

TeamFantastic



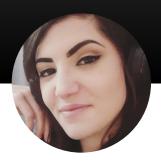
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WHAT HAPPENS WHEN THE NEEDED MEDICATION DOESN'T ARRIVE IN UKRAINE?

According to WHO (World Health Organization) at least 3000 Ukrainians have died due to the lack of chronic health treatments.

- Priority to life-threatening burn, bullet and shrapnel injuries;
- → 40% of households have at least one member in need of chronic treatment that they can no longer find.

https://www.axios.com/2022/05/10/ukraine-death-chronic-tre atment-who

"Ukrainian soldiers practicing applying bandages in a tactical medical training exercise in Kyiv, on July 1."



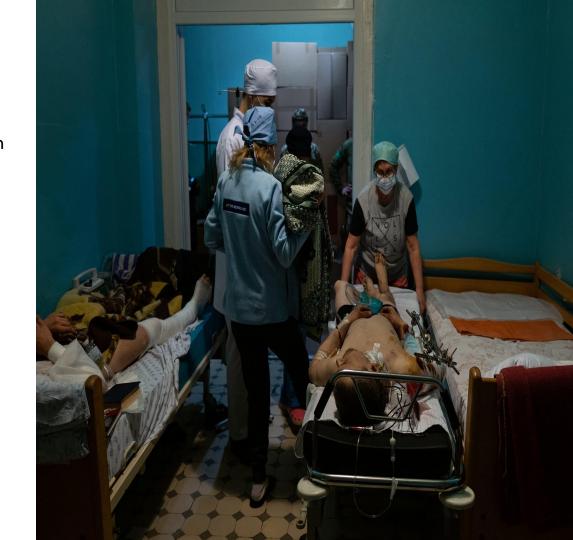
FLAWS IN THE SYSTEM

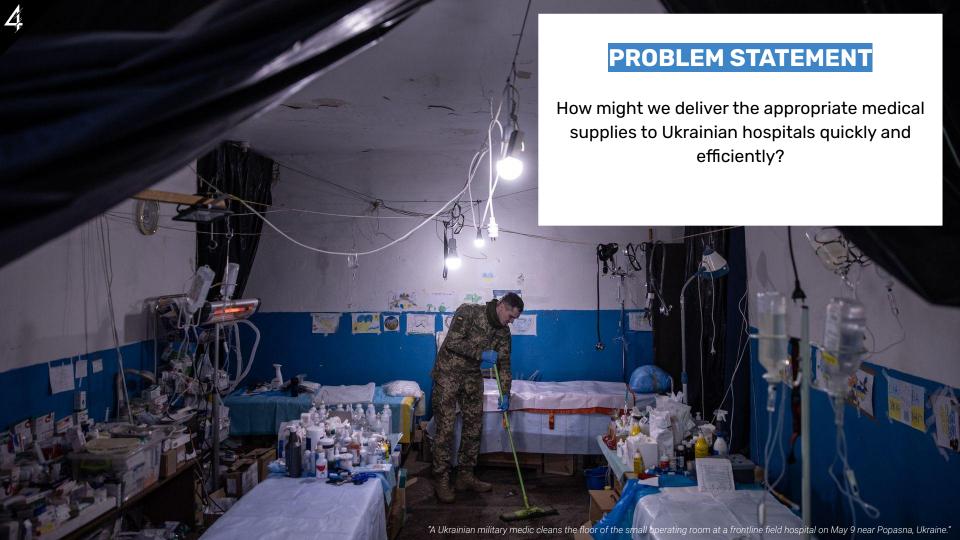
40%-70% of donations do not comply with the WHO strict guidelines. This creates large amounts of inevitably **wasted effort.**

Poor communication between medical facilities results in sending **excessive and unneeded medical supplies**, taking up valuable limited storage space.

Civilians who live in war zones continue to suffer from the lack of the **correct** medical supplies.

