps analysts understand application domain

Helps avoid building unnecessary functionality

Permits early drafting of functional tests

Helps set implementation priorities on functional requirements



& analyst with

https://youtu.be/MwimXkY5G5o?t=1695

Algumas ideias a reter

- Os projetos ágeis (especialmente os da Scrum) utilizam um backlog do produto, que é uma lista prioritária da funcionalidade a desenvolver.
- Os itens do backlog do produto podem ser o que a equipa quiser, mas as histórias surgiram como a forma mais comum de representar os itens do backlog do produto (em software).
- Ambos os casos de utilização e as histórias focam-se em conversas e uso do sistema por pessoas.

- Os casos de utilização fornecem mais estrutura e uma forma de documentar os detalhes recolhidos em análise.
- As histórias dos utilizadores são refinadas conforme necessário. Os detalhes são acrescentados, em colaboração regular com os especialistas do domínio.
- A histórias recorrem a exemplos curtos para definir condições de aceitação.

References

Core readings

- Jacobson, I., Spence, I., & Kerr, B. (2016). <u>Use-case 2.0</u>.
 Communications of the ACM, 59(5), 61–69.
- "<u>User Story vs Use Case for</u>
 Agile Software Development",

 Visual Paradigm

Suggested readings

- Jacobson, I., Spence, I., &
 Bittner, K. (2011). <u>Use-Case 2.0</u>
 The Guide o Succeeding with Use
 Cases. [e-Book]
- <u>User story</u> (VisualParadigm handbook)
- <u>EasyAgile training materials</u>