SABANCI University

Faculty of Engineering and Natural Sciences

Fall 2021

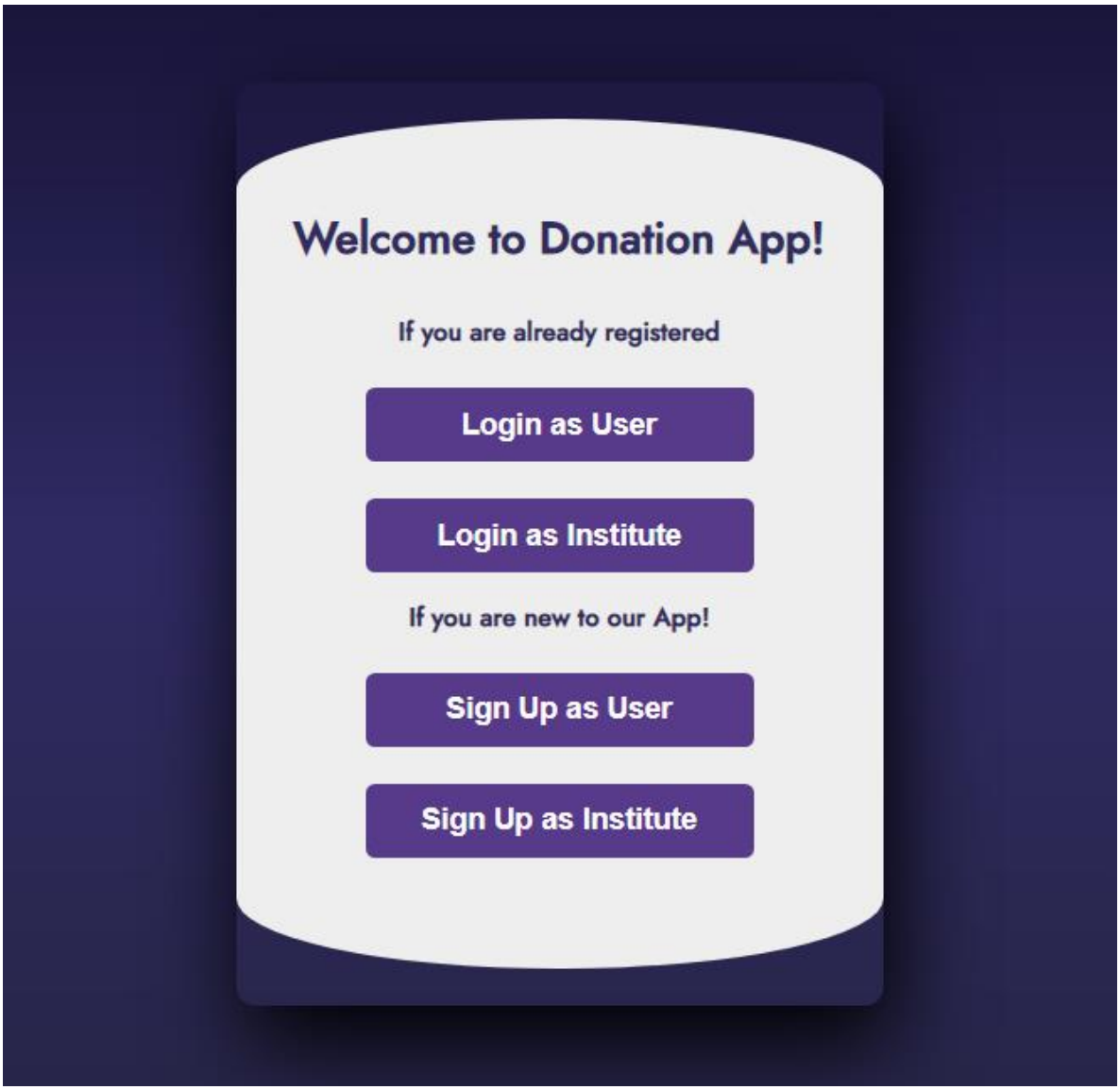
CS306 Database Systems

Ege Erdoğan 25331

TERM PROJECT

Donate for Better Future (DBF)

INDEX (WELCOME) WEB PAGE

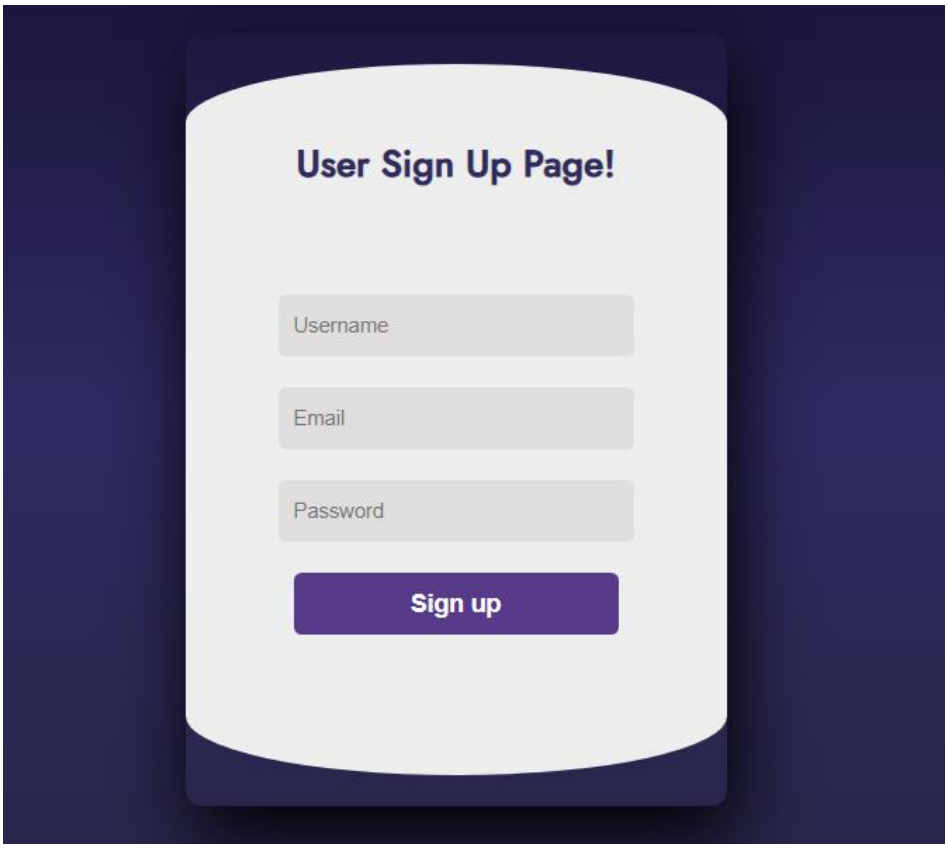


This is the Welcoming page of my application. Part of the styling, css, is taken from internet.

