PEPPER INTELLIGENCE PLATFORM

Humanizing Technologies

PIP 2.1

Documentation Version 2.2

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1. General Information

The application runs on:

H/W: Pepper > 1.7

S/W: NAOqi > 2.5.5

Internet connection: *dedicated Wi-Fi*

Dependencies: /

Charging station used: no

1.1 Connection

Check the WIFI connection of your robot. To update the content on your robot, it's important, that it is connected to the internet.

To check Peppers WIFI connection, enter the hidden menu, by hitting the Humanizing-Technologies-Logo in the right bottom corner of the display. Enter the password "1234". Go to the "Robot Settings" and then follow the instructions further down in the description of the remote access.

CARE: Remote access is only available, if your PC and Pepper are in the same network!!!

Remote access to the hidden menu:

Push Pepper's chest-button underneath the tablet. Pepper will say the IP address.





If Pepper is at the wrong network click on "refresh" and choose your right network.

2. PIP-Login

Open the website: <u>https://pip.humanizing.com/</u> in Chrome. Login with your username and password.

If you don't have your login information yet, please contact the Humanizing-Technologies Support: https://support.humanizing.com

2.1 Projects

After you logged in successfully you will see this screen:

First you should		Projects					
close the	e Admin						
navigation bar for	Projects		• •	Add new Project			
more space	Content Templates		Q Sea	arch			
Click horo for	Dialogs						
	Robots			Title	Dialogs	Robots	Date ↓
project	Documentation			DEMO_Airline		3 0	06.10.2018
	U Log out			DEMO_Office		○ 0	28.09.2018
If you already created projects				DEMO_Hotel	P 2	1	28.09.2018
for Pepper you will				DEMO_Entertainment		O	26.09.2018
find all your				DEMO_Consumer	4	۵ ا	21.09.2018
projects here				DEMO_Retail	2	(i) 0	19.09.2018
						Rows per page:	10 ▼ 1-6 of 6 < >

_			Add new Project			
Use the search	Projects		 C Entertainm			
field for searching — •			Title	Dialogs	Robots	Date ↓
your project		Add new Project	DEMO_Entertainment		۵ (26.09.2018
o		Q Search			Rows per page: 10	✓ 1-1 of 1 < >
∎ ©		Title	Dialogs	Robots	Date 🗸	
e		DEMO_Airline		③ 0	06.10.2018	
ს		DEMO_Office		③ 0	28.09.2018	
		DEMO_Hotel	2	③ 1	28.09.2018	
		DEMO_Entertainment	0	☺ 0	26.09.2018	
		DEMO_Consumer	4	○ 0	21.09.2018	
		DEMO_Retail	2	☺ 0	19.09.2018	
				Rows per page:	10 ▼ 1-6 of 6 < >	



In this example we click on "Add new Project":

e Admin			
Projects	Add new Project		
Content Templates	Q. Search		
🗩 Dialogs			
Robots	Add Project	Robots	Date 🗸
Documentation	DEMO_Airline Choose a project name DEMO_CMS		06,10.2018
신 Log out	DEMO_Office 8/25		28.09.2018
	DEMO_Hotel	© 1	
	DEMO_Entertainment Add Cancel		
	DEMO_Consumer	© 0	21.09.2018
	DEMO_Retail		
			age: 10 - 1-6 of 6 - < >

*default language is the language Pepper will speak first. E.g. we select English, so Pepper will speak English after a restart. From here you can select another language.

After you clicked on "Add", the project screen pops up automatically and you can start editing your new project!

Name your project and choose the default language* Finally click on "Add"



3. Editing in CMS



3.2. Zone Settings



3.3 Button Design

After clicking on the blue pencil, this window will pop up.

There are two options. You can create a Button Design with a title, title color and a background color or you upload a finished design.



4. Create Content

After you have finished your button design, you can take care of the content:





4.1 Create Content – Slideshow

4.2 Create Content – Slideshow Collection

If the listener in front of Pepper wants to hear more about the subject, he must tap on Pepper's screen and Pepper plays the entire slideshow. Otherwise Pepper shows only the first slide of every slideshow.





4.3 Create Content – Submenu

4.4 Create Content – Custom Behavior

You can use the custom behavior to start an application. In this case we will start the Animals-App. So, if someone taps on this button Pepper will start the animals-App.

