

ON THE IMPACT OF USING DIFFERENT TEMPLATES ON CREATING AND UNDERSTANDING USER STORIES

Catarina Gralha, Rita Pereira, Miguel Goulão, João Araújo

Universidade NOVA de Lisboa, Portugal

24 September, 2021



USER STORIES ARE **SHORT** AND **SIMPLE** DESCRIPTIONS OF A SOFTWARE SYSTEM FEATURE, WRITTEN IN **NATURAL LANGUAGE**

USER STORIES ARE USED TO DOCUMENT FEATURES AND FOR COMMUNICATION WITH DIFFERENT STAKEHOLDERS





THERE ARE **TEMPLATES** TO FACILITATE THE **UNDERSTANDING** OF USER STORIES AND AVOID AMBIGUITY

USER STORIES: CON TEMPLATE

As a <type of user>, I want <goal>, so that <benefit>

M. Cohn. User Stories Applied: For Agile Software Development. Redwood City, CA, USA Addison Wesley Longman Publishing Co., Inc., 2004. ISBN: 0321205685.

USER STORIES: CON TEMPLATE

As a <type of user>, I want <goal>, so that <benefit>

"As a user, I want to access my account, so that I can manage my money"

M. Cohn. User Stories Applied: For Agile Software Development. Redwood City, CA, USA Addison Wesley Longman Publishing Co., Inc., 2004. ISBN: 0321205685.

USER STORIES: BEN TEMPLATE

In order to <benefit>, as a <type of user>, I want <goal>.

A. Marcano. Old Favourite: Feature Injection User Stories on a Business Value Theme. URL: http://antonymarcano.com/blog/2011/03/fi_stories/

USER STORIES: BEN TEMPLATE

In order to <benefit>, as a <type of user>, I want <goal>.

"In order to manage my money, as a user, I want to access my account"

A. Marcano. Old Favourite: Feature Injection User Stories on a Business Value Theme. URL: http://antonymarcano.com/blog/2011/03/fi_stories/

USER STORIES: PER TEMPLATE

As <persona>, I want to <goal>, so that <benefit>.

R. Pichler. From Personas to User Stories URL: https://www.romanpichler.com/blog/personas-epics-userstories/.

USER STORIES: PER TEMPLATE

As <persona>, I want to <goal>, so that <benefit>.

"As Yasmin, I want to access my account, so that I can manage my money"

USER STORIES: PERBEN TEMPLATE

In order to <benefit>, as <persona>, I want <goal>.

USER STORIES: PERBEN TEMPLATE

In order to <benefit>, as <persona>, I want <goal>.

"In order to manage my money, as Yasmin, I want to access my account"

RESEARCH QUESTIONS

RESEARCH QUESTIONS

Do different user stories templates have an impact on the **creation** of user stories?

RESEARCH QUESTIONS

Do different user stories templates have an impact on the **creation** of user stories?

2

Do different user stories templates have an impact on the **understanding** of user stories?



41 participants 10 per template (*11 with PERBEN)



41 participants 10 per template (*11 with PERBEN)

1 eye-tracker







41 participants 10 per template (*11 with PERBEN) 1 eye-tracker

booking system for an hotel





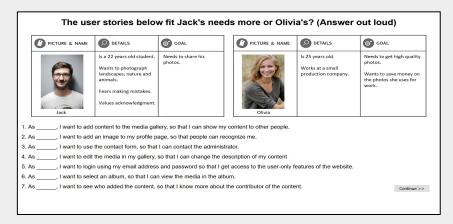
41 participants 10 per template (*11 with PERBEN) 1 eye-tracker

booking system website for for an hotel content sharing

CREATION AND UNDERSTANDING TASKS

DICTURE & NAME	DETAILS	GOAL	Insert answer here
	Is 28 years old. Wants to travel the world. Values friends, family and organization. Fears having no plans and no time to travel. ers to book hotels for the	Wants an easy way to book rips and get the best deals. Needs quick access to her reservations.	
e website can choose well as the number iven that not all peop possible to set price	e will have the same but limits. The user must be	he city they want to visit. dget, during the search, registered so that he	
e website can choose s well as the number iven that not all peop s possible to set price an make reservations ar rental and extra ac	of people traveling and the will have the same but limits. The user must be The website also offers ivities. In the customer a	he city they want to visit. dget, during the search, registered so that he extra services such as irrea, the user can access	
e website can choose swell as the number iven that not all peop spossible to set price an make reservations ar rental and extra ac I bookings made and	of people traveling and the will have the same but limits. The user must be . The website also offers ivities. In the customer a make changes, if desire	he city they want to visit. dget, during the search, registered so that he extra services such as rea, the user can access d. Payments can be	
ne website can choose s well as the number siven that not all peop s possible to set price an make reservations ar rental and extra ac Il bookings made and hade by credit card or	of people traveling and the will have the same but limits. The user must be The website also offers ivities. In the customer a make changes, if desire PayPal. If the user want	he city they want to visit. dget, during the search, registered so that he extra services such as irrea, the user can access	Continue >>

Please write the user stories necessary to describe this system Image: A website allows its users to book holeis for their trips. People who visit, Given that not all people will have the same budget, during the search, its possible to set price limits. The user must be registered so that he can make reservations. The website allows offers extra aerivies such as a lookings made and make changes; It desired. Pyrmetrics such as made by credit card of PayPal. If the user wants to cancel reservations, the can only doit turil 3 days before the arrival date and only 75% of the money will be refunded. Once in a while, the website offers vouchers to some users so they can discounts.



In order to view the media in the album, as a visitor, I want to select an album. In order to contact the administrator, as a visitor, I want to use the contact form. In order to get access to the user-only features of the website, as a user, I want to login using my email address and password. In order to be recognized, as a user, I want to be able to add an image to my profile page.

Which user stories are related to the media content shared on the website? (Answer out loud)

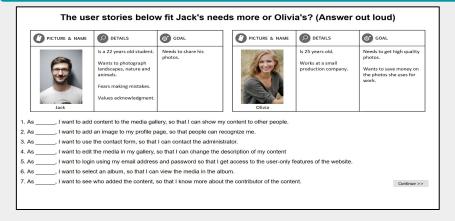
5. In order to change the description of my content, as a user, I want to edit the media in my gallery.

