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1. Web application design

For the project was decided to develop a web application that lets the users manage the patients' sessions and have a register of all the performed sessions to see the record of each session and the results of the emotional analysis done by the tracking and recognition system.

For that purpose, a simple web application was designed, and the process will be explained in this part of the document.

1.1 Application wireframes

First of all, with the needs of the application the information to display is decided and how will be organized in the web application. To do this some wireframes were made to know what the result of the application will be.

Here will be shown the first version of the wireframes that were performed.



Figure 1: login page wireframe



Figure 2 patients page wireframe

LOGO HERE	Home Add User Add Exit
Back	Lasts sessions average View more
[Patient name] Edit	
Person of contact: [Contact person] Contact number: [Contact phone]	
Specialist name: [Specialist in charge]	
Pathology: [Pathology]	Record controls
	Start new record Stop current record

Figure 3: Patient page wireframe

LOGO HERE				Home Add User	Exit
Back					
[User] sessions					
Session Date	Session Date	Session Date	Session Date	Session Date	
Session Date	Session Date	Session Date	Session Date	Session Date	

Figure 4: Patient sessions page wireframe

LOGO HERE	Home Add User Add Exit
Bux Patient [Patient name], [Session date] session	Session results
Sealan Alde next	
	Session patient detection accuaracy: [0%]

Figure 5: Patient session page wireframe

LOGO HERE		Home Add Add Patient Exit
ba	Add Patient	

Figure 6: Add patient page wireframe

LOGO HERE		Home Add User Add Exit
5ek	Add User	
	User sumarre	
	Password Ropeat password Construct	

Figure 7: Add user page wireframe

The usage idea is simple, first of all have a login page just with the purpose of protect the data in the web application not allowing unknown users to have access to the patient's data especially considering its vulnerable data. The Figure 1 represents the idea of a little login modal dialog.

When accessing the web, the Figure 2 displays all the patient in the system listed in a grid card format to easily identify the patient.

Accessing each patient clicking on it will let the user to see in the left part of the screen a side section with the personal information of the patient, an image, and the capability of edit this data. And in the center of the screen as a resume, a last sessions emotional analysis average to have an idea of the patient status as show in the Figure 3.

In that page, there is a button to show all the sessions history of that patient and the most important buttons, the start and stop record buttons.

In the sessions history that will be another grid of cards with the sessions sorted by dates as shown in the Figure 4, accessing to each session the Figure 5 shows that the idea is to could see the record of that session on the left and at the right side a chart with the emotional analysis results of that session record.

With all this the Figure 6 and Figure 7 are just forms to add users and patients to the system, noticing that this has some importance because one of the requested features by the clients was the possibility to know which therapist/user was in charge of each patient, so the feature to add users to the system and to let select a user for the patient were needed.

Knowing all this and looking at the result the conclusion reached was that there is a more effective way to display the patient information, reduce the number of pages cause the add patient and user pages has not many information as to be independent pages and still remain pages to edit the user information and to add or edit cameras to the system if needed.

So, before this line the final revision of the wireframes is shown considering that. As is exposed in the next figures (Figure 8, Figure 9, Figure 10, Figure 11 and Figure 12)

Login page,	Uter
welcome label	Pagorod

Figure 8: login page final wireframe

Logo		Home	Add patient	Configuration	Log out
	Welcome again, [u	iser name]			
	Patients lis	st			
				•••	

Figure 9: Home page final wireframe







Figure 11: Patient sessions list page final wireframe



Figure 12: Patient session detail page final wireframe

Several changes were made, removing the use of pages for addition or edition of patients, users, or cameras, whereas a pop-up modal dialog will be used being everything more uniform and easier to use.

As for the elements layout everything is divided between spaces as in little windows being more clear what information is being displayed and not giving like an empty sensation .

Besides that when a patient is selected in the home page of the Figure 9, in the patient page, in the patient sessions and in the session detail of a patient all the user data will be visible in the left side panel, bringing a more clear navigation idea to the user and a more useful experience, having always present the record controls in that panel which are the most important controls in the application.

Log	jo			Home	Add patient	Configuration	Log out
	System users Add uwer System cameras Add camera						
Name	Sumame	Email	Actions	Name	IP Address	Port	Actions
User 1	User sumame 1	User email 1	Edit Delete	Camera 1	0.0.0.0	0000	Edit Delete
User 2	Usor sumarno 2	User omail 2	Edit Delete	Camora 2	0.0.0.0	0000	Edit Delete
User 3	User sumarne 3	User email 3	Edit Delete	Camera 3	0.0.0.0	0000	Edit Delete

Figure 13: Configuration page final wireframe

Also, a configuration page was added to be able to manage the users and the cameras and its accessible from the top navigation bar, as is shown in the Figure 13

1.2 Moodboard

A Moodboard was created to explore other similar applications developed and know more about the UX elements used as colors, spaces, and others to develop a the better UX possible. The moodboard is displayed in the Figure 14



Figure 14: moodboard

Based on the previous moodboard some conclusions extracted to perform the design of the application were:

1. Main colors are usually blue or green, which emanates a peaceful and calm feeling to the users.

- 2. The used colors are usually light colors.
- 3. The elements in the screen trend to have rounded borders

4. The space between elements are clearly separated having enough visual space even when there are lots of information in the screen

1.3 Color palette

With the previous moodboard a color palette for the application was decided and is represented in the



1.4 Font used

For the font used, a clear font over than a stylized font was the election due to the purpose of the application, doing easy the comprehension of everything.

