Together we can

Database class project 2020/2021

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Date/time

---------------------------------------This section is intended for the Instructor----------------------------------

Topic	Mark
Project Requirements and Modeling	
Correctness of Database mapping	
Functional Dependency and Normalization	
Project Tools	
Project Discussion	
Project Completeness	
Project Output Results or reporting (JasperReport, charts, graphs, etc.)	
Project Administration and Management	
Project Report	
Project Idea	
Project Complexity	
Team work	

Abstract:

Together we can is a project to spread love, cooperation and goodness among people and to help the needy.

Content:

Introduction:

We designed and programmed a program called together we can that allows the user to donate either money or items, and the user can see all what he donated, and the user can learn about the most important achievements that have been achieved in using this application. This program allows the user to donate without the need to go to places for donation or charitable societies and thus help the poor and needy and to spread goodness, peace, love and brotherhood among people.

Requirements:

Together we can is organized in to donor. Each donor has a unique email, name, password, phone number and gender.

Each donor can donate many thing then he may have achievements.

Donation section has a unique ID and name of the charity to which the donation was made, it allow the donor to donate either money or items or both.

The money donation section contains the name of the bank and the amount of money .

The items donation section has: type of item, description, quantity and photo of item.

The AppAchievements has a unique ID and achievements description.

Donation list has either money or items or both that the donor has donated.

LOGIN has a unique ID and email.

Functional Dependency:

Donner table:

Doner	
PK	Ssn
	Email
	Fname
	Lname
	Password
	Phone number
	AdminUser
	Gender

SSN → Email, Fname, Lname, Password, Phone number, Adminuser, Gender.

Donation table:

Donation	
PK	Did
	Donatefor
	visa
	money
	Type
	Description
	Quantity
	photo
	forignmoney
	forignitem
	DonSsn

Did→ Donatefor, visa, money, Type, Description, Quantity, photo, forignmoney, forignitem, Donssn.
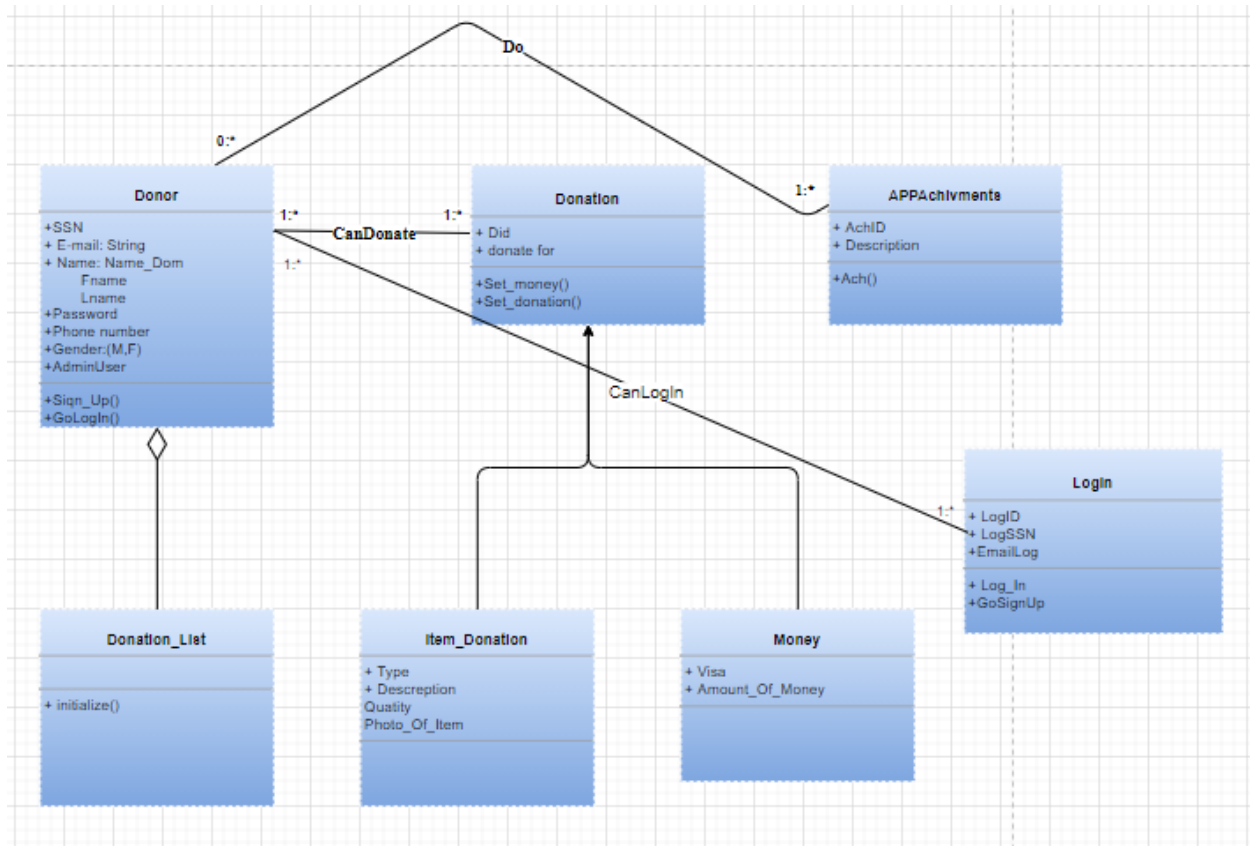
Achievements table:

Achivments	
PK	Appachid
	Text

Appahid→ Text.

Login table:

Login	
PK	logid
	logssn
	logemail

logid→ logssn, logemail.

UMI:

Checking if the Tables in 3NF

All tables are in 3NF.