6. In order to show my content to other people, as a user, I want to add content to the media gallery.

7. In order to know more about the contributor of the content, as a visitor, I want to see who added the content.

CREATION TASKS

Please	write user stories t	nat describe what Amy wants		Please write the user stories nec	essary to describe this system
PTURE & NAMEOr DETALSImage: DetailsImage: DetailsImage: DetailsImage: DetailsDetailsImage: DetailsImage: DetailsDetailsImage: DetailsImage: DetailsDetailsDetailsImage: DetailsDetails <th>Needs quick access to her reservations. ans et. In their trips. People who visit departure date of their stay, and the city they want to visit. b udget, during the search, st be registered so that he offers extra services such as mer area, the user can access esired. Payments can be wants to cancel reservations, rival date and only 75% of the</th> <th>Insert answer here</th> <th>Continue >></th> <th>A website allows its users to book hotels for their trips. People who visit the website can choose the arrival and the departure date of their stay, as well as the number of people traveling and the city they want to visit. Given that not all people will have the same budget, during the search, its possible to set price limits. The user must be registered so that he can make reservations. The website allo offere extra services such as car rental and extra activities. In the customer area, the user can access all bookings made and make changes, it desired. Pyments can be made by credit card or PayPal. If the user wants to cancel reservations, he can only do it until 3 days before the arrival date and only 75% of the money will be refunded. Once in a while, the website offers vouchers to some users so they can discounts.</th> <th>Insert answer here</th>	Needs quick access to her reservations. ans et. In their trips. People who visit departure date of their stay, and the city they want to visit. b udget, during the search, st be registered so that he offers extra services such as mer area, the user can access esired. Payments can be wants to cancel reservations, rival date and only 75% of the	Insert answer here	Continue >>	A website allows its users to book hotels for their trips. People who visit the website can choose the arrival and the departure date of their stay, as well as the number of people traveling and the city they want to visit. Given that not all people will have the same budget, during the search, its possible to set price limits. The user must be registered so that he can make reservations. The website allo offere extra services such as car rental and extra activities. In the customer area, the user can access all bookings made and make changes, it desired. Pyments can be made by credit card or PayPal. If the user wants to cancel reservations, he can only do it until 3 days before the arrival date and only 75% of the money will be refunded. Once in a while, the website offers vouchers to some users so they can discounts.	Insert answer here



Which user stories are related to the media content shared on the website? (Answer out loud)

1. In order to view the media in the album, as a visitor, I want to select an album.

2. In order to contact the administrator, as a visitor, I want to use the contact form.

3. In order to get access to the user-only features of the website, as a user, I want to login using my email address and password.

4. In order to be recognized, as a user, I want to be able to add an image to my profile page.

5. In order to change the description of my content, as a user, I want to edit the media in my gallery.

6. In order to show my content to other people, as a user, I want to add content to the media gallery.

7. In order to know more about the contributor of the content, as a visitor, I want to see who added the content.

UNDERSTANDING TASKS

Please write	e user stories that describe what Amy wants	Please write the user stories necessary to describe this system
Is 28 years old. Wants to travel the world.	ture date of their stay, cityl they want to visit. et, during the search, gistered so that he ktra services such as a, the user can access Payments can be to cancel reservations, to ear ole Ireservations,	Continue >> A websile allows its users to book hotels for their trips. People who visit the website can choose the arrival and the departure date of their stay, as well as the number of people traveling and the city they want to visit. Given that not all people will have the same budget, during the search, its possible to set profe limits. The user must be registered so that he can make reservations. The website also dires extra services such as car rental and extra activities. In the customer area, the user can access all bookings made and make changes, if desired. Payments can be more yuil be refunded. Once in a while, the user wants to cancel reservations, he can only do it until 3 days before the arrival date and only 75% of the some users so they can discounts. Continue >> Continue >>

PICTURE & NAME O DETALS O COL Image: Section 2 and the sectin 2 and the section 2 and the section 2 and the section	The use	er stories below	v fit Jack's need	ls more or Olivi	a's? (Answer	out loud)
Image: Note: The second sec	PICTURE & NAME	DETAILS	G GOAL	PICTURE & NAME	DETAILS	G GOAL
2. As, I want to add an image to my profile page, so that people can recognize me. 3. As, I want to use the contact form, so that I can contact the administrator. 4. As, I want to edit the media in my gallery, so that I can change the description of my content. 5. As, I want to gain using my email address and password so that I get access to the user-only features of the website. 6. As, I want to select an album, so that I can view the media in the album.	Jack	Wants to photograph landscapes, nature and animals. Fears making mistakes.		Olivia	Works at a small	photos. Wants to save money on the photos she uses for
3. As, I want to use the contact form, so that I can contact the administrator. 4. As, I want to edit the media in my gallery, so that I can change the description of my content 5. As, I want to login using my email address and password so that I get access to the user-only features of the website. 6. As, I want to select an album, so that I can view the media in the album.						
 4. As, I want to edit the media in my gallery, so that I can change the description of my content 5. As, I want to login using my email address and password so that I get access to the user-only features of the website. 6. As, I want to select an album, so that I can view the media in the album. 						
 As						
6. As, I want to select an album, so that I can view the media in the album.					estures of the website	
					eatures of the website.	
Longing >>					ent.	0
	, , , , , , , , , , , , , , , , ,					Continue >>

Which user stories are related to the media content shared on the website? (Answer out loud)

1. In order to view the media in the album, as a visitor, I want to select an album.

2. In order to contact the administrator, as a visitor, I want to use the contact form.

3. In order to get access to the user-only features of the website, as a user, I want to login using my email address and password.