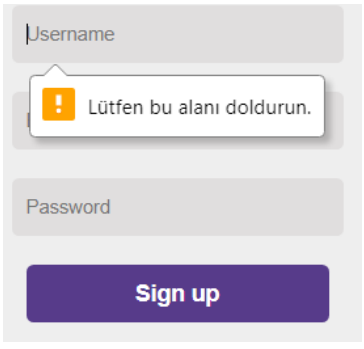
In the application, there are two different users who are normal people and institutes, so we have two different login ways to application. If the user of the application does not hold an account, it can sign up to application.

Sign Up as User

If the **sign up as user** is button clicked in the welcome page:



Each input field should be filled before clicking Sign Up button. Otherwise, the following prompt is shown:



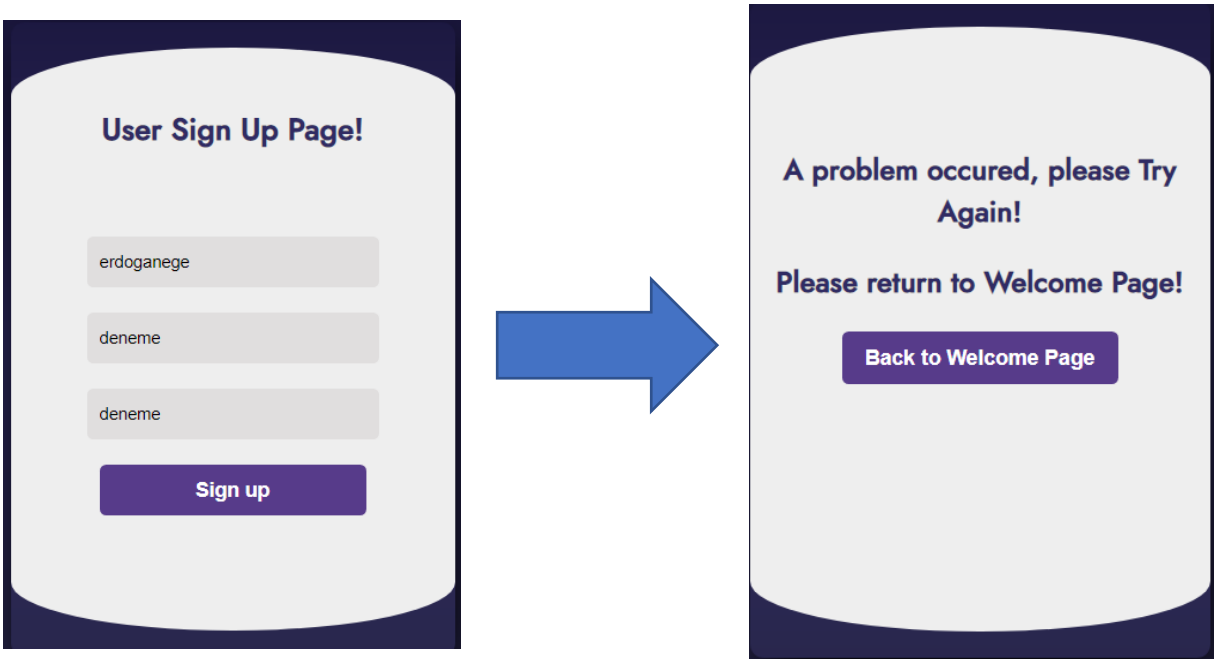
After filling all required information about signing up, if the inputs do not violate the table restrictions, new user will be added to the database of the application.

Previously user relation in database:

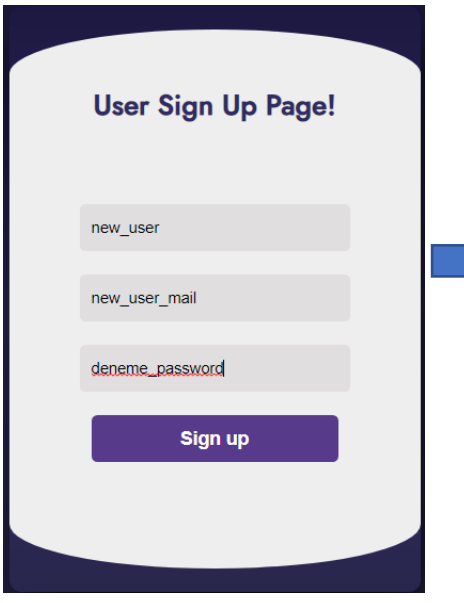
+ Seçenekler

	user_id	username	password	mail
Düzenle Kopyala Sil	4	ayse	ayse123	mail4
Düzenle Kopyala Sil	1	erdoganege	ege123	mail1
Düzenle Kopyala Sil	5	fatma	fatma123	mail5
Düzenle Kopyala Sil	3	mehmet	mehmet123	mail3

Inputting invalid information (e.g., non-unique username, password, or mail):



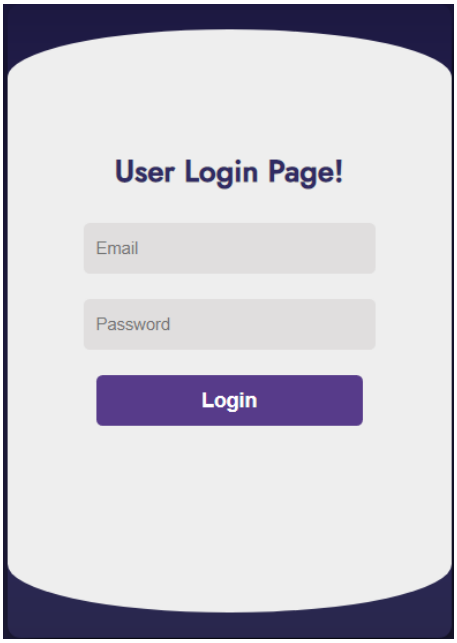
Inputting valid information:



	user_id	username	password	mail
Düzenle Kopyala Sil	4	ayse	ayse123	mail4
Düzenle Kopyala Sil	1	erdoganege	ege123	mail1
Düzenle Kopyala Sil	5	fatma	fatma123	mail5
Düzenle Kopyala Sil	3	mehmet	mehmet123	mail3
Düzenle Kopyala Sil	7	new_user	deneme_password	new_user_mail