 1NF: they in which the intersection of every column and record contains only one value .

2NF: they don't have any composite key.

3NF: there is no non primary key column is transitively dependent on the primary key.

Tools Used:

1. Intellij as an IDE for Java.

2. Jasper soft studio for jasper report.

3. Oracle 12.2.0.1-slim as a database which is created inside a docker container using docker-compose uml file.

4. Draw.io for creating the initial Database UML.

5. Scene Builder for creating the FXML files used inside the JavaFX Project.

6. SQL Developer for connecting and creating the database tables and SQL Testing.

7. CSS for styling the interfaces in JavaFX.

8. Word documents.
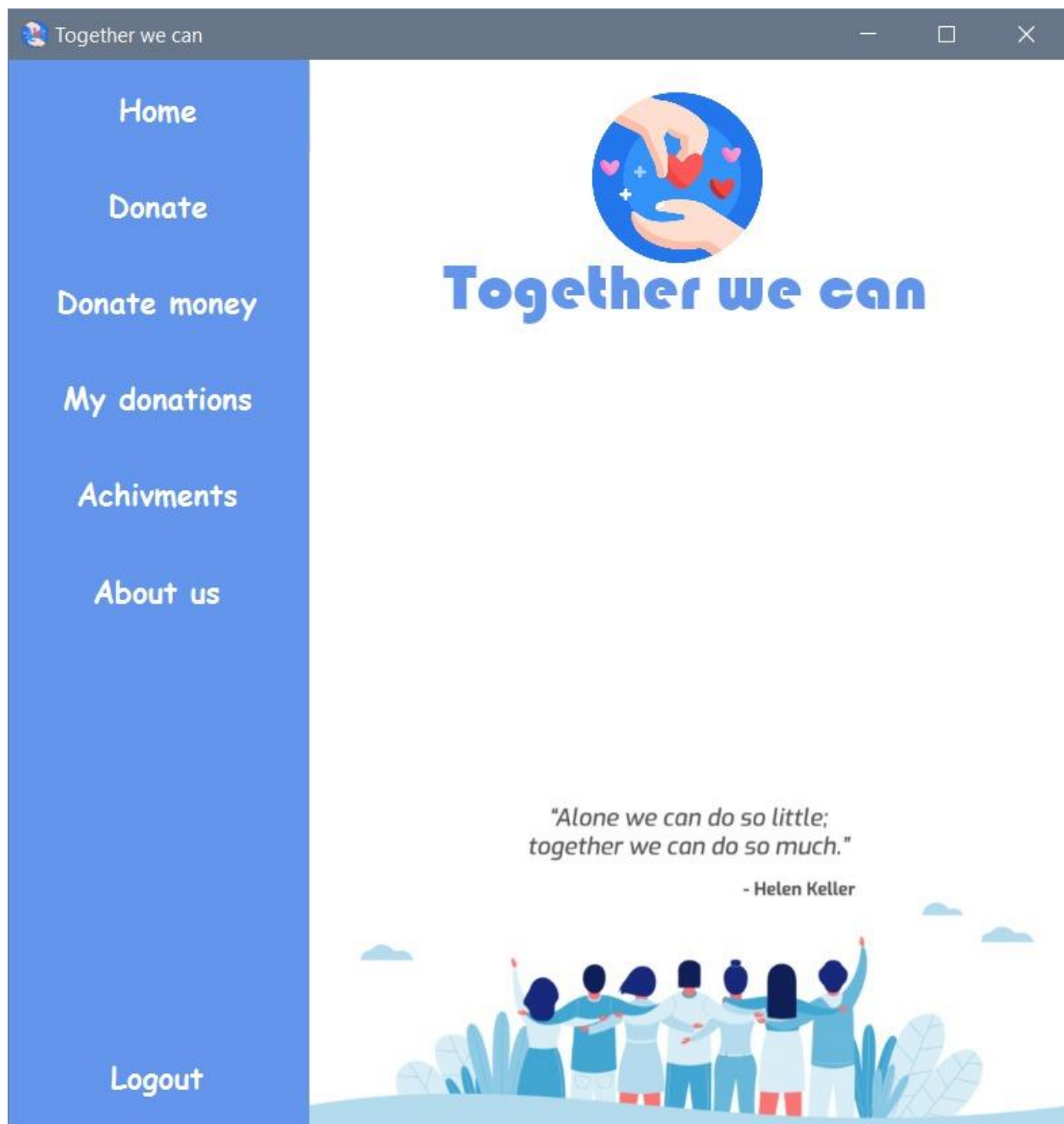
9. Text documents.

GUI:
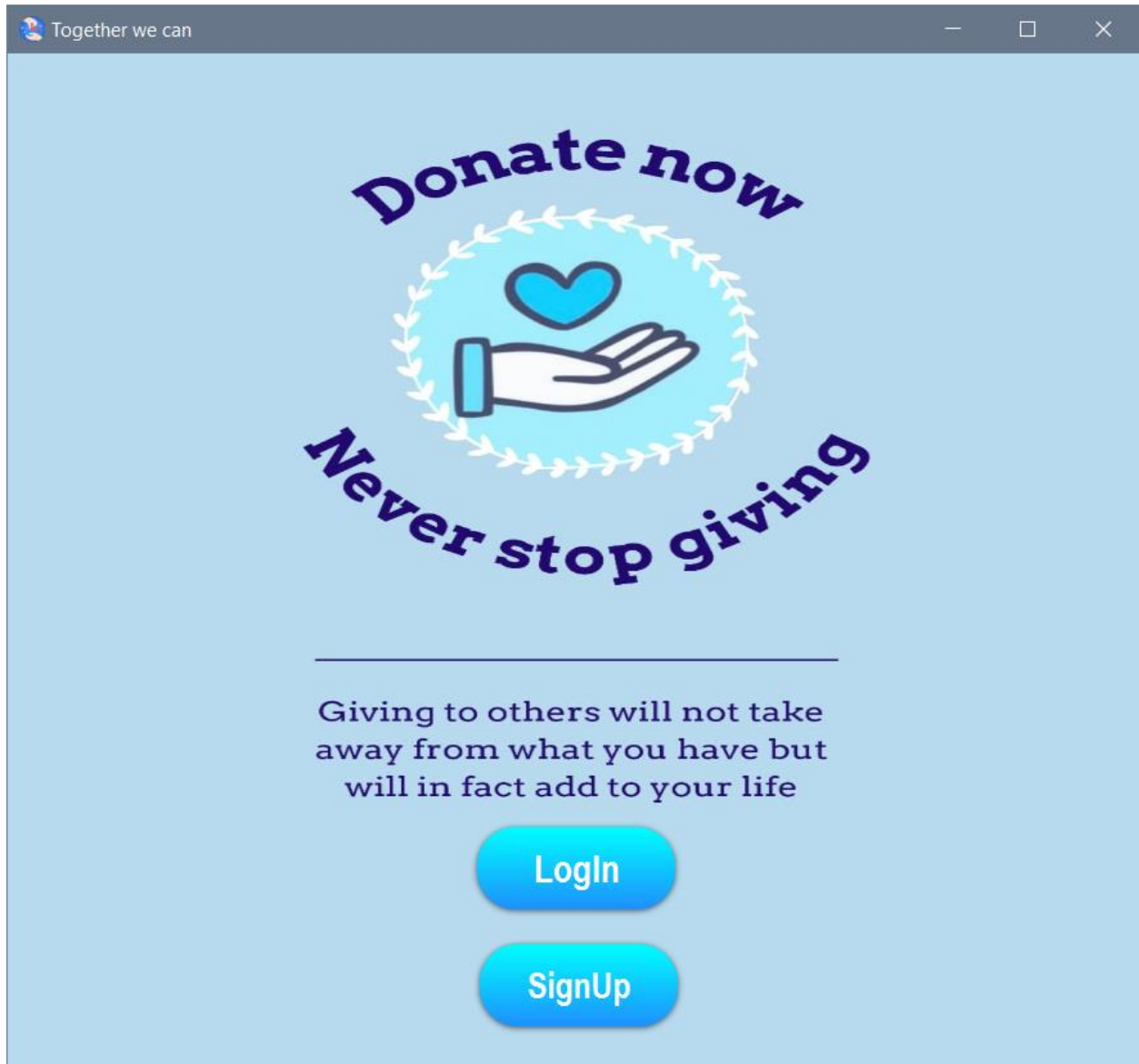
Main page:

Through this interface, the user can choose whether he wants to log in or create a new account.
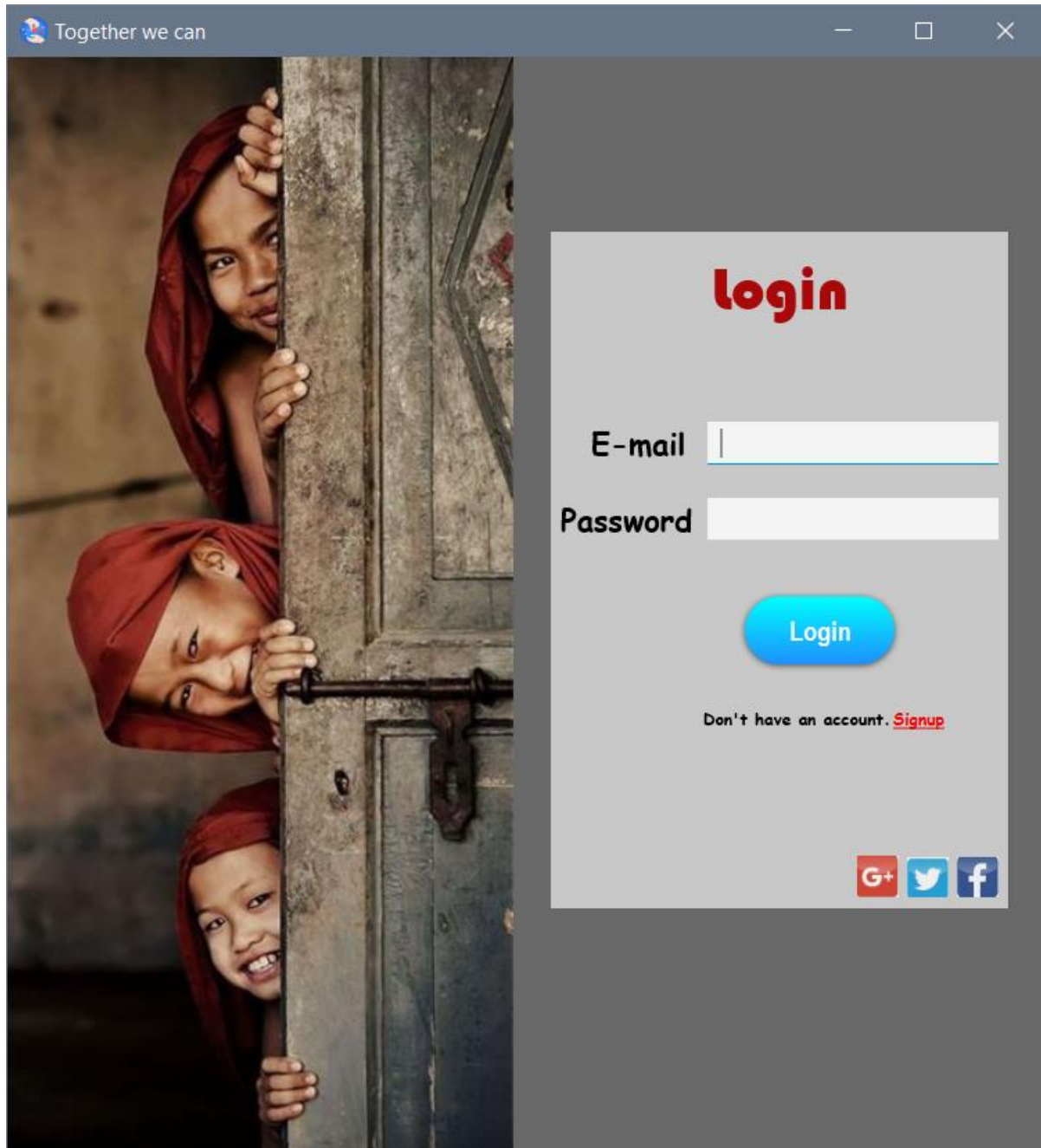
From email can determine if user admin or user then log in.