4. In order to be recognized, as a user, I want to be able to add an image to my profile page.

5. In order to change the description of my content, as a user, I want to edit the media in my gallery.

6. In order to show my content to other people, as a user, I want to add content to the media gallery.

7. In order to know more about the contributor of the content, as a visitor, I want to see who added the content.

TASKS WITH PERSONAS

D PICTURE & NAME		GOAL	Insert answer here	
Any	Is 28 years old. Wants to travel the world. Values friends, family and organization. Fears having no plans and no time to travel.	Wants an easy way to book trips and get the best deals. Needs quick access to her reservations.		
e website can choose I s well as the number of iven that not all people s possible to set price Ii an make reservations. ⁻ ar rental and extra activ I bookings made and m	the arrival and the depu- people traveling and the will have the same bur mits. The user must be The website also offers rities. In the customer a make changes, if desire	extra services such as irea, the user can access		

DICTURE & NAME	DETAILS	GOAL	PICTURE & NAME	DETAILS	GOAL
Jack	Is a 22 years old student. Wants to photograph landscapes, nature and animals. Fears making mistakes. Values acknowledgment.	Needs to share his photos.	Olivia	Is 25 years old. Works at a small production company.	Needs to get high quality photos. Wants to save money on the photos she uses for work.
As, I want to add	content to the media gall	ery, so that I can show i	my content to other people.		
As, I want to add	an image to my profile p	age, so that people can	recognize me.		
As, I want to use	the contact form, so that	I can contact the admin	istrator.		
As, I want to edit	the media in my gallery,	so that I can change the	description of my content		
As, I want to logir	n using my email address	and password so that I	get access to the user-only f	eatures of the website.	
As, I want to sele	ct an album, so that I car	n view the media in the a	album.		
As Lwant to see	who added the content.	so that I know more abo	ut the contributor of the conte	ent.	Continue >

Please write the user stories necessary to describe this system

A website allows its users to book hotels for their tips. People who visit the website can choose the arrival and the departure date of their stay, as well as the number of people traveling and the city they want to visit. Given that not all people will have the same budget, during the search, its possible to set price limits. The user must be registered so that he can make reservations. The website also offers extra services such as car rental and extra activities. In the customer area, the user can access all bookings made and make changes, if desired. Payments can be made by credit card or PayPal. If the user wants to cancel reservations, he can only do it until 3 days before the arrival date and only 75% of the money will be refunded. Once in a while, the website offers vouchers to some users so they can discounts.



Which user stories are related to the media content shared on the website? (Answer out loud)

1. In order to view the media in the album, as a visitor, I want to select an album.

2. In order to contact the administrator, as a visitor, I want to use the contact form.

3. In order to get access to the user-only features of the website, as a user, I want to login using my email address and password.

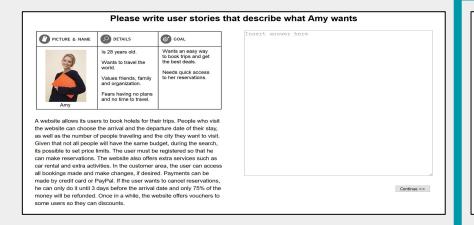
4. In order to be recognized, as a user, I want to be able to add an image to my profile page.

5. In order to change the description of my content, as a user, I want to edit the media in my gallery.

6. In order to show my content to other people, as a user, I want to add content to the media gallery.

7. In order to know more about the contributor of the content, as a visitor, I want to see who added the content.

TASKS WITHOUT PERSONAS



DICTURE & NAME	DETAILS	GOAL	PICTURE & NAME	DETAILS	GOAL
Jack	Is a 22 years old student. Wants to photograph Iandscapes, nature and animals. Fears making mistakes. Values acknowledgment.	Needs to share his photos.	Olivia	ls 25 years old. Works at a small production company.	Needs to get high quality photos. Wants to save money on the photos she uses for work.
us, I want to add	content to the media gal an image to my profile p the contact form, so that	age, so that people can			
s, I want to edit	the media in my gallery,	so that I can change the	e description of my content		
s, I want to logi	n using my email address	and password so that	I get access to the user-only f	eatures of the website.	
s, I want to sele	ct an album, so that I ca	n view the media in the	album.		
a lumate and	who added the content	so that I know more abo	out the contributor of the conte	ant	Continue >

Please write the user stories necessary to describe this system

A website allows its users to book hotels for their trips. People who visit the website can choose the arrival and the departure date of their stay, as well as the number of people traveling and the city they want to visit. Given that not all people will have the same budget, during the search, its possible to set price limits. The user must be registered so that he can make reservations. The website also offers extra services such as car rental and extra activities. In the customer area, the user can access all bookings made and make changes, if desired. Payments can be made by credit card or PayPat. If the user wants to cancel reservations, he can only do it until 3 days before the arrival date and only 75% of the money will be refunded. Once in a while, the website offers vouchers to some users so they can discounts.



Which user stories are related to the media content shared on the website? (Answer out loud)

1. In order to view the media in the album, as a visitor, I want to select an album.

2. In order to contact the administrator, as a visitor, I want to use the contact form.

3. In order to get access to the user-only features of the website, as a user, I want to login using my email address and password.

4. In order to be recognized, as a user, I want to be able to add an image to my profile page.

5. In order to change the description of my content, as a user, I want to edit the media in my gallery.

6. In order to show my content to other people, as a user, I want to add content to the media gallery.

7. In order to know more about the contributor of the content, as a visitor, I want to see who added the content.

Please write user stories that describe what Amy wants

PICTURE & NAME	DETAILS	GOAL
Amy	Is 28 years old. Wants to travel the world. Values friends, family and organization. Fears having no plans and no time to travel.	Wants an easy way to book trips and get the best deals. Needs quick access to her reservations.

A website allows its users to book hotels for their trips. People who visit the website can choose the arrival and the departure date of their stay, as well as the number of people traveling and the city they want to visit. Given that not all people will have the same budget, during the search, its possible to set price limits. The user must be registered so that he can make reservations. The website also offers extra services such as car rental and extra activities. In the customer area, the user can access all bookings made and make changes, if desired. Payments can be made by credit card or PayPal. If the user wants to cancel reservations, he can only do it until 3 days before the arrival date and only 75% of the money will be refunded. Once in a while, the website offers vouchers to some users so they can discounts.