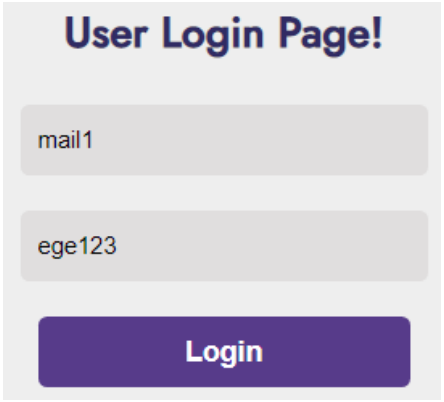
Login as User

If you already signed up, or successfully signed up, you will be navigated to the login page:



Input Invalid Information (non-existing mail and password combination):

Input Valid Information:



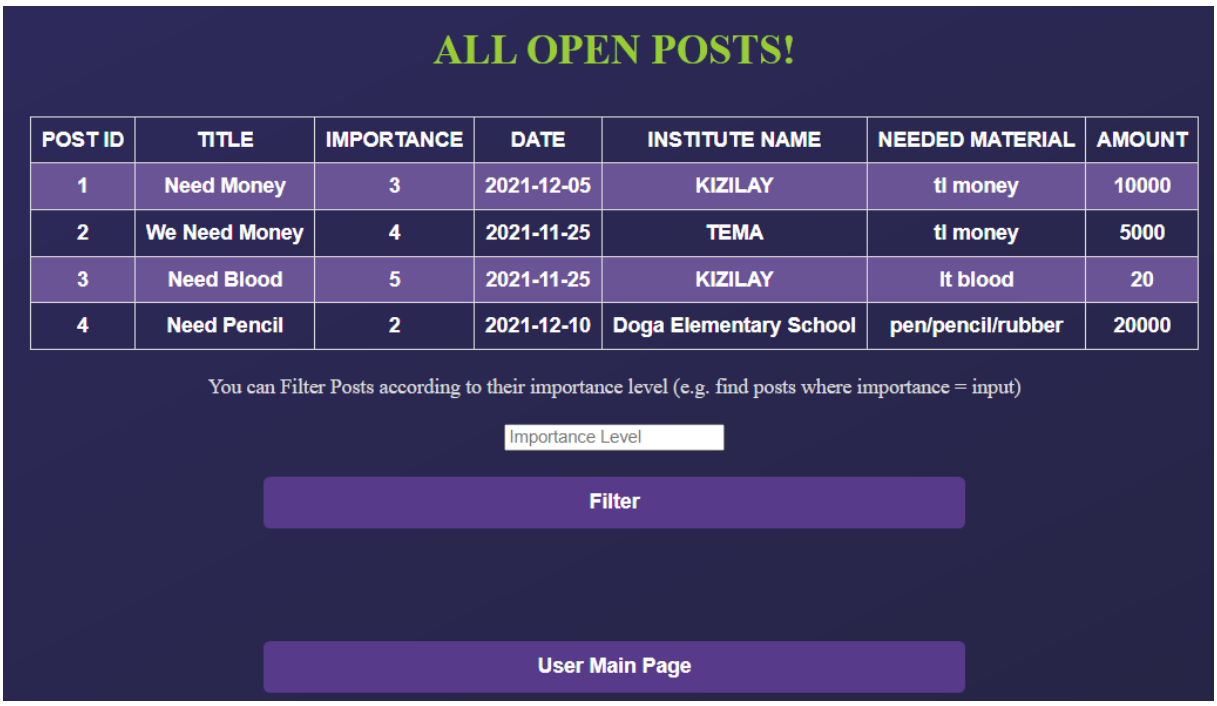
MAIN USER PAGE

If a user successfully login the application, following web page is shown:

There are 5 possible options for user to do. User can see all open posts, donation history, make a new donation to an open post, delete his/her account, or can log out from the account.

SEE ALL OPEN POSTS

When a user clicks the button of ‘See All Open Posts’, all of the available posts shown as following web page:

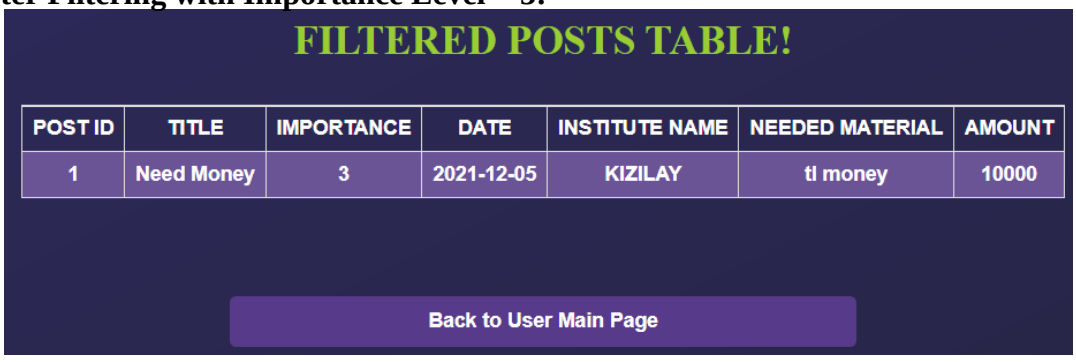


User can see all open posts which are available in the database as following:

	post_id	title	importance	date	institute_id	needs_id
Düzenle Kopyala Sil	1	Need Money	3	2021-12-05	1	1
Düzenle Kopyala Sil	2	We Need Money	4	2021-11-25	2	2
Düzenle Kopyala Sil	3	Need Blood	5	2021-11-25	1	5
Düzenle Kopyala Sil	4	Need Pencil	2	2021-12-10	4	4