If the user click on signup he will go to create new account.

If the user is already registered and has entered both the email and password correctly, then the following screen appears:

When you click Donate, a screen will appear in which you can donate anything you want.
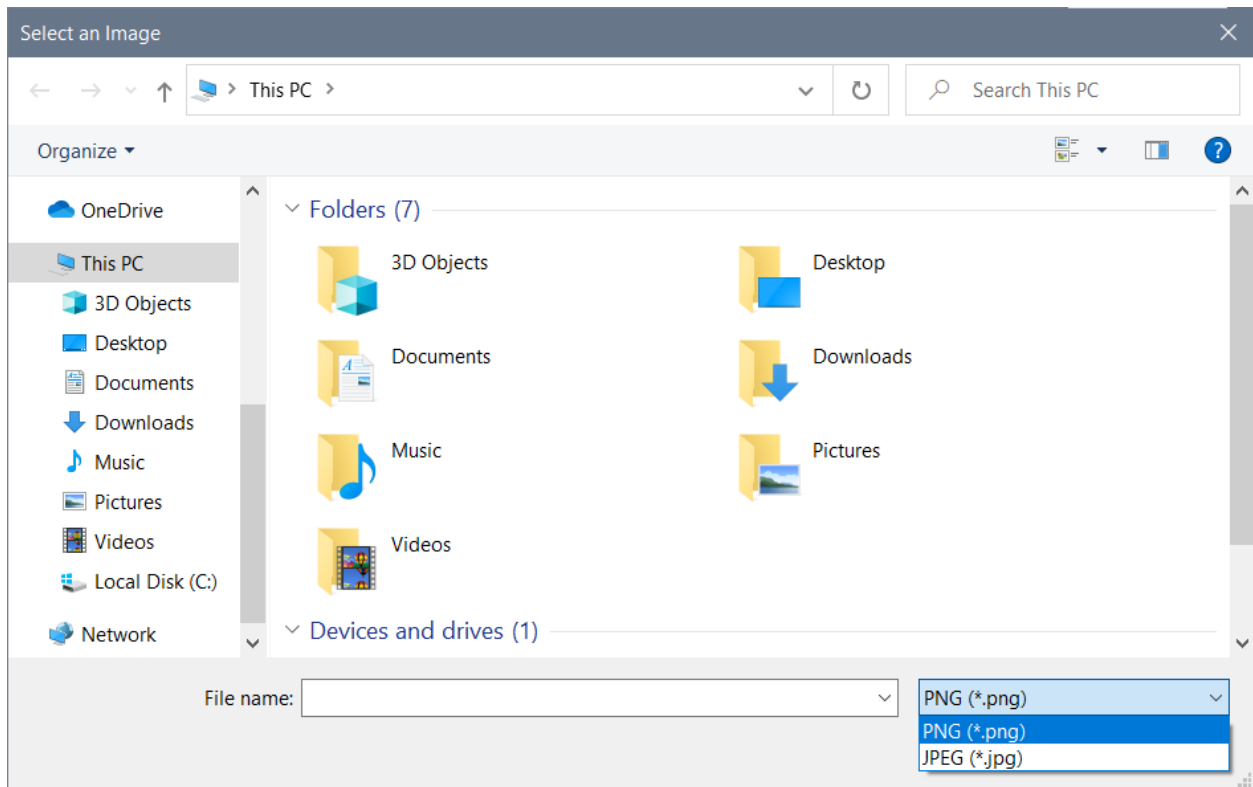
When you click on Add, this window will open, then you can choose any picture for the item you donate.

Official Donation

Home

Donate

Donate money

My donation

Achivments

About us

Logout

Donate Now!

Donate for   Select...

Visa

Money   Select...

Submit

When you click on Donate Money, a screen will appear in which you can donate money.