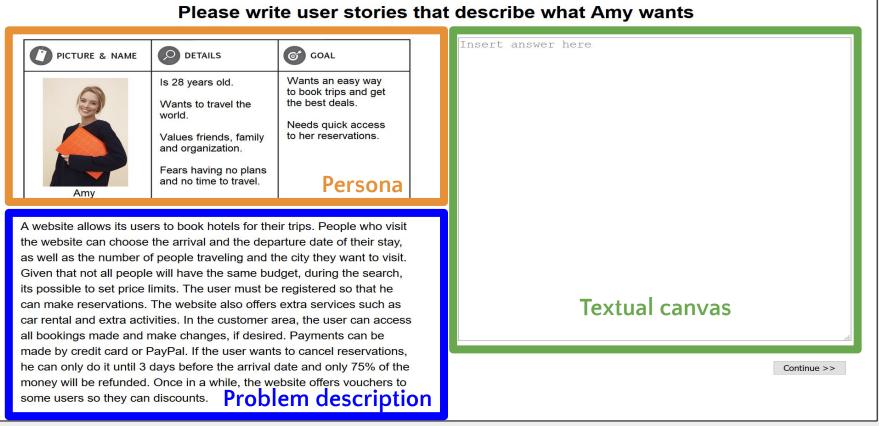
		Continue	

	Please writ	te user stories	that describe what Amy wants
PICTURE & NAME	DETAILS	GOAL	Insert answer here
	Is 28 years old. Wants to travel the world. Values friends, family and organization.	Wants an easy way to book trips and get the best deals. Needs quick access to her reservations.	
Amy	Fears having no plans and no time to travel.	Persona	

A website allows its users to book hotels for their trips. People who visit the website can choose the arrival and the departure date of their stay, as well as the number of people traveling and the city they want to visit. Given that not all people will have the same budget, during the search, its possible to set price limits. The user must be registered so that he can make reservations. The website also offers extra services such as car rental and extra activities. In the customer area, the user can access all bookings made and make changes, if desired. Payments can be made by credit card or PayPal. If the user wants to cancel reservations, he can only do it until 3 days before the arrival date and only 75% of the money will be refunded. Once in a while, the website offers vouchers to some users so they can discounts. Insert answer here Continue >>

	Please writ	te user stories	that describe what /
PICTURE & NAME	DETAILS	G GOAL	Insert answer here
Amy	Is 28 years old. Wants to travel the world. Values friends, family and organization. Fears having no plans and no time to travel.	Wants an easy way to book trips and get the best deals. Needs quick access to her reservations.	
A website allows its use the website can choose as well as the number of Given that not all people its possible to set price to can make reservations. car rental and extra actival bookings made and re made by credit card or F he can only do it until 3	the arrival and the depa f people traveling and the will have the same but imits. The user must be The website also offers vities. In the customer a nake changes, if desire PayPal. If the user want days before the arrival of Once in a while, the we	he city they want to visit. dget, during the search, registered so that he extra services such as area, the user can access	s

at Amy wants



Please write the user stories necessary to describe this system

A website allows its users to book hotels for their trips. People who visit the website can choose the arrival and the departure date of their stay, as well as the number of people traveling and the city they want to visit. Given that not all people will have the same budget, during the search, its possible to set price limits. The user must be registered so that he can make reservations. The website also offers extra services such as car rental and extra activities. In the customer area, the user can access all bookings made and make changes, if desired. Payments can be made by credit card or PayPal. If the user wants to cancel reservations, he can only do it until 3 days before the arrival date and only 75% of the money will be refunded. Once in a while, the website offers vouchers to some users so they can discounts.



Please write the user stories necessary to describe this system

A website allows its users to book hotels for their trips. People who visit the website can choose the arrival and the departure date of their stay, as well as the number of people traveling and the city they want to visit. Given that not all people will have the same budget, during the search, its possible to set price limits. The user must be registered so that he can make reservations. The website also offers extra services such as car rental and extra activities. In the customer area, the user can access all bookings made and make changes, if desired. Payments can be made by credit card or PayPal. If the user wants to cancel reservations, he can only do it until 3 days before the arrival date and only 75% of the money will be refunded. Once in a while, the website offers vouchers to some users so they can discounts.

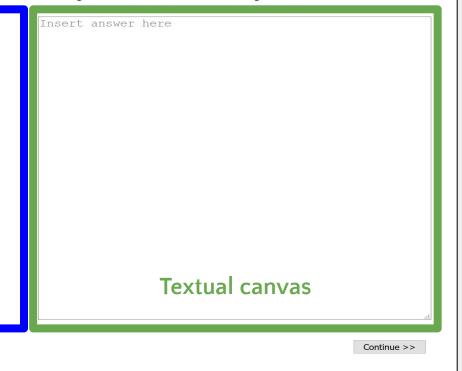
Problem description

Insert answer here	

Please write the user stories necessary to describe this system

A website allows its users to book hotels for their trips. People who visit the website can choose the arrival and the departure date of their stay, as well as the number of people traveling and the city they want to visit. Given that not all people will have the same budget, during the search, its possible to set price limits. The user must be registered so that he can make reservations. The website also offers extra services such as car rental and extra activities. In the customer area, the user can access all bookings made and make changes, if desired. Payments can be made by credit card or PayPal. If the user wants to cancel reservations, he can only do it until 3 days before the arrival date and only 75% of the money will be refunded. Once in a while, the website offers vouchers to some users so they can discounts.

Problem description



UNDERSTANDING TASK WITH PERSONAS

The user stories below fit Jack's needs more or Olivia's? (Answer out loud)

PICTURE & NAME	DETAILS	G GOAL	PICTURE & NAME	DETAILS	G GOAL
Jack	ls a 22 years old student. Wants to photograph landscapes, nature and animals. Fears making mistakes. Values acknowledgment.	Needs to share his photos.	Olivia	ls 25 years old. Works at a small production company.	Needs to get high quality photos. Wants to save money on the photos she uses for work.

- 1. As _____, I want to add content to the media gallery, so that I can show my content to other people.
- 2. As _____, I want to add an image to my profile page, so that people can recognize me.
- 3. As _____, I want to use the contact form, so that I can contact the administrator.
- 4. As _____, I want to edit the media in my gallery, so that I can change the description of my content
- 5. As _____, I want to login using my email address and password so that I get access to the user-only features of the website.
- 6. As _____, I want to select an album, so that I can view the media in the album.
- 7. As _____, I want to see who added the content, so that I know more about the contributor of the content.