< DEMO_CMS		C Preview Save
	Trioper Trile imitate animals Slug:	
,	Nume ht_entertainment/animals	

List of Humanizing App-Triggers: *(beware: Not all will work for you! It depends on which Software-packages you bought)*

Entertainment My animals ht_entertainment/animals	On vacation ht_entertainment/vacation
Dance with me	Guess my pose
ht_entertainment/dance	ht_guess_my_pose/behavior_1
Send Pepper greetings	TicTacToe
ht_send_pepper_greetings/behavior_1	ht_tictactoe/behavior_1
Pepper presentation	Memory
ht_pepper_presentation/behavior_1	ht_memory/behavior_1
Selfie time ht_entertainment/selfie	

Triggering your own Pepper Apps:

You can start your own Pepper apps by adding a trigger for it. The trigger should be written in the following form: <ApplicationID>/<BehaviorID>.

Here you can set a trigger for starting an application. E.g. ht_entertainment/ animals

5. Content Templates

It's possible to save your slideshows, slideshow collections and custom behaviors to reuse it in another project.



14



of the dialog

Select one or more dialogs to copy or delete them

Dialog species:

Dialog: Human can ask Pepper something and Pepper give an answer

Proactive: Pepper will ask a question, wait for a human-answer and give an answer

Attraction: Pepper recognizes movements and can attract customers to get closer.

Solitary: If there is no movement in the first two zones, Pepper will trigger the solitary sentences.

6.1.1 Custom Dialogs – Dialog

	14 / 35
+ Add new Group	Q 💿 🛄 🐺 🛩
Your Question	Pepper's response
How are you?	I'm fine thanks!
0	0

6.1.2 Custom Dialogs – Proactive

23 / 35	
	Q 💿 🔲 🗑 🖋 Search Activate Duplicate Delete Select a
Your answer	Pepper's respons
Hello Pepper	Nice to meet you
0	0
	0
	23/35 Your answer Hello Pepper

6.1.3 Custom Dialogs – Attraction

Dialog Title CMS Tutorials Attraction						
24 / 35						
Add new Group		Q Search	© Activate	Duplicate) Delete	Select all
Pepper says						
Hi, i'm Pepper, please come closer. I don't bite.						
٥						
Hello, may I help you?						
٥						
	< Page 1 of 1 >			Rows	per page:	10 👻

Here a response isn't expected, cause if the human come closer to Pepper, the proactive zone is entered and the robot switches automatically to the proactive dialog or the "normal" dialog.

What can a human ask Pepper? Write down possible question on the left side and possible answers from Pepper on the right side

Pepper begins the dialog. Write down what Pepper should say if a person stands in front of Pepper

Hint: The order is important. If the human says the first answer Pepper says the first answer too

If Pepper recognize a movement or a person in 1.5 – 2.5 meters away, Pepper can say something, to keep the attention and attract that person

6.1.4 Custom Dialogs – Solitary

Dialog Title CMS Tutorials Solitary 22 / 35						
Add new Group		Q Search	O Activate	Duplicate) Delete	Select all
Pepper says ¹						
I wanna talk to somebody						
Ø						
I'm happy to be here						
Ø						
	< Page 1 of 1 >			Rows	per page:	10 💌

Hint: mostly there are more than one way to ask or to answer. You can write down the questions and answers in different ways. It's also possible to write down more than one Pepper answer or question. Pepper will choose an answer or question randomly.

6.2 Standard Dialogs

Standard Dialogs are predefined dialogs from Humanizing-Technologies. They contain many basic questions and answers. For example, greetings or compliments. They save time while creating own dialogs.

6.2.1 Standard Dialogs - Dialog

Select the predefined	Dialog Title Pepper Random Questions 23 / 35	
questions you want Pepper to		Q 💽 📄 💞 Search Activate Duplicate Delete Select all
say. (Pepper will	🚊 Your Question	Pepper's response
not say the inactive ones)	Where am I?	You should really know that.
L	Where [can do] I find {[the a sn]} {next} [toilet exit cashier ke	l'm sorry, I don't know. Please ask a human colleague.
	Where do you live?	There is a secret hide out which is very nice.
The unselected ones are grey and the selected blue	Who am 1?	Hmm. \pau=300\ Let me see. \pau=300\ I would say \pau=
		17

If there's no movement or person spotted in the Proactive or Attraction zone, Pepper will trigger the Solitary sentences to get more attention



6.2.2 Standard Dialogs - Pro-active

The predefined sentences are a good basis for your own ones!