Ssn	First Name	Last Name	Donate For	Money	Type
3	laila	safiya	Palestinian Renaissance Associ...	0	Money
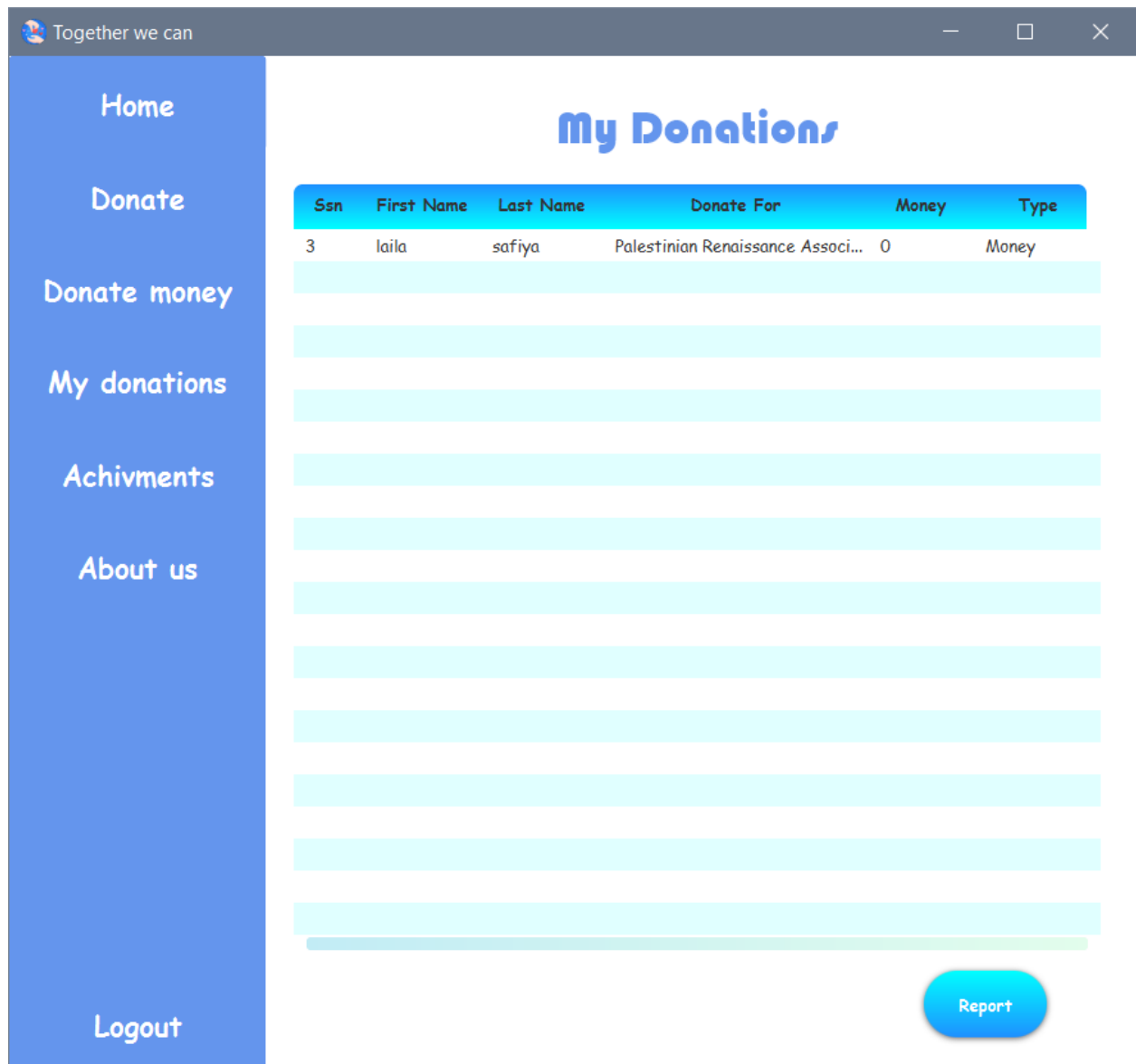
When user click on my donations, the user's donation list appears.

If user click on Report a Jasper report will creat.

Together we can

Home

Donate

Donate mony

My donation

Achivments

About us

Logout

Achivments

Achivmets
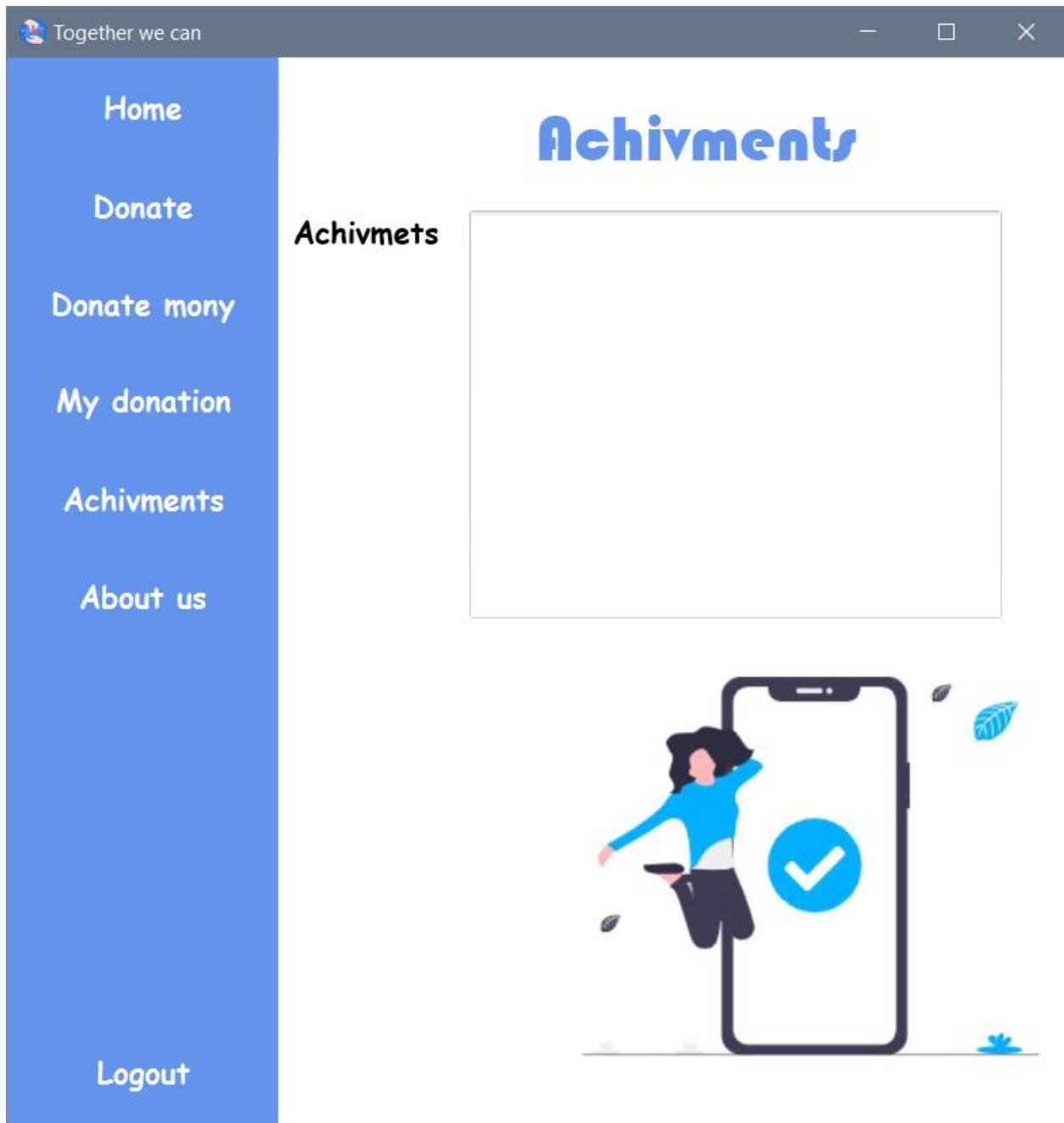
When user click on Achievements, the Achievements screen will appear.