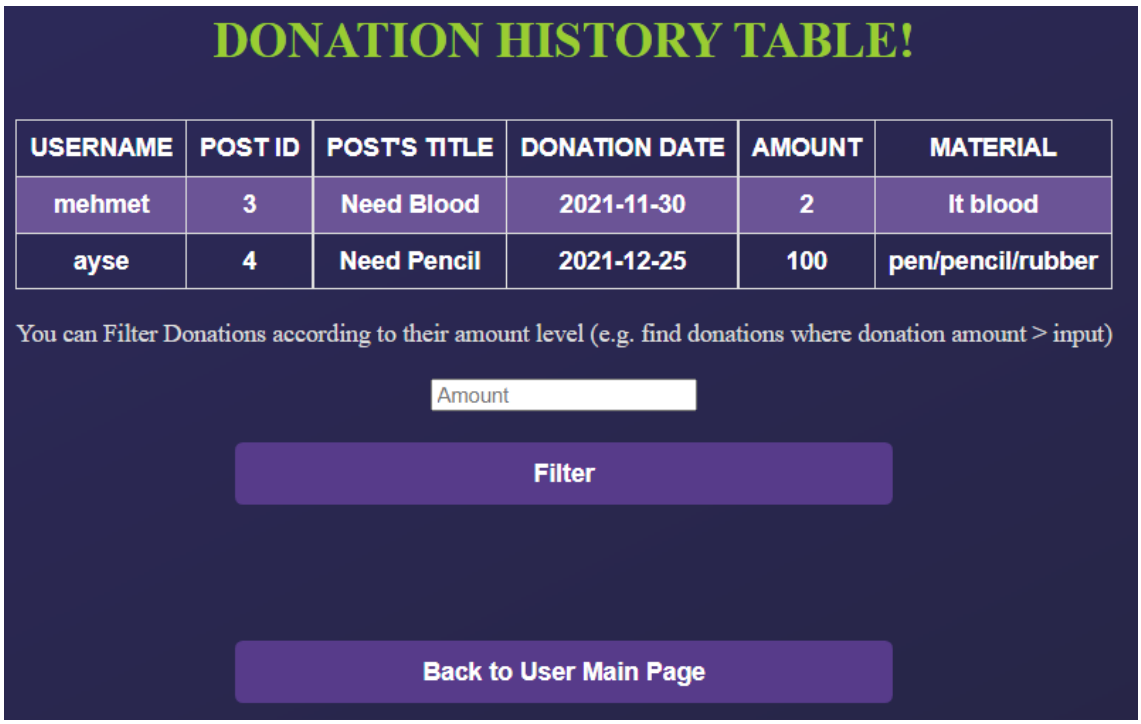
User can use the filter button to see only posts that have specific importance level.

After Filtering with Importance Level = 3:



SEE ALL DONATION HISTORY

When a user clicks the button of ‘See All Donation History’, all of the previous donations shown as following web page:

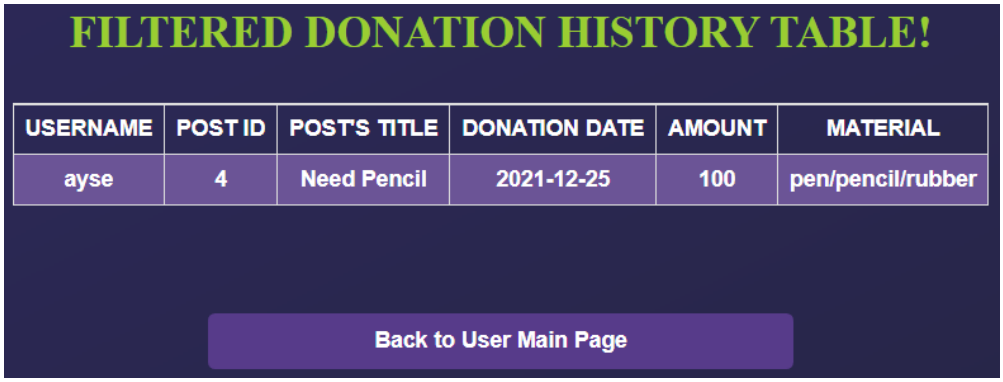


User can see all previous donations which are available in the database as following:

	user_id	post_id	donation_date	amount	material
Düzenle Kopyala Sil	3	3	2021-11-30	2	It blood
Düzenle Kopyala Sil	4	4	2021-12-25	100	pen/pencil/rubber

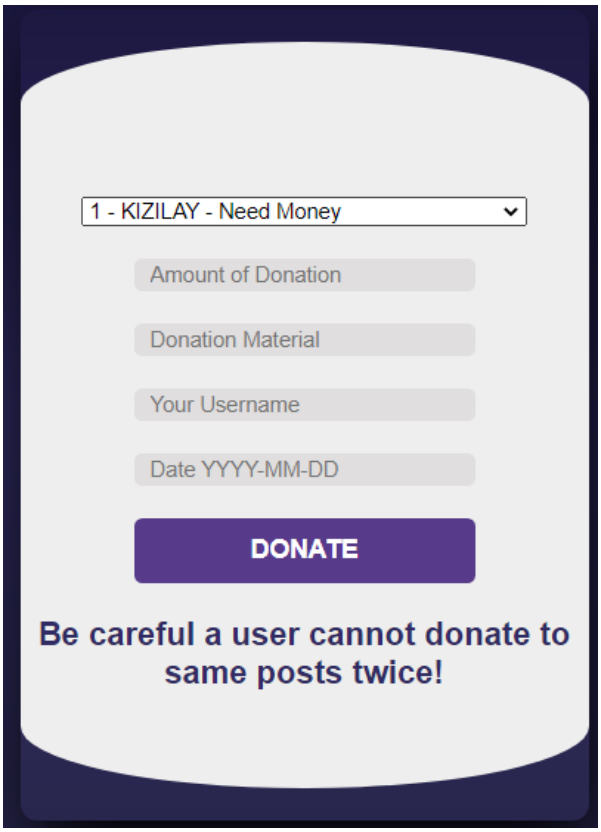
User can use the filter button to see only donations that have more amount than input.

After Filtering with Amount = 50:



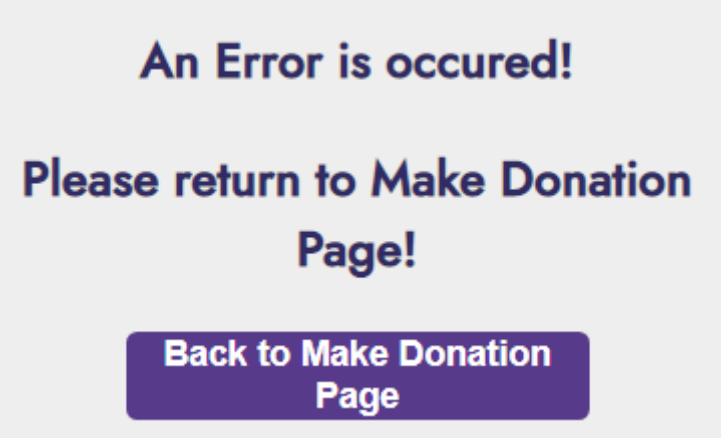
MAKE A DONATION

When a user clicks the button of ‘Make a Donation’, to make a new donation:

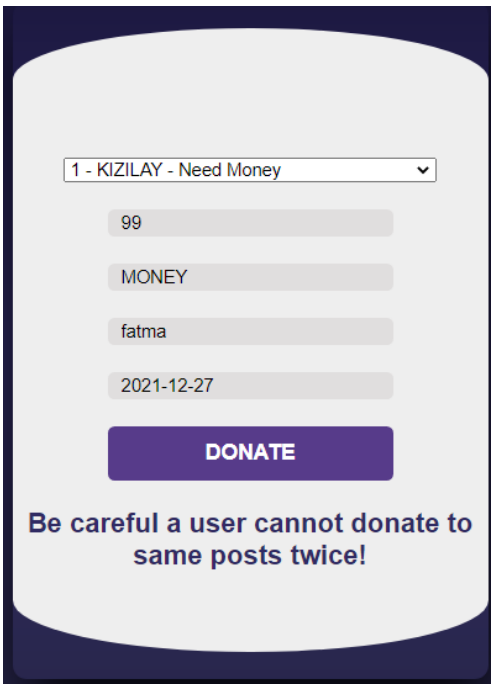


User chooses the post from select html object, fills the necessary input fields. Then, clicks to donate button.

If the user tries to make donation to same post twice, appropriate error web page is shown.

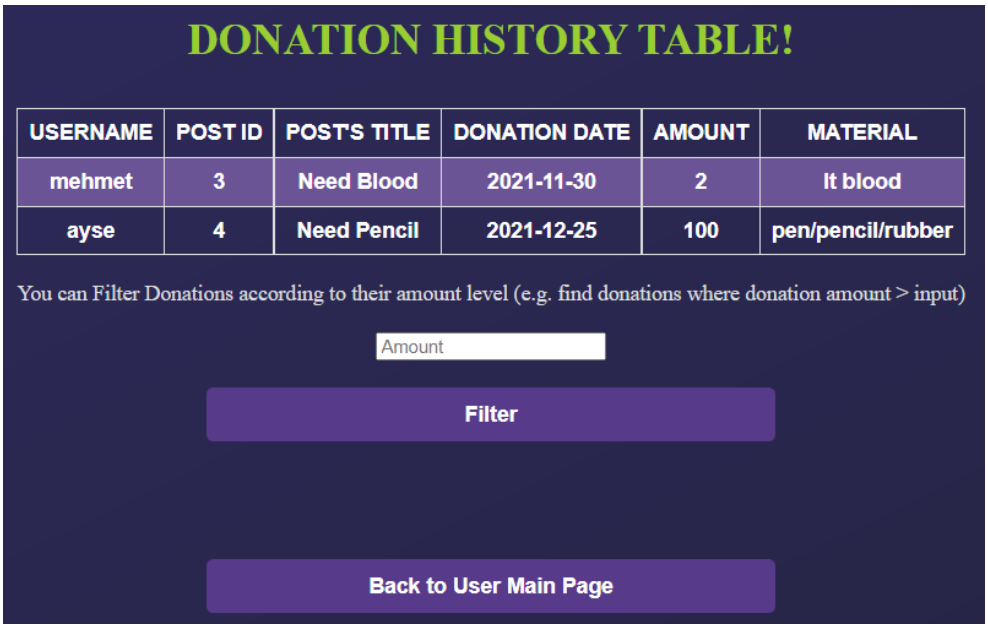


Inputting Valid Information:



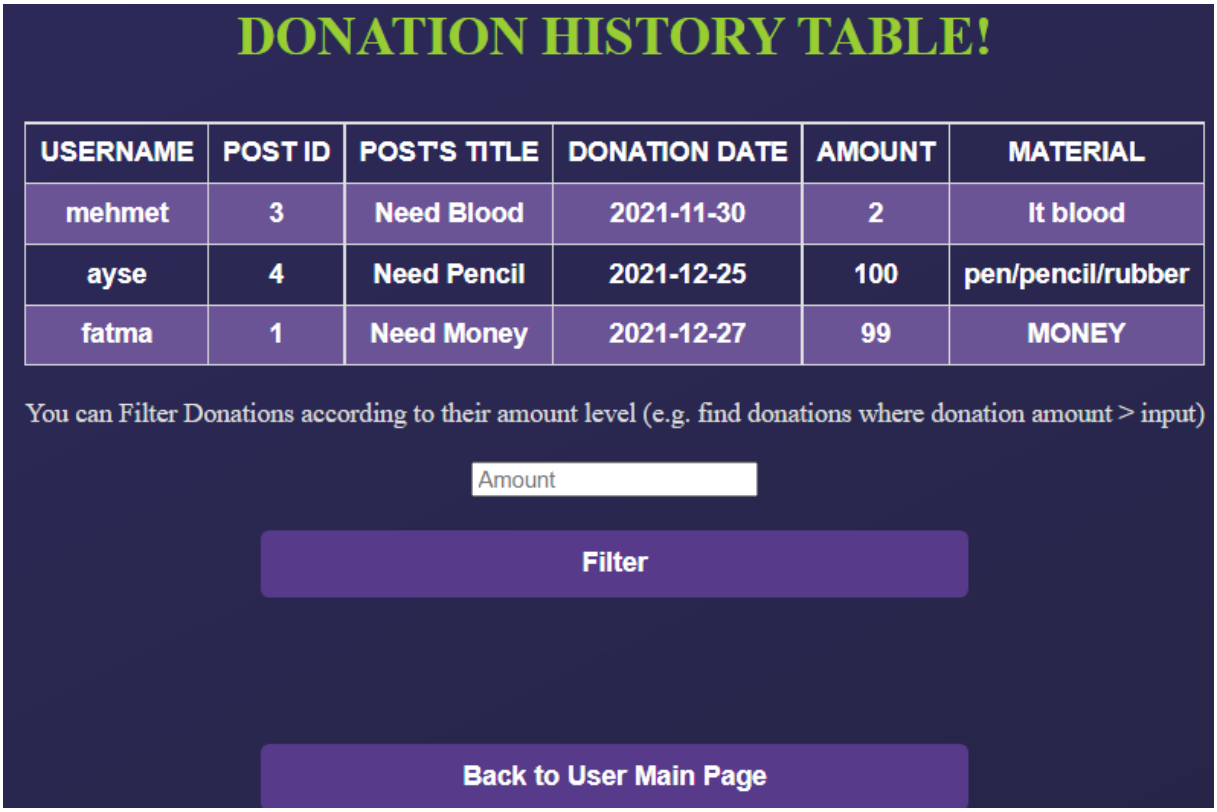
Before clicking the Donate button:

	user_id	post_id	donation_date	amount	material
Düzenle Kopyala Sil	3	3	2021-11-30	2	lt blood
Düzenle Kopyala Sil	4	4	2021-12-25	100	pen/pencil/rubber