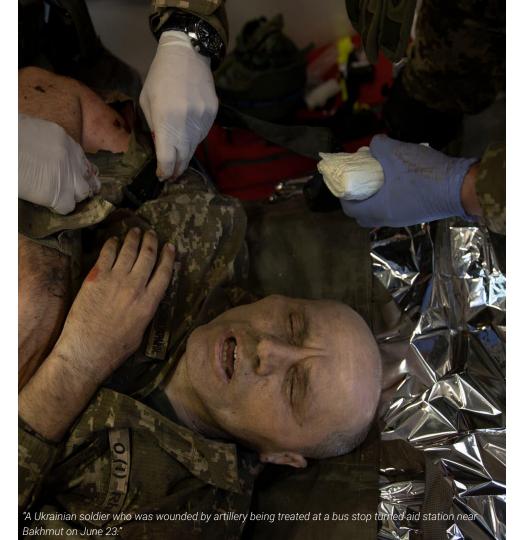
https://academic.oup.com/inthealth/article/11/5/37 9/5420717?login=false





SYSTEMS/ GOVERNANCE

How can the official institutions across
Europe **facilitate** the donation of medical supplies and send them to the hospitals in Ukraine?

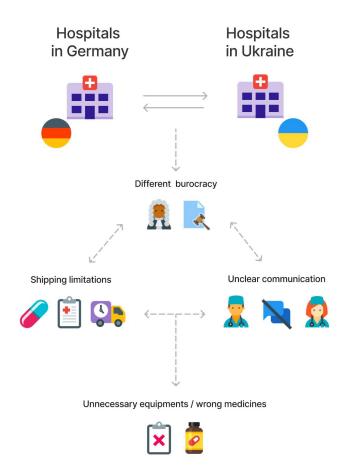


GLOBAL LEVEL

Ukraine is not the only country affected by war nowadays.

Other countries like Syria, Yemen, Eritrea have been suffering from lack of medical supplies for a long time.

Figuring out how to connect donors with countries outside of Europe is crucial to help millions of other civilians who have been living the terror of having a war at their doorstep.



WHY IS IT AN URGENT PROBLEM?

- Many civilians in Ukraine <u>cannot get proper</u> <u>medical help</u>, because the necessary supplies are not available.
- The *donations need to reach* people who need them.
- Improve the communication between hospitals in Ukraine and hospitals in the EU, for example Germany.
- Bring the <u>right supplies</u> to the right people.
- It is difficult to <u>find information on which</u>
 <u>medicines can be shipped</u> (even with a
 medical prescription) without or with
 limitations.

GOALS & VALUES

Goals:

- Treat her patients with the appropriate medication
- Be able to treat war injured patients
- Get in contact with hospitals able to send help for her patients

Values:

- Hippocratic Oath
- Empathy
- Moral Duty
- Peaceful person

Motivations:

- Get the necessary medical supplies to resume her activities
- Care for her patients
- Actively help her country to defeat medical shortages

PAIN POINTS

Fears:

- Bomb attack that destroy the medical facilities
- Being injured and unable to help

Frustrations:

 Not being able to help or be helped due to lack of supplies

Challenges:

- Shortages in various areas (food, hygiene items, etc.)
- Communication problems preventing her to get necessary supplies

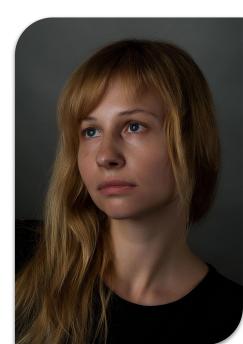
FEELINGS

Worries:

- If the medical supplies will arrive in time
- Keep her family safe

Influences:

- Family and Friends
- People who fight for peace
 - "Doctors without Borders"



RUSLANA K.