If the user click on About us, this screen will appear.
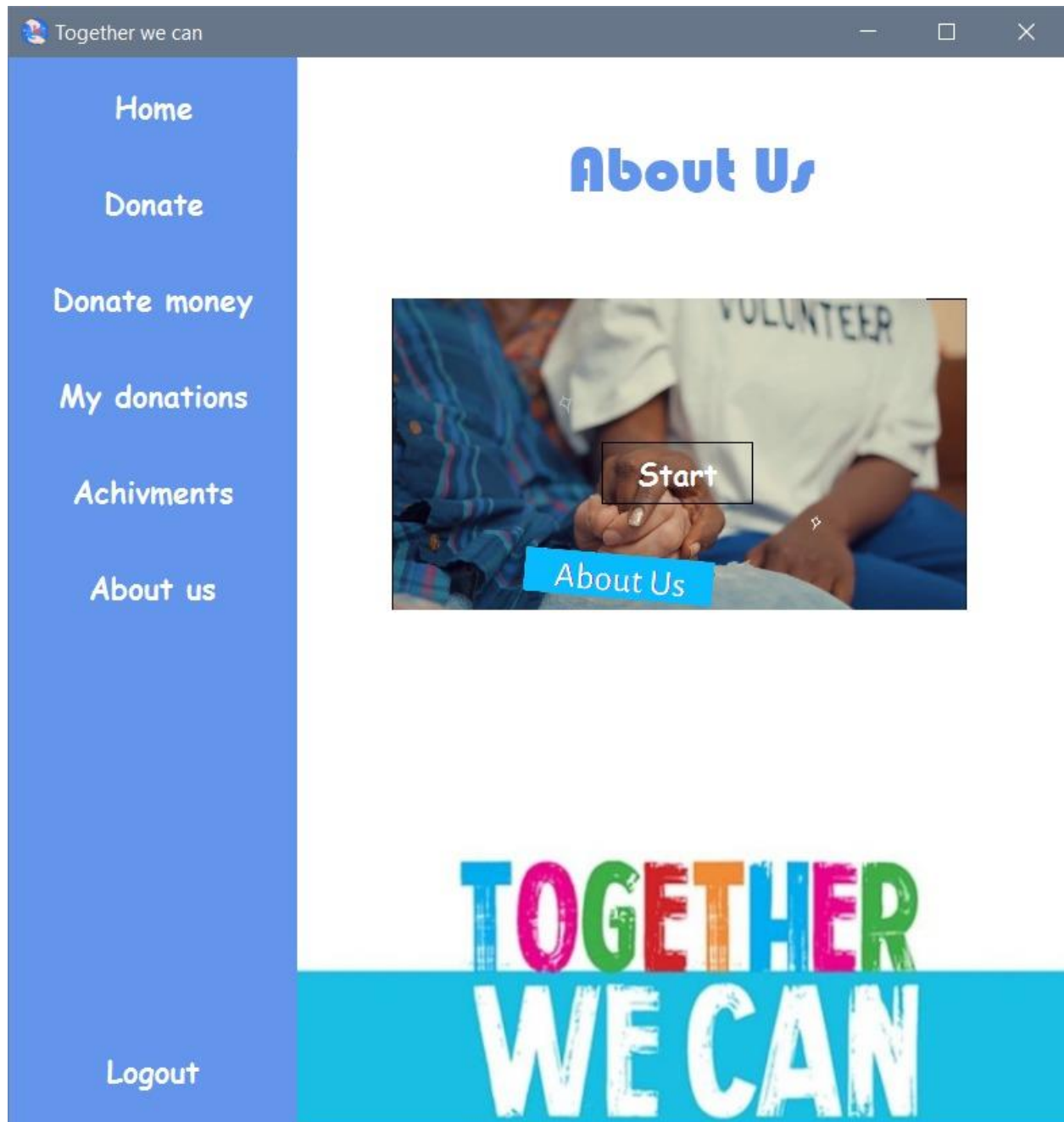
When user click on start then this window will open.