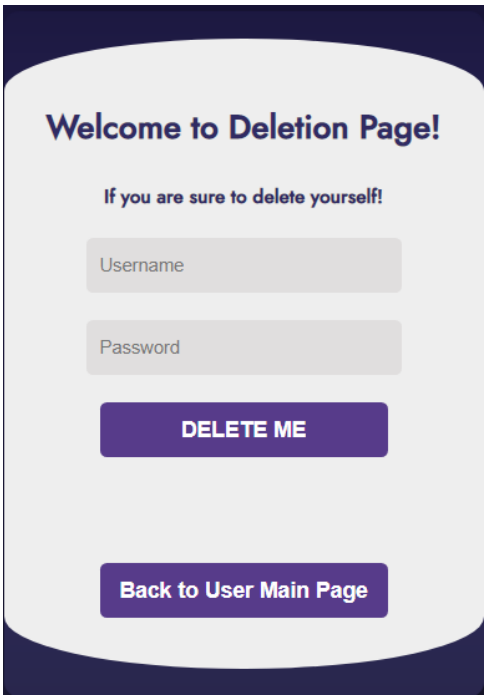
After clicking the Donate Button:

	user_id	post_id	donation_date	amount	material
Düzenle Kopyala Sil	3	3	2021-11-30	2	lt blood
Düzenle Kopyala Sil	4	4	2021-12-25	100	pen/pencil/rubber
Düzenle Kopyala Sil	5	1	2021-12-27	99	MONEY



DELETE ME FROM DATABASE

When a user clicks the button of ‘Delete Me From Database’, the following web page is shown:

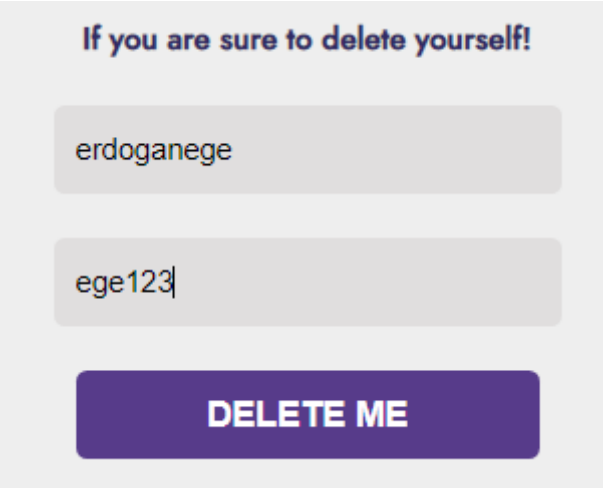


Currently, user database as following:

	user_id	username	password	mail
Düzenle Kopyala Sil	4	ayse	ayse123	mail4
Düzenle Kopyala Sil	1	erdoganege	ege123	mail1
Düzenle Kopyala Sil	5	fatma	fatma123	mail5
Düzenle Kopyala Sil	3	mehmet	mehmet123	mail3
Düzenle Kopyala Sil	7	new_user	deneme_password	new_user_mail

Input Invalid Information (non-existing username and password combination):

Input Valid Information:

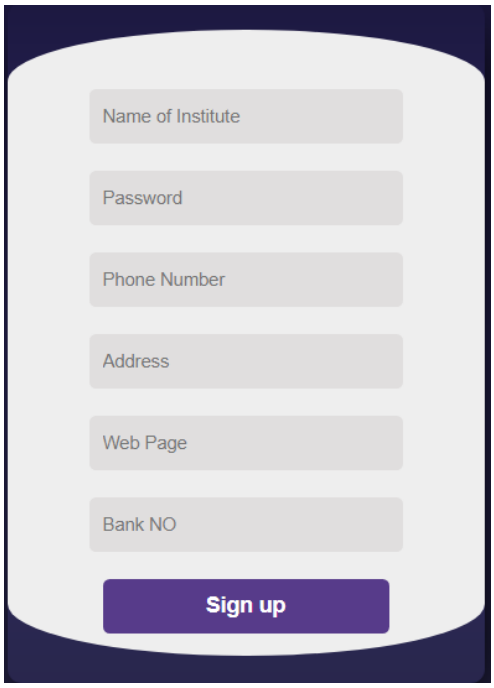


After Deletion of user erdoganege:

←T→	user_id	username	password	mail
Düzenle Kopyala Sil	4	ayse	ayse123	mail4
Düzenle Kopyala Sil	5	fatma	fatma123	mail5
Düzenle Kopyala Sil	3	mehmet	mehmet123	mail3
Düzenle Kopyala Sil	7	new_user	deneme_password	new_user_mail

If the user clicks 'Log Out' button, user navigated to the Welcome Page.

Sign Up as Institute

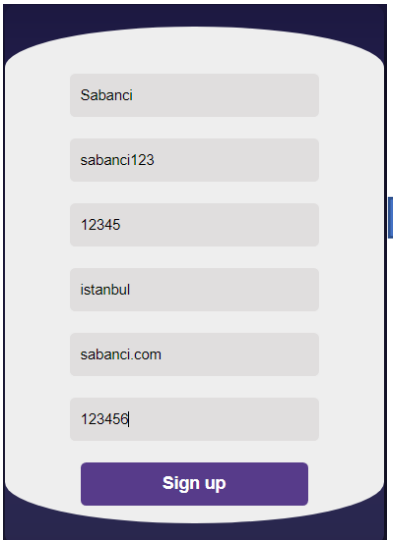


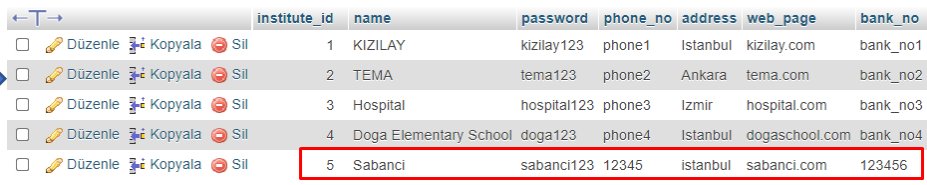
It is same as user signing up, all required input fields must be filled and must be unique name in the database. If the inputs are not valid, same error page is shown as above.