Cardiologist/ General Physician at a public clinic in Lviv

Married. Mother of 1 Child

GOALS & VALUES

Goals:

- Continue treating cancer patients appropriately
- Get in touch with hospitals that received patients, to provide medical records

Values:

- Hippocratic Oath
- Patriotism
- Justice

Motivations:

- Provide an appropriated cancer diagnosis and treatment
- Care for his patients
- Help patients to get treated despite the war
- Provide medical assistance for war injured people

PAIN POINTS

Fears:

- Bomb attack that destroy the medical facilities
- Losing his family to the war or to a sickness that can't be treated

Frustrations:

- Inability to provide information about his patients to the hospitals that are now treating them
- Not having enough medication to treat chemotherapy patients properly

Challenges:

 Communication problems between hospitals in Ukraine and hospitals across Europe receiving Ukrainian patients

FEELINGS

Worries:

 If the patients who managed to flee the country will get treated properly, since they don't carry any medical records

Influences:

- Family and Friends
- "Doctors without Borders"



NIKOLAI S.

ONCOLOGIST/ General Physician at a Cancer Research Center in Kyiv

Widowed, Father of 2 Children, 5 Grandchildren

Explorations

"How might we's...?"

<u>Problem 1:</u> Improve the delivery process of medical supplies to Ukraine

- How might we improve the donation to make sure the hospitals get the medical supplies they need?
- How might we make the process of receiving medical supplies take less time?
- How might we better understand the bureaucratic processes to experience less friction in receiving the proper medical supply?

"How might we's...?"

<u>Problem 2:</u> Transferring patient records between hospitals

- How might we facilitate the upload of medical data that guarantees the safety of the information for both hospitals and patients?
- How might we make the transferring of patient data between hospitals easier?
- How might we overcome the language barrier concerning the medical records?

Possible Solutions

 Create an accessible platform that connect hospitals in Ukraine with hospitals in the European Union Create a delivery service that provides feedback about whether the medical supplies were delivered and if the hospitals still need them Create a data transferring app that allows patient data to be quickly available whenever the patients need them

There are platforms collecting donations from all over Europe. However, they are too broad, meaning that they are not focused only on medical supplies.

Just like with the platforms, there are delivery services providing all kinds of supplies across Ukraine. Nevertheless, prescription medication, like the ones used for cancer treatment, is usually unavailable.

One of the big challenges about patient records is the data protection laws that might not allow an easy process of transferring data. The other big problem is the language barrier, since the records are in Ukrainian and the patients might flee to a country that speaks a different language.

Final Solution

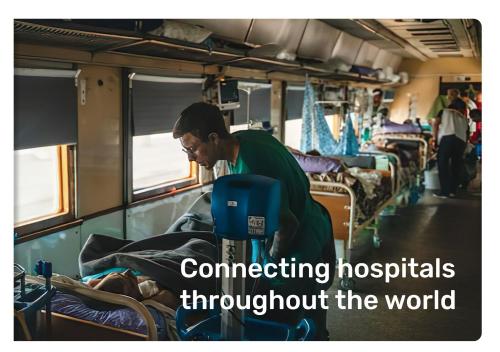


about us

FAQs

REGISTER SIGN IN





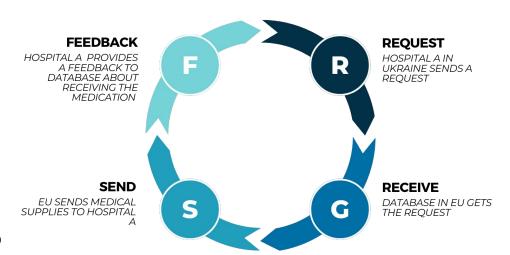


responsive platform for effective communication, where Ukrainian doctors can request medicines and supply they need, upload and access medical records, and exchange information.

FEATURE 1: An effective communication channel

Database

- Platform connecting local and charitable medical organizations to each other to access supply and demand
- Allow medical facilities to request the proper and correct medical supply needed at the time
- Scan feature to recognize medical supplies to bypass need to type each medical supply on keyboard



FEATURE 2: Communication between hospitals

Networking

- Communication between doctors, where they can share information about patients in a safe platform and come up with solutions together
- Allows the medical facilities to send excess medical supplies to the medical facilities that need the medical supply

Language

- **Efficient translation tool** for medication names and patient records
- Platform designed in Ukrainian and English