UNDERSTANDING TASK WITH PERSONAS

The user stories below fit Jack's needs more or Olivia's? (Answer out loud) PICTURE & NAME **DETAILS** G GOAL PICTURE & NAME **DETAILS** G GOAL Is a 22 years old student. Needs to share his Is 25 years old. Needs to get high quality photos. photos. Wants to photograph Works at a small landscapes, nature and production company. Wants to save money on animals. the photos she uses for work. Fears making mistakes. Values acknowledgment. Personas lack Olivia 1. As , I want to add content to the media gallery, so that I can show my content to other people. 2. As , I want to add an image to my profile page, so that people can recognize me. 3. As , I want to use the contact form, so that I can contact the administrator. 4. As , I want to edit the media in my gallery, so that I can change the description of my content 5. As , I want to login using my email address and password so that I get access to the user-only features of the website. 6. As , I want to select an album, so that I can view the media in the album. 7. As , I want to see who added the content, so that I know more about the contributor of the content. Continue >>

UNDERSTANDING TASK WITH PERSONAS

The user stories below fit Jack's needs more or Olivia's? (Answer out loud) PICTURE & NAME **DETAILS** G GOAL PICTURE & NAME **D** DETAILS G GOAL Is a 22 years old student. Needs to share his Is 25 years old. Needs to get high quality photos. photos. Wants to photograph Works at a small landscapes, nature and production company. Wants to save money on the photos she uses for animals. work. Fears making mistakes. Values acknowledgment. Personas lack Olivia 1. As , I want to add content to the media gallery, so that I can show my content to other people. 2. As , I want to add an image to my profile page, so that people can recognize me. 3. As , I want to use the contact form, so that I can contact the administrator. 4. As , I want to edit the media in my gallery, so that I can change the description of my content 5. As , I want to login using my email address and password so that I get access to the user-only features of the website. 6. As , I want to select an album, so that I can view the media in the album. User stories 7. As , I want to see who added the content, so that I know more about the contributor of the content. Continue >>

UNDERSTANDING TASK WITHOUT PERSONAS

Which user stories are related to the media content shared on the website? (Answer out loud)

1. In order to view the media in the album, as a visitor, I want to select an album.

- 2. In order to contact the administrator, as a visitor, I want to use the contact form.
- 3. In order to get access to the user-only features of the website, as a user, I want to login using my email address and password.
- 4. In order to be recognized, as a user, I want to be able to add an image to my profile page.
- 5. In order to change the description of my content, as a user, I want to edit the media in my gallery.
- 6. In order to show my content to other people, as a user, I want to add content to the media gallery.
- 7. In order to know more about the contributor of the content, as a visitor, I want to see who added the content.

UNDERSTANDING TASK WITHOUT PERSONAS

Which user stories are related to the media content shared on the website? (Answer out loud)

1. In order to view the media in the album, as a visitor, I want to select an album.

2. In order to contact the administrator, as a visitor, I want to use the contact form.

- 3. In order to get access to the user-only features of the website, as a user, I want to login using my email address and password.
- 4. In order to be recognized, as a user, I want to be able to add an image to my profile page.
- 5. In order to change the description of my content, as a user, I want to edit the media in my gallery.
- 6. In order to show my content to other people, as a user, I want to add content to the media gallery.

7. In order to know more about the contributor of the content, as a visitor, I want to see who added the content.

Continue >>

User stories

Direct











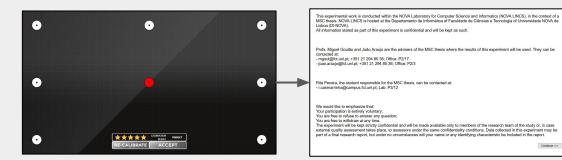


EYE-TRACKER CALIBRATION

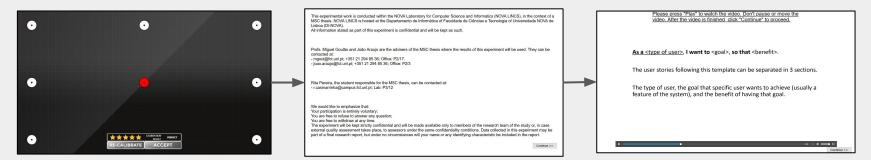


READ THE CONSENT LETTER

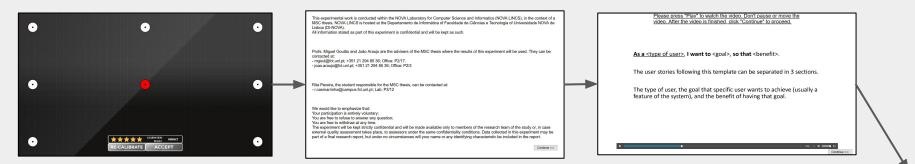
Continue >>



WATCH A VIDEO TUTORIAL



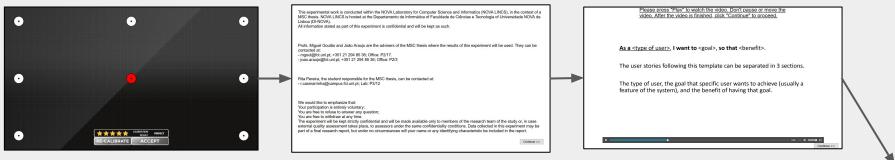
PERFORM THE FIRST TASK

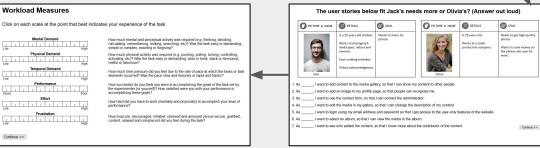


The user stories below fit Jack's needs more or Olivia's? (Answer out loud)