Previously institutes relation in database:

	institute_id	name	password	phone_no	address	web_page	bank_no
Düzenle Kopyala Sil	1	KIZILAY	kizilay123	phone1	Istanbul	kizilay.com	bank_no1
Düzenle Kopyala Sil	2	TEMA	tema123	phone2	Ankara	tema.com	bank_no2
Düzenle Kopyala Sil	3	Hospital	hospital123	phone3	Izmir	hospital.com	bank_no3
Düzenle Kopyala Sil	4	Doga Elementary School	doga123	phone4	Istanbul	dogaschool.com	bank_no4

Inputting valid information:

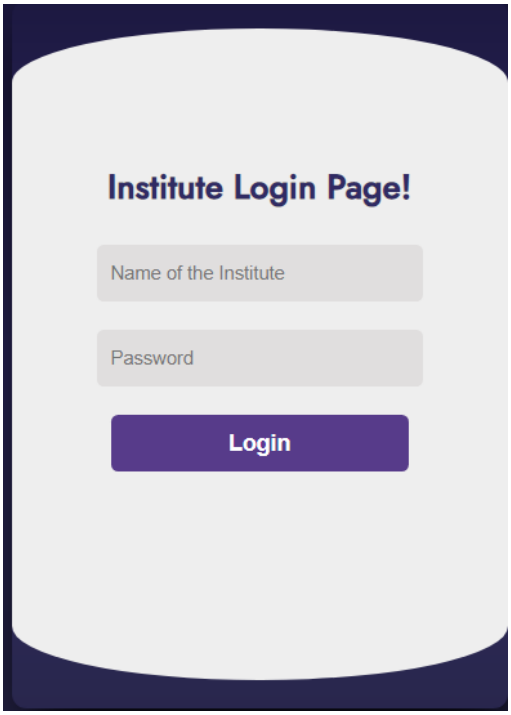




	institute_id	name	password	phone_no	address	web_page	bank_no
Düzenle Kopyala Sil	1	KIZILAY	kizilay123	phone1	Istanbul	kizilay.com	bank_no1
Düzenle Kopyala Sil	2	TEMA	tema123	phone2	Ankara	tema.com	bank_no2
Düzenle Kopyala Sil	3	Hospital	hospital123	phone3	Izmir	hospital.com	bank_no3
Düzenle Kopyala Sil	4	Doga Elementary School	doga123	phone4	Istanbul	dogaschool.com	bank_no4
Düzenle Kopyala Sil	5	Sabanci	sabanci123	12345	istanbul	sabanci.com	123456

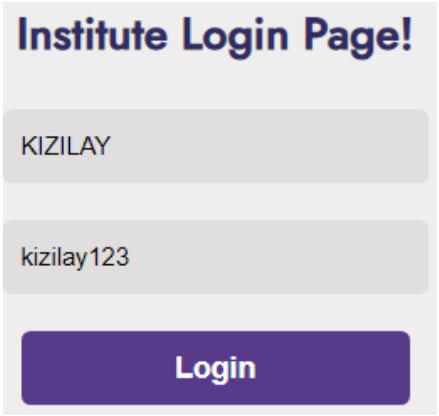
Login as Institute

If the institute is already signed up, or successfully signed up, it will be navigated to the login page:



Input Invalid Information (non-existing name and password combination):

Input Valid Information:



MAIN INSTITUTE PAGE

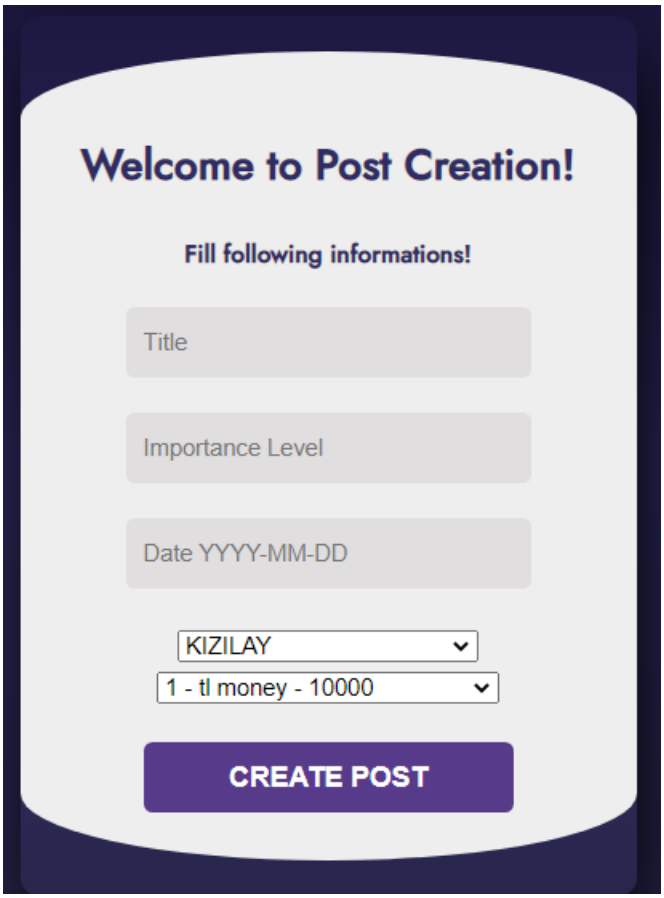
If an institute successfully login the application, following web page is shown:

There are 5 possible options for institute to do. Institute can see all open posts, donation history, create a new post, delete its account, or can log out from the account.

First two options results with the same web pages as in the user case. Therefore, they are now shown in the report.

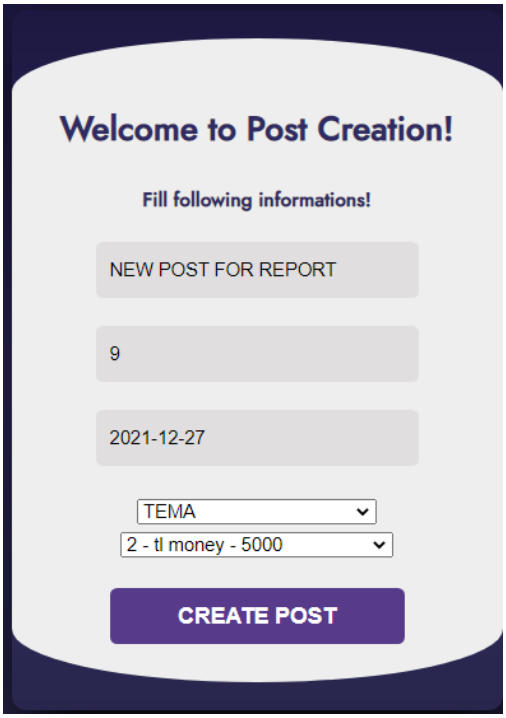
CREATE A NEW POST

When an institute clicks the button of ‘Create a New Post’, the following web page is shown:



Institute fills the first three input fields with hands. Then, it chooses its name from the list as the institute must be registered in the database to create a post. Then, it chooses specific need of the post from needs relation in the database.