If the email for admin, this screen will appear:

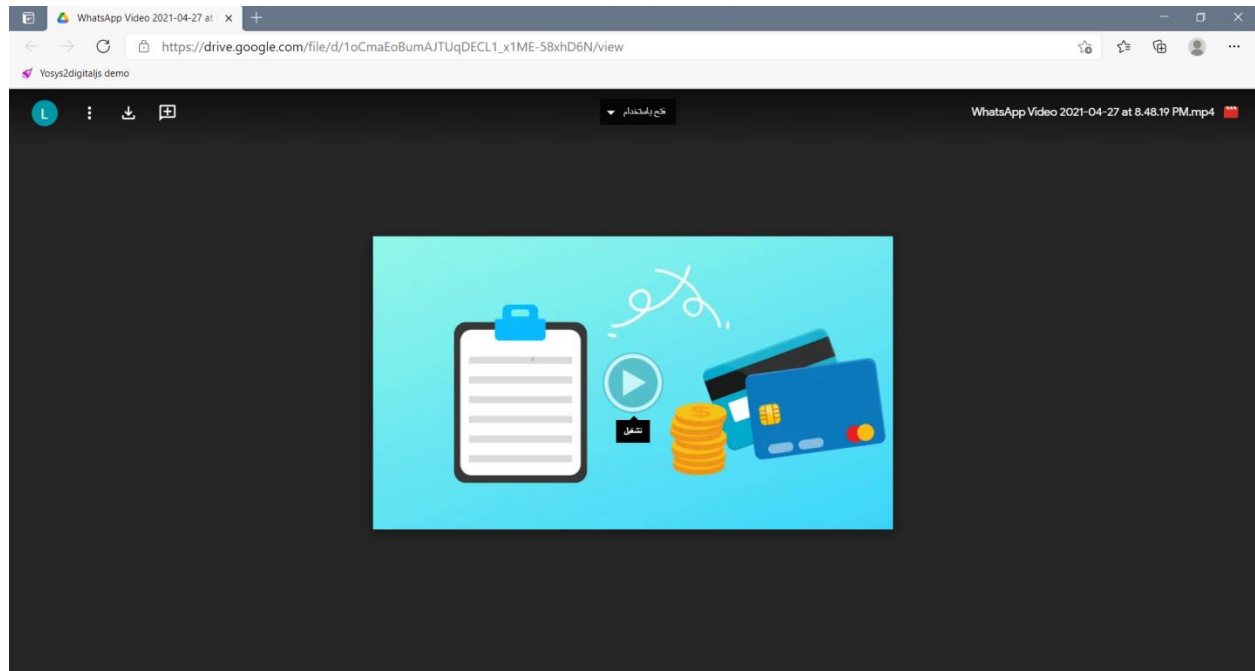Home

Donate

Donate money

My donations

Add Achivments

Achivments

About us

Logout

Together we can

"Alone we can do so little;
together we can do so much."

- Helen Keller
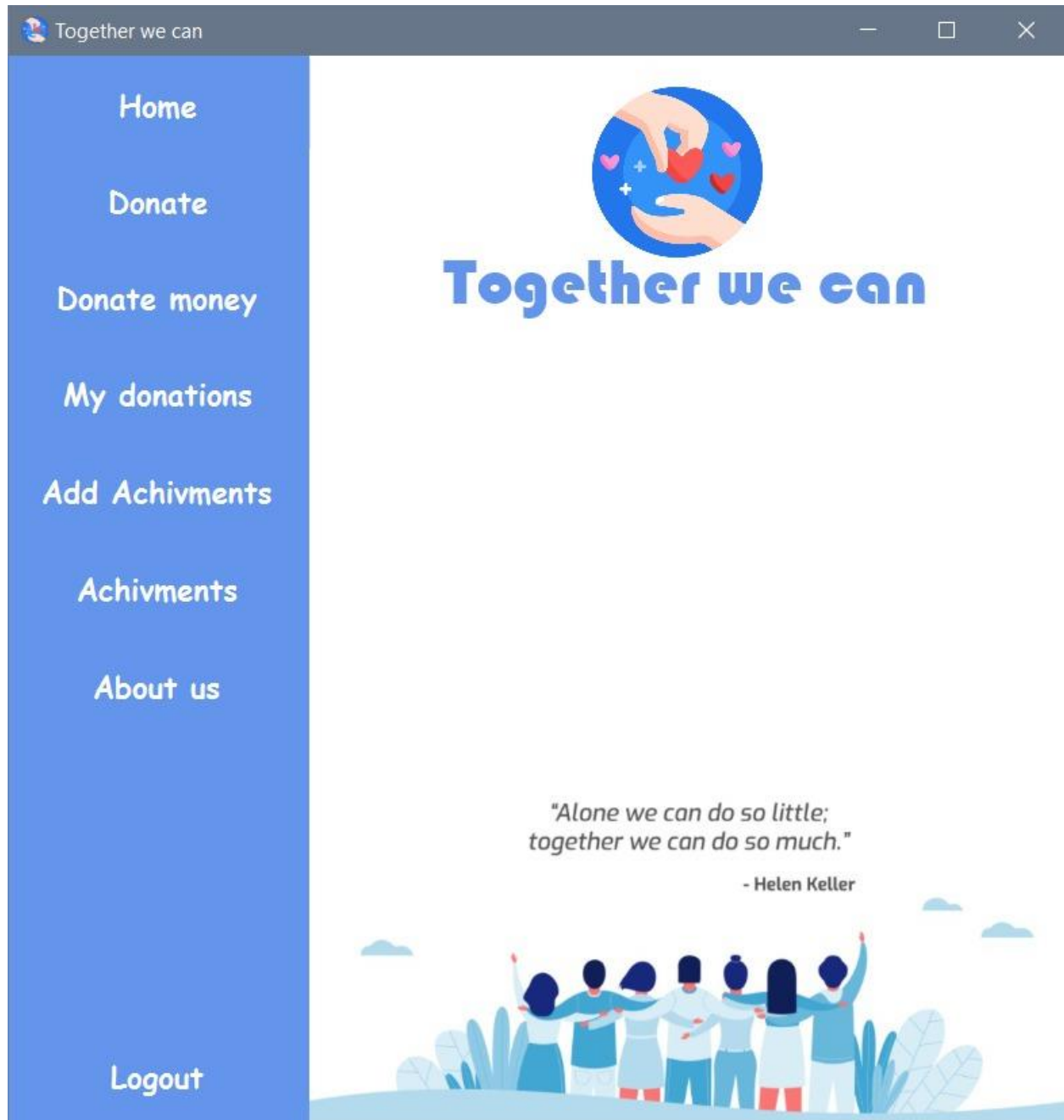
When admin click Donate, a screen will appear in which admin can donate anything you want.