FEATURE 3: Data protection and patient confidentiality

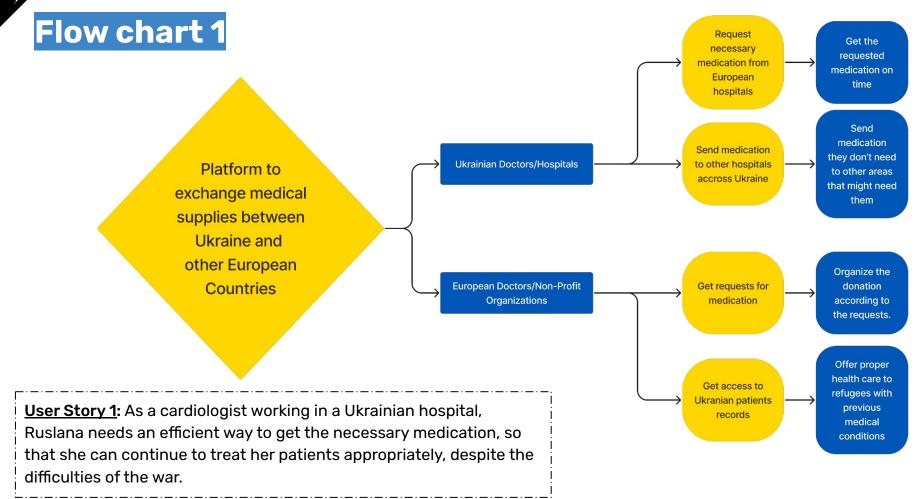
Documentation

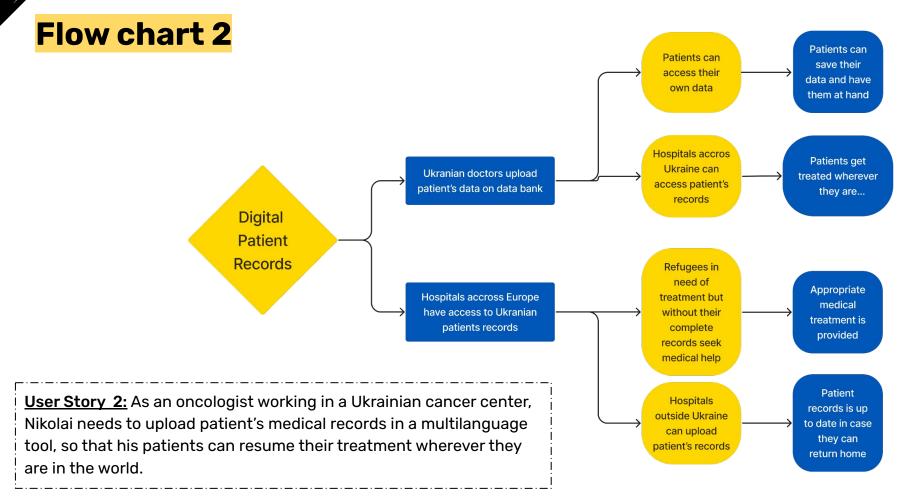
- **Providing medical records for patients** with *difficult medical conditions:*
 - ex. Cancer, PTSD, heart diseases

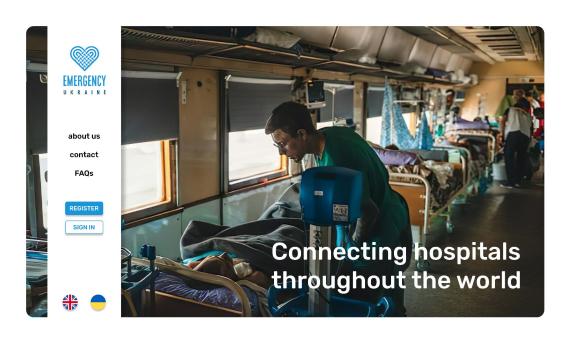
Data Protection

- Encrypt patient records in a three-step process, where the patient, the hospital that treated them first and the hospital to continue the treatment will have access to the data
- Ensure that the data will have a limited storage time, and that it will be destroyed once the storage period is over
- Require at least two-step process to access the data as a patient or a doctor, to prevent hackers from cracking the system