Inputting valid information:



Posts relation in database before clicking create post button:

+ Seçenekler

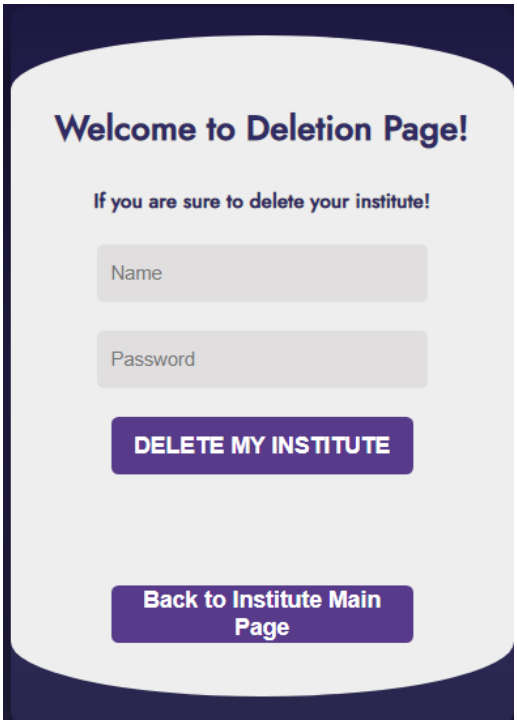
	post_id	title	importance	date	institute_id	needs_id
Düzenle Kopyala Sil	1	Need Money	3	2021-12-05	1	1
Düzenle Kopyala Sil	2	We Need Money	4	2021-11-25	2	2
Düzenle Kopyala Sil	3	Need Blood	5	2021-11-25	1	5
Düzenle Kopyala Sil	4	Need Pencil	2	2021-12-10	4	4

After clicking create post button:

	post_id	title	importance	date	institute_id	needs_id
Düzenle Kopyala Sil	1	Need Money	3	2021-12-05	1	1
Düzenle Kopyala Sil	2	We Need Money	4	2021-11-25	2	2
Düzenle Kopyala Sil	3	Need Blood	5	2021-11-25	1	5
Düzenle Kopyala Sil	4	Need Pencil	2	2021-12-10	4	4
Düzenle Kopyala Sil	6	NEW POST FOR REPORT	9	2021-12-27	2	2

DELETE MY INSTITUTE

When an institute clicks the button of ‘Delete My Institute’, the following web page is shown:

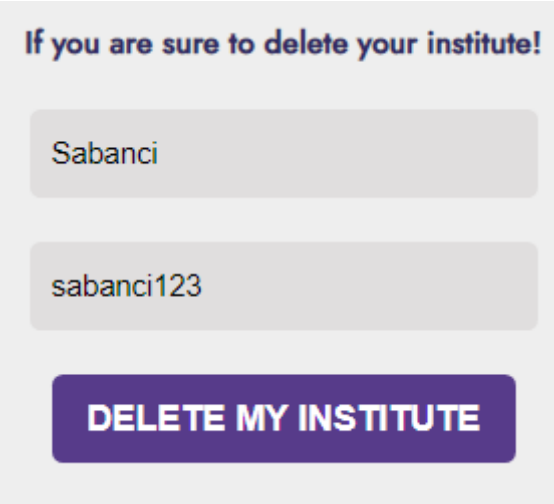


Currently, institutes database as following:

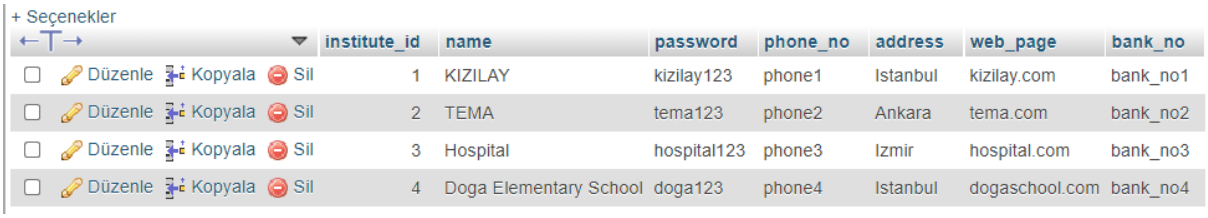
	institute_id	name	password	phone_no	address	web_page	bank_no
Düzenle Kopyala Sil	1	KIZILAY	kizilay123	phone1	Istanbul	kizilay.com	bank_no1
Düzenle Kopyala Sil	2	TEMA	tema123	phone2	Ankara	tema.com	bank_no2
Düzenle Kopyala Sil	3	Hospital	hospital123	phone3	Izmir	hospital.com	bank_no3
Düzenle Kopyala Sil	4	Doga Elementary School	doga123	phone4	Istanbul	dogaschool.com	bank_no4
Düzenle Kopyala Sil	5	Sabanci	sabanci123	12345	istanbul	sabanci.com	123456

Input Invalid Information (non-existing name and password combination):

Input Valid Information:



After Deletion of institute Sabanci:



+ Seçenekler

	institute_id	name	password	phone_no	address	web_page	bank_no
Düzenle Kopyala Sil	1	KIZILAY	kizilay123	phone1	Istanbul	kizilay.com	bank_no1
Düzenle Kopyala Sil	2	TEMA	tema123	phone2	Ankara	tema.com	bank_no2
Düzenle Kopyala Sil	3	Hospital	hospital123	phone3	Izmir	hospital.com	bank_no3
Düzenle Kopyala Sil	4	Doga Elementary School	doga123	phone4	Istanbul	dogaschool.com	bank_no4

If the institute clicks ‘Log Out’ button, institute navigated to the Welcome Page.

Consequently, web application is used by two different user type as a normal person or an institute. User and/or institute can login or sign up to web application. They may see all open posts, donation histories and log out from the web application. They both can filter posts or donations with their inputs. User can make a donation to a post. Institute can create a new post for possible donations. They can both delete their own account from the application.

All updates are reflected to the database as proper way without violating table restrictions.

Used Relations:

5 Different Relations are actively used in the web application:

1. **Users Table**
2. **Institutes Table**
3. **Posts Table**
4. **Needs Table**
5. **Donation Table**

Following 3 actions are implemented:

1. **Inserting a new element to tables**
2. **Deleting an existing entry from table**
3. **Selecting / Filtering existing tables according to user input**

Used Technologies:

1. **HTML**
2. **CSS**
3. **PHP**