Here we set some triggers to start an animation through dialog (explained at point 6.3), so instead of just speaking - Pepper tries to get more attention by doing animations

6.2.4 Standard Dialogs – Solitary

Dialog Title Solitary									
		8 / 35							
					Q Search	O Activate	Duplicate) Delete	Select all
Pepper	says 🟮								
^ru	un(ht_animation_lib/elephant)								
^ru	un(ht_animation_lib/saxophone)								
			< Page 1 o	of1 >			Rows	per page:	10 👻

Just add one triggers to

Pepper's answer

6.3 Add Triggers to Dialog

	Dialog Title CMS Tutorials 13 / 35										
You can add triggers to your dialog. It's possible to start sounds and animations through dialog. Just add one of the	🕀 Add new Group					Q Search	© Activate) Delete	Select all	
	Your Question	Pepper's response									
	tt's Monday!	Oh yes you're right. Mondays are my favourite office-days! ^runSound(Aldebaran/enu_ono_hihihi)									
	0		Yea ^run	ih, Hove n(anima	e Mond ations/S	ndays! J/Stand/Gestures/Enthusiastic_4)					
		¢	Ð								

You'll get the whole list of triggers from Humanizing Technologies.

6.4 Dialogs – Allocate dialog to project

Use the search field for searching	Dialog	Pr	oactive Attrac	tion Solita	ry							
your dialog	+ Ad	ld nev	w Dialog					Q Search	Duplicate	D elete	Select all	
Select one or more dialogs you want to allocate to the project		Dial	og			Pro	jects	Date				
		DEN	MO_Consumer_Dia	log		2	1					
	Monday Greetings							17.09.2018				
	• •	CMS	S Tutorials		Γ			1	8.09.2018			
To allocate your dialog to your project click on the project button	< Cus	tom Di	alogs								Save	
			Assign Project	s to Dialog							Î	
							•	Q	Duplicate Delete	8		
Select the projects you want to add the dialog to. It's possible to allocate one dialog to more than one projects.				Title		Dialogs			Date			
				DEMO_Retail		2			19.09.2018			
				DEMO_Consur	ner	a 4			21.09.2018			
				DEMO_Hotel		2			28.09.2018			
				DEMO_Office					28.09.2018	18		
				DEMO_Enterta	ntertainment 🛛 🗩 0				26.09.2018	2018		
				DEMO_Airline					06.10.2018			
Don't forget to		_	×	DEMO_CMS					08.10.2018			
			1 row selected			Page 1 of 1 \Rightarrow		Rows p	er page: 10	-		
Now the project button is blue and there is the number one. That shows us the dialog is already			DEMO_Entertain	ment				26.09.2	018			
			DEMO_Airline					06.10.2	018			
	~		DEMO_CMS	Г	•	-		08.10.2	018			
	1 row selecte	d			< Page 1 of 1		Rows per	page:	10 🔻			

8. Load content on Pepper

Load content on Pepper for the first time:

Go to the robot settings page at your browser window (see point 1. "Connection"). Click on the third button. (Arrow Icon) And then on "update "



Your screen should look like this:

Upload the content for the second time:

Open the hidden menu:



Type on the HT-Logo in the right bottom corner of the display



Type on the button "CMS update"



the password is 1234



If this doesn't work try the Jesus-Grip*

*Jesus-Grip: Lay down your Hand on Peppers forehead and wait until pepper say: plop.

9. Examples of interaction with Pepper

Upload your content on Pepper.

9.1 The Tablet-Content

Pepper's tablet shows up your CMS content. In our example the tablet-screen looks like this:



9.2 Animations

Tickling:

Pepper is ticklish. By touching Pepper's head, you can activate the animation.

Furthermore, this animation interrupts Pepper's face detection, because Pepper shakes the head and looks down. After that, Pepper looks up again and restart the face detection.

Pepper Five's:

All "Pepper five's" (= high five, low five, hug, shake hands, fist bump) work in the same way. Pepper notices your touch through gyro-sensing. This sensor is in the upper body and it's necessary that your touch is recognizable for Pepper.

To clarify that: If you do a high five, you can also push the upper body a slightly bit backwards. That works too!

Don't be too timid, but even don't hit Pepper or do something too roughly, that might hurt Pepper. Just experiment with that and you'll get a feeling for it.

Pepper waits a few seconds if somebody replies to the animation and animates the user. If still nothing happens Pepper exits the behavior.

Notice: Pepper is very careful while moving and doesn't want to hit you. If somebody stands too closely to the robot, it's possible that Pepper does very small movements or even doesn't move anyway. Give Pepper some more space and try again.

Anomalies:

If the animation' sound (e.g. in the dancing animation) doesn't play simultaneously to the animation, try the Jesus-grip. With that you restart the tablet-software and it should fix the problem.