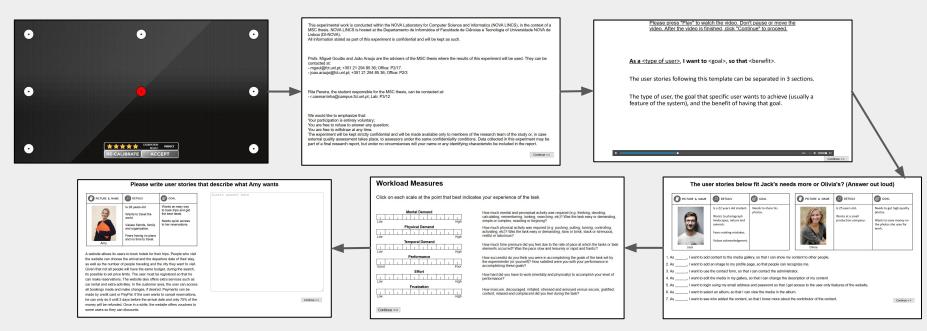


ANSWER A NASA-TLX QUESTIONNAIRE

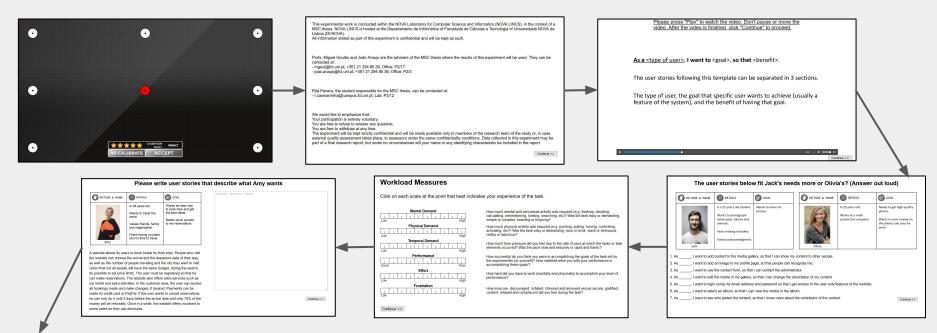




PERFORM THE SECOND TASK



ANSWER A NASA-TLX QUESTIONNAIRE



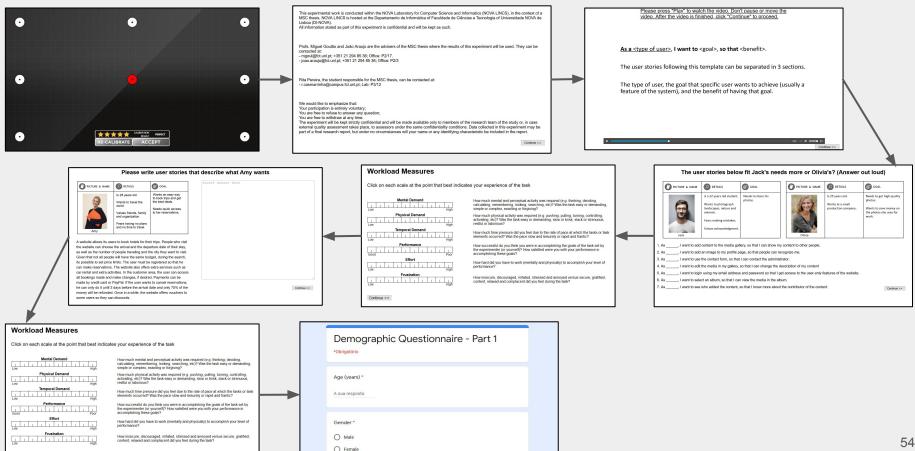
Workload Measures

Continue >>

Click on each scale at the point that best indicates your experience of the task How much mental and perceptual activity was required (e.g. thinking, deciding, How much mema and perceptual activity was required (e.g. minking, declaing, calculating, remembering, looking, searching, etc)? Was the task easy or demanding simple or complex, exacting or forgiving? يا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا How much physical activity was required (e.g. pushing, pulling, turning, controlling, activating, etc)? Was the task easy or demanding, slow or brisk, slack or strenuous, Physical Demand restful or laborious? How much time pressure did you feel due to the rate of pace at which the tasks or task Low Hi elements occurrent? Was the nace slow and leisurely or ranid and frantic? How successful do you think you ware in accomplishing the goals of the task set by the experimenter (or yourset)? How satisfied were you with your performance i accomplishing these goals? How hard did you have to work (mentally and physically) to accomplish your level of performance? How insecure, discouraged, irritated, stressed and annoved versus secure, gratified, content, relaxed and complacent did you feel during the task?

53

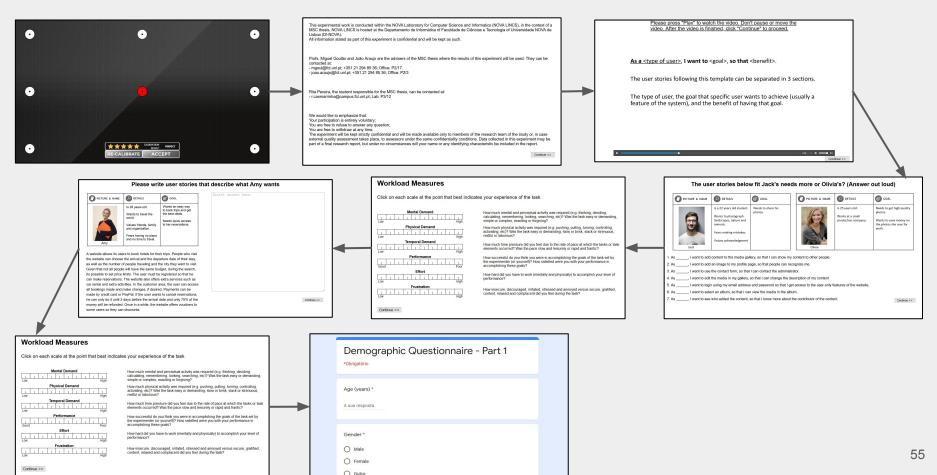
ANSWER TO DEMOGRAPHIC QUESTIONS



O Outra:

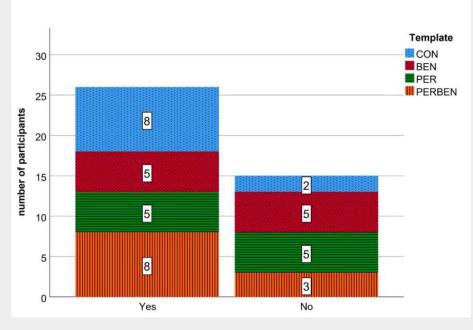
Continue >>

PROTOCOL OF THE EXPERIMENT



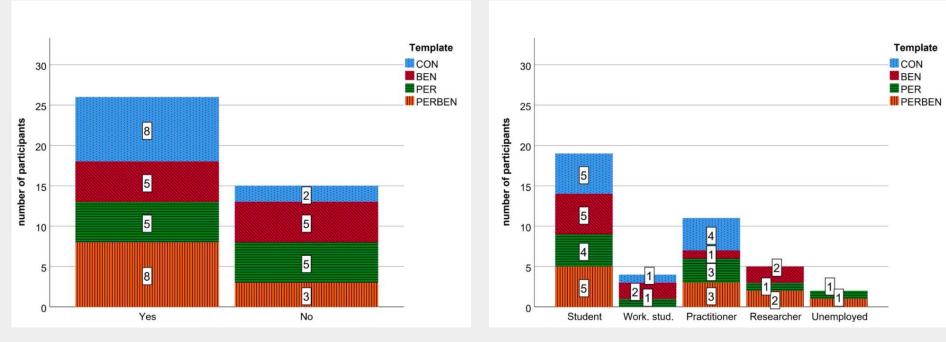
PARTICIPANTS CHARACTERISATION

PARTICIPANTS CHARACTERISATION



Previous experience with user stories

PARTICIPANTS CHARACTERISATION



Previous experience with user stories

Current occupation

differences for recall and f-measure



differences for recall and f-measure



lower duration for PER than for BEN



differences for recall and f-measure





higher fixation rate on relevant elements for BEN than PER

lower duration for PEN than for BEN



differences for recall and f-measure





higher fixation rate on relevant elements for BEN than PER

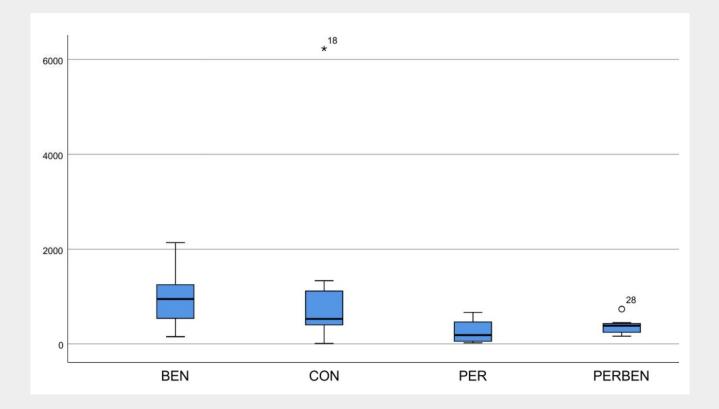
lower duration for PEN than for BEN



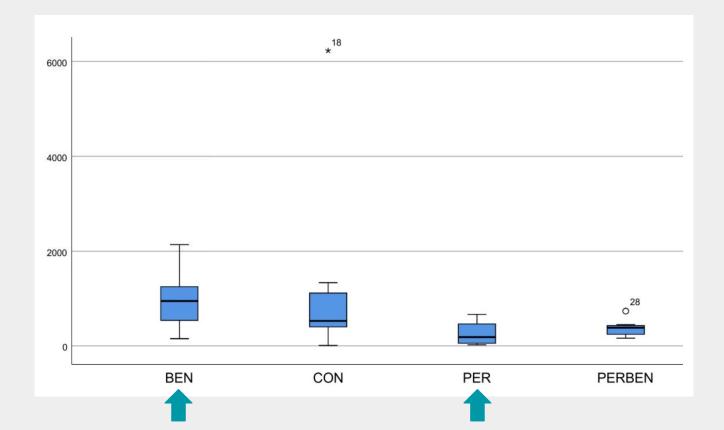


no differences on perceived effort

HIGHER FIXATION RATE ON RELEVANT ELEMENTS FOR BEN THAN FOR PER IN THE CREATION TASK



HIGHER FIXATION RATE ON RELEVANT ELEMENTS FOR BEN THAN FOR PER IN THE CREATION TASK



65

no difference on accuracy



no difference on accuracy



no differences on speed



no difference on accuracy