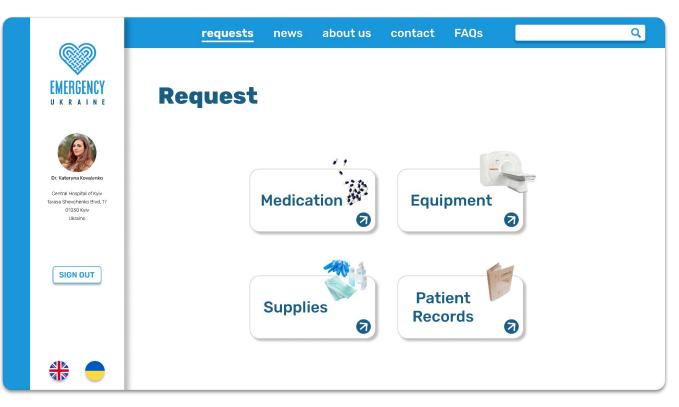




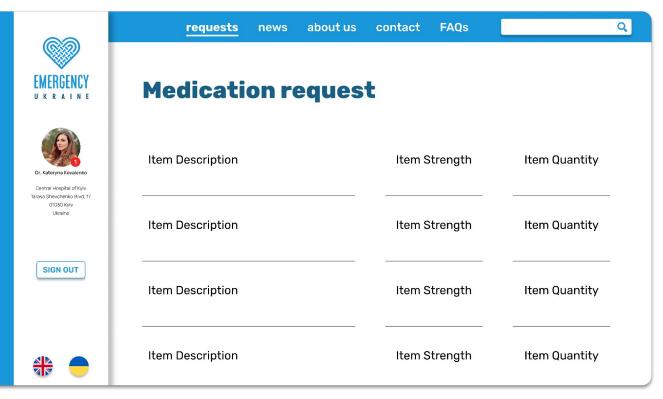


Emergency Ukraine has a simple design precisely because it is focused on functionality.

- The website supports two languages.
- → The menu collects: information about the website, a contact form and a list of questions and answers for the users.
- → The users can choose whether to register a new profile or to log in.

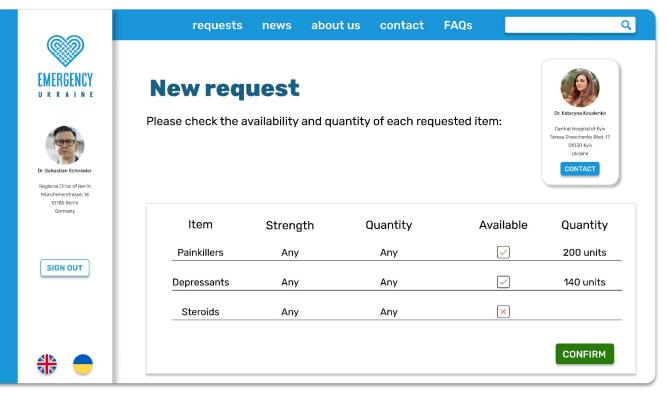


After logging in, the user has several choices divided by categories, to send requests for medical supplies and to request or provide patient records.



On the medication request page, the user can compile a list.

The Ukrainian doctor will need to specify the full name of the medicine, the strength and quantity in order to send the request.



The donor doctors/hospitals will receive the request.

They will have to indicate if the product is available for shipment, specify the amount they intend to donate/send and confirm.

Doctors will also be able to interact with each other if necessary.





Central Hospital of Kylv Tarasa Shevchenko Blvd, 17 01030 Kviv Ukraine

SIGN OUT





	10000	120	
Dr.	Kova	len	ko,

requests

news

in response to your request from 30/07/2022, we hereby inform you that the following items are ready to be sent to you. Please confirm if you still need the items:

contact

about us

FAOs

Item	Strength	Quantity	Origin	Still Needed
Painkillers	Any	Any	Berlin-Germany	\checkmark
Depressants	Any	Any	Krakow-Poland	\checkmark
Steroids	Any	Any	Berlin-Germany	×
Stimulants	Any	Any	Paris-France	\checkmark
				CONFIRM

The Ukrainian doctor receives feedback regarding the previous request.