Some of the next fonts achieved that requirement (Figure 16 and Figure 17).

Whereas a commonWhereas a commonunderstanding of theseunderstanding of theserights and freedoms isrights and freedoms is

Figure 16: Fonts Noto Sans (left) and Lato (right)

No one shall be held in slavery or servitude; slavery and the slave trade shall be prohibited in all their forms.

Figure 17: Font Monserrat

1.5 Mockup/HF Design

Based on the previous points, with the wireframes, the moodboard, color palette and the font election, HF Designs were performed to see how a possible final result of the application will be, as shown in the next figures (Figure 18, Figure 19, Figure 20, Figure 21, Figure 22 and Figure 23)

Application Login Page Login here to access t system data	he tracking	UsorEmail Password Login	

Figure 18: Login page HF Design

LOGO		Home	Add patient	Configuration	Log out
	Welcom	e again, [user name]			
		Patients list			
	Adrian Garcia	Maria Andreu	Marta Martinez		

Figure 19: Home page HF Design

LOGO			Home	Add patient	Configuration	Log out
Back	Edit	Last se	essions em	otion average		
Adrian	Garcia			5		
Contact person: Contact number: Therapist: Pathology:	111 222 333 Ramon Ramirez ASD					
Record	controls Start	happy	suprise angry See all se	neutral disgust o	ad	



LOGO		Home	Add patient Con	figuration Log out
Back Edit		Sess	sion list	
Adrian Garcia	21-06-2022 Session Record duration 50:20 Accuracy 84:00%	n 18-06-2022 Session Record duration 4913 Accurracy 57 00%	16-06-2022 Session Record duration 23:30 Accuracy 84:00%	12-06-2022 Session Record duration 38:29 Accumcy 93:00%
Contact person. Jose Luis Contect number: 111 22 Therapist: Ramon R Pathology: AS	s Garcia 30-05-2022 Session 2 333 Record duration Raminez 58 01 50 \$59.00%	Record duration 39.30 Accuracy 89.00%	17-05-2022 Session Record duration 19.48 Accuracy 83.00%	03-04-2022 Session Record duration 43.14 Accuracy 98.00%
Record controls Stop Start				

Figure 21: Patient sessions page HF Design



Figure 22: Patient session details page HF design

LC	GO			Home	Add patient	Configuration	Log out
	System	1 USBIS Add user			System car	Neras Add camera	
Namo	Surname	Email	Actions	Name	IP Address	Port	Actions
admin	admin	admin@admin.com	Edit Delete	Camera 1	0.0.0.0	5002	Edit Delete
User 2	User sumame 2	User email 2	Edit Delete	Camera 2	0.0.0.0	5003	Edit Delete
User 3	User sumame 3	User email 3	Edit Delete				

Figure 23: Configuration page HF Design

1.6 Final result

Having the HF designs made, the web was developed with the next results displayed in the Figure 24, Figure 25, Figure 26, Figure 27, Figure 28, Figure 29, Figure 30 and Figure 31

Tracking system for monitoring children in therapy Login here to access	User Name / Email John Doe Password Password Login

Figure 24: login page

PLACE LOGO			🔁 Home	L* Add patient	🌣 Config	[→ Log out
		Welcome	e again			
		Patien	ts list			
	Adrian Garcia	Michel Douglas	Maia Amiran	John Doe		
				NO IMAGE AVAILABLE		
	Marta Andreu	Laura Martinez	Francisco Rodriguez	Alex Miranda		
	NO IMAGE AVAILABLE	NO IMAGE AVAILABLE	NO IMAGE AVAILABLE	NO IMAGE AVAILABLE)	

Figure 25: Home page with patients list



Figure 26: Patient page



Figure 27: Patient sessions list page



Figure 28: Patient session details page

Add a new patient	60000		×	Add a new patient			×
NO IMAGE AVAILABLE Upload image	Personal information Name Person of contact Therapist associated Antonio Martinez Pathology	Surame Contact phone number		Upload image	Personal information Name Adrian Person of contact Paco Martinez Therapist associated Paquita Salas Pathology Test pathology	Surame Garcia Contact phone number +34 60112367 \$	
		Create patie	nt			Edit patier	nt

Figure 29: Add patient dialog (left) and edit patient dialog (right)

PLACE LOGO				🔒 Home	2+ Add patient	🌣 Config	〔→ Log out
		System users New user		Sys	tem cameras	New camera	
Name	Surname	Email	Actions	Name	IP Address	Port	Actions
admin		adgaran@epsg.upv.es	C i	Main camera	127.0.0.1	5002	C i
Antonio	Martinez	newtestmail@gmail.com	C i	Other camera	127.0.0.1	40	C i
Paquita	Salas	emaildeprueba@gmail.com	C i				

Figure 30: Configuration page to manage users and cameras

Add new user	×	Add new camera		×
Personal information Name Su email	rame	Camera information Name IP Address	Socket Port	
Password Re	Cancel Create user		Cancel Create came	era

Figure 31: Add user (left) and add camera (right) dialogs