differences in terms of visual effort

no differences on speed



no difference on accuracy





differences in terms of visual effort

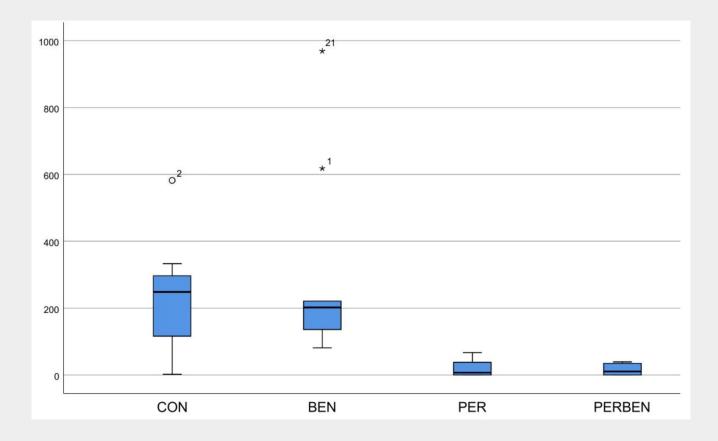
no differences on speed



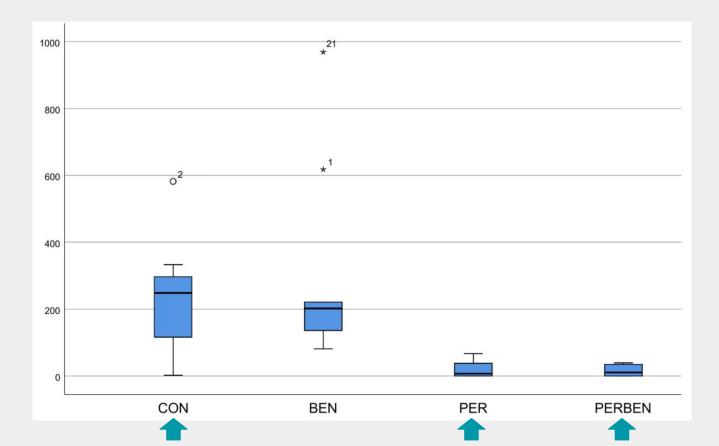


no differences on perceived effort

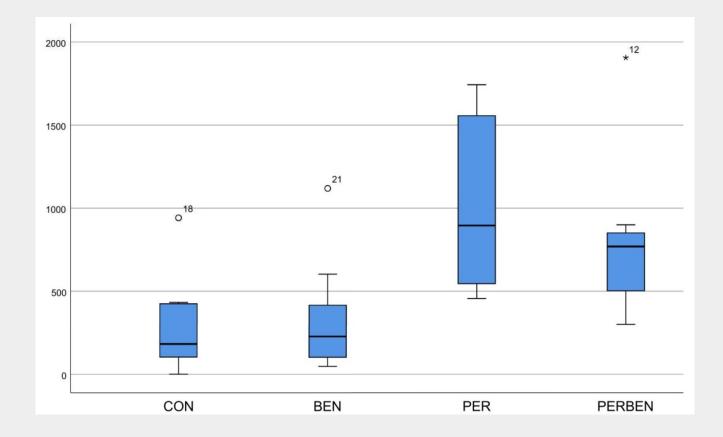
HIGHER FIXATION RATE ON **RELEVANT** ELEMENTS FOR **CON** THAN **PER** AND **PERBEN** FOR THE UNDERSTANDING TASK



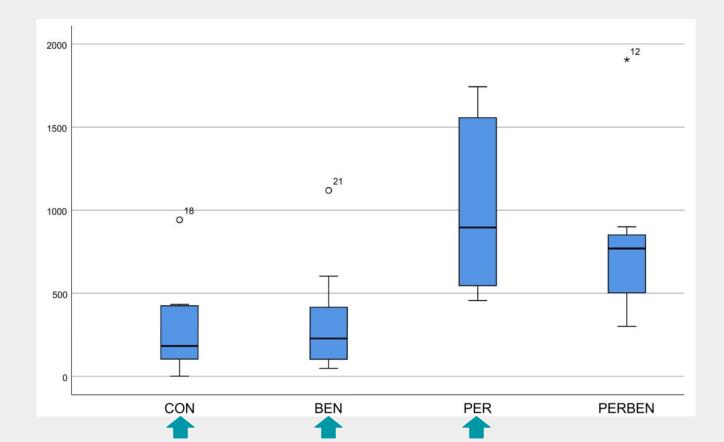
HIGHER FIXATION RATE ON **RELEVANT** ELEMENTS FOR **CON** THAN **PER** AND **PERBEN** FOR THE UNDERSTANDING TASK



HIGHER FIXATION RATE ON IRRELEVANT ELEMENTS FOR PER THAN CON AND BEN FOR THE UNDERSTANDING TASK



HIGHER FIXATION RATE ON IRRELEVANT ELEMENTS FOR PER THAN CON AND BEN FOR THE UNDERSTANDING TASK



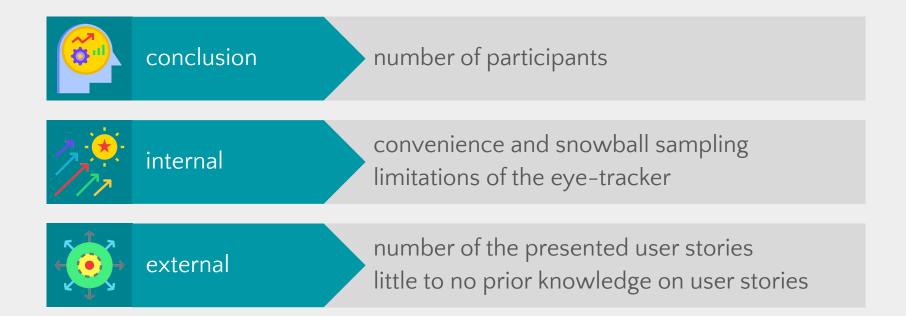
74

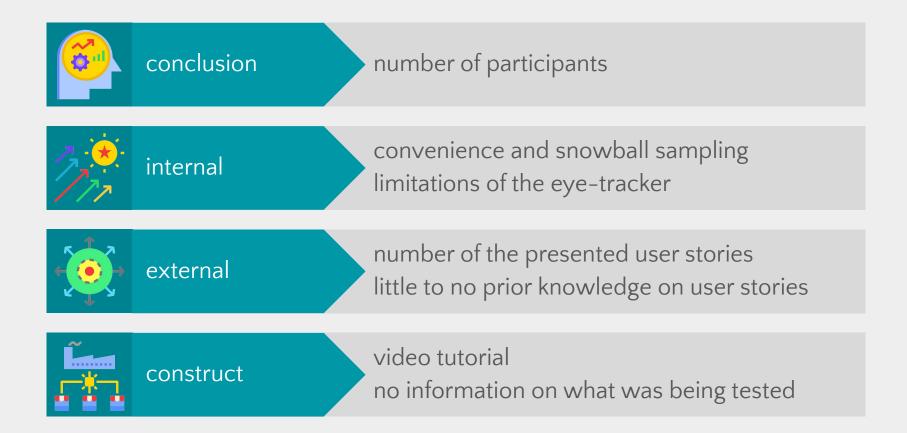
TENDENCY FOR A HIGHER VISUAL EFFORT IN THE FIRST USER STORIES THAN IN THE LAST ONES















NO TEMPLATE OBTAINED THE BEST OVERALL RESULT



NO TEMPLATE OBTAINED THE BEST OVERALL RESULT

GREATER VISUAL EFFORT WHEN USING PERSONAS

THANK YOU

QUESTIONS?