Q

The origin of the medicines and the quantity ready for shipment will be specified.

Furthermore, the Ukrainian doctor will have to specify if the requested medicines are still needed and confirm.

This is to not only avoid unnecessary medicines being shipped, but also to prevent waste of resources.

DESIGN THINKING

PROCESS

EMPATHIZE	DEFINE	IDEATE	PROTOTYPE	TEST
		-	7	
Theme: Designing for Crisis Research and understand problems	 Problem identified: delivery of medical supplies to Ukraine Urgency/ importance Target user personas 	 Gather ideas Co-design potential solutions Sketching 	 Collaboratively design solutions Document design solution Mock-ups 	 Submit for presentation Video presentation Research with potential users

Impact on the Society

For other war zones

- Improve communication between doctors during a humanitarian crisis.
- Less time to request and receive medical supplies during an emergency scenario.

For non-profit organizations donating supplies

 Raise awareness about medical conditions that have nothing to do with war, but can't be treated because the right medicine never arrives.

For society in general

 Facilitate the transfer of medical records, so that patients can easily resume the treatment anywhere in the world.



Sustainability

HOW IS YOUR SOLUTION SUSTAINABLE?

Long-lasting

 After the war, the platform can be used as a communication tool and for patient's records.

Sustainable

 It can improve the process of donation between countries with more resources and countries in need of medical supplies.

Good for the planet

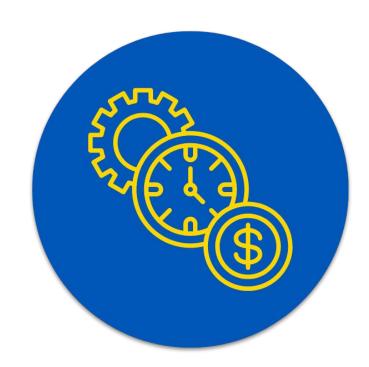
- Reuse medical equipments by donating them to hospitals in need.
- Less waste of paper for documentation.
- Less waste of medication.



Practicality & Business Viability

HOW CAN YOUR SOLUTION BE IMPLEMENTED AND SUCCESSFUL?

- Cooperation between product owners and Ministry of Health from countries in war to ensure a safe data transfer from paper records to digital records.
- Ukraine already started a digitalization process in the health care sector, so there is an openness to use digital tools.
- Financial aid from donors and government to create and maintain the platform.
- Provide tutorials to help doctors and patients use the various tools and features.



Sources:

Slide 1:

// Artist: Sasha Korban

Slide 3:

// Mauricio Lima for The New York Times

Available at: https://www.nytimes.com/article/russia-invades-ukraine-photos.html [Accessed 19 July 2022].

Slide 4:

// Linsey Addario for The New York Times

Available at: https://www.nytimes.com/article/russia-invades-ukraine-photos.html [Accessed 19 July 2022].

Slide 5:

// Chris McGrath/Getty Images

Available at: https://www.axios.com/2022/05/10/ukraine-death-chronic-treatment-who [Accessed 19 July 2022].

Slide 6:

// Tyler Hicks/The New York Times

Available at: https://www.nytimes.com/article/russia-invades-ukraine-photos.html [Accessed 19 July 2022].

Slide 7:

// Figma Plugin Icons8

Slide 8:

// Persona Reference:

https://www.leadwithprimitive.com/blog/buyer-persona-examples-defining-your-target-audience https://avidmode.com/blog/creating-personas-for-products-customer-service-and-marketing

Slide 9:

// Persona Reference:

https://www.leadwithprimitive.com/blog/buyer-persona-examples-defining-your-target-audience https://avidmode.com/blog/creating-personas-for-products-customer-service-and-marketing

Slide 22:

Reforms in the Health Sector in Ukraine

https://thedocs.worldbank.org/en/doc/796791611679539176-0090022021/Reforms-in-the-Health-Sector-in-Ukraine