When admin click on Donate Money, a screen will appear in which admin can donate money.

When the admin click on Add Achievements, then the admin can add a new achievements for the achievements list.
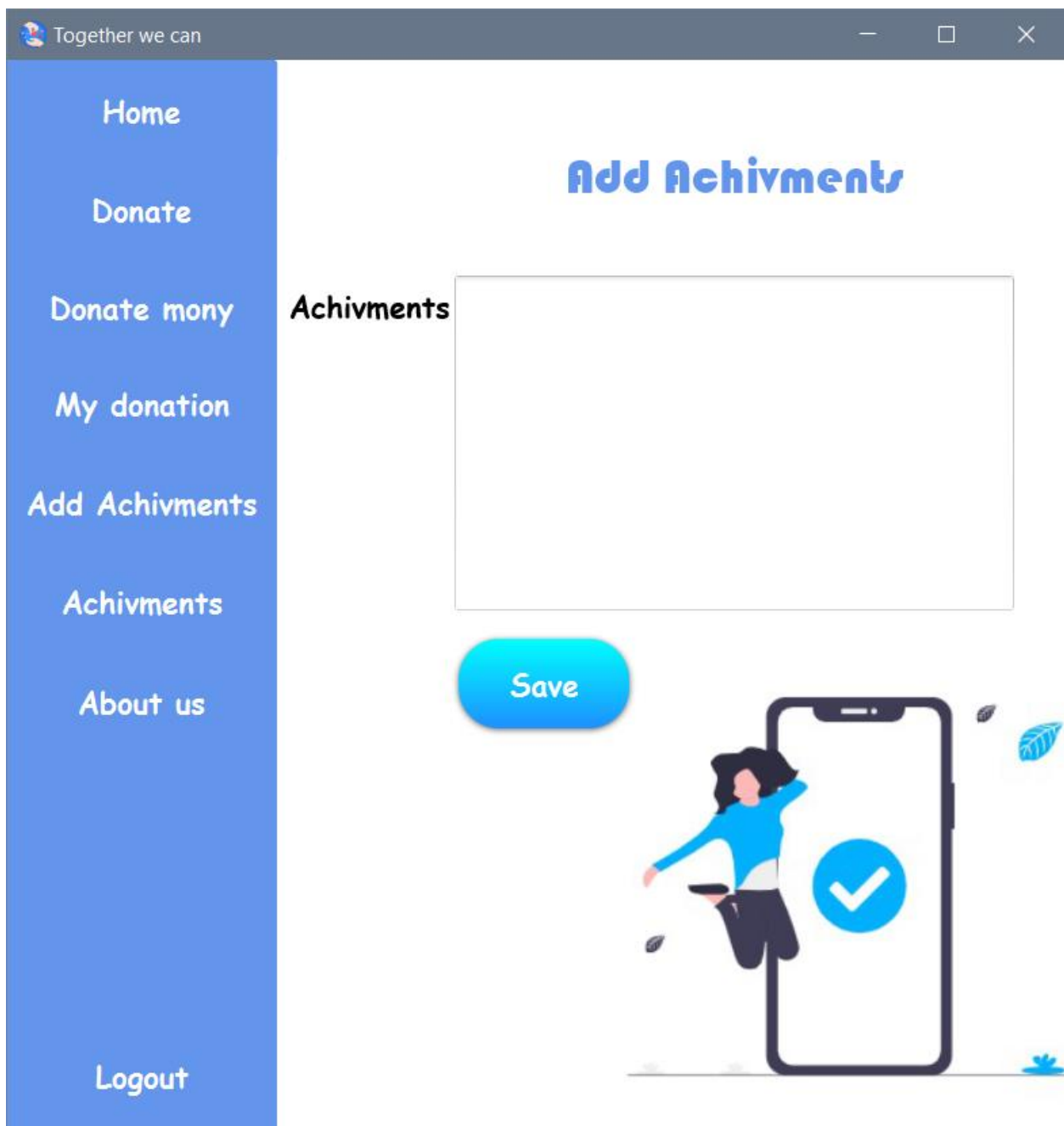
When admin click on Achievements, the Achievements screen will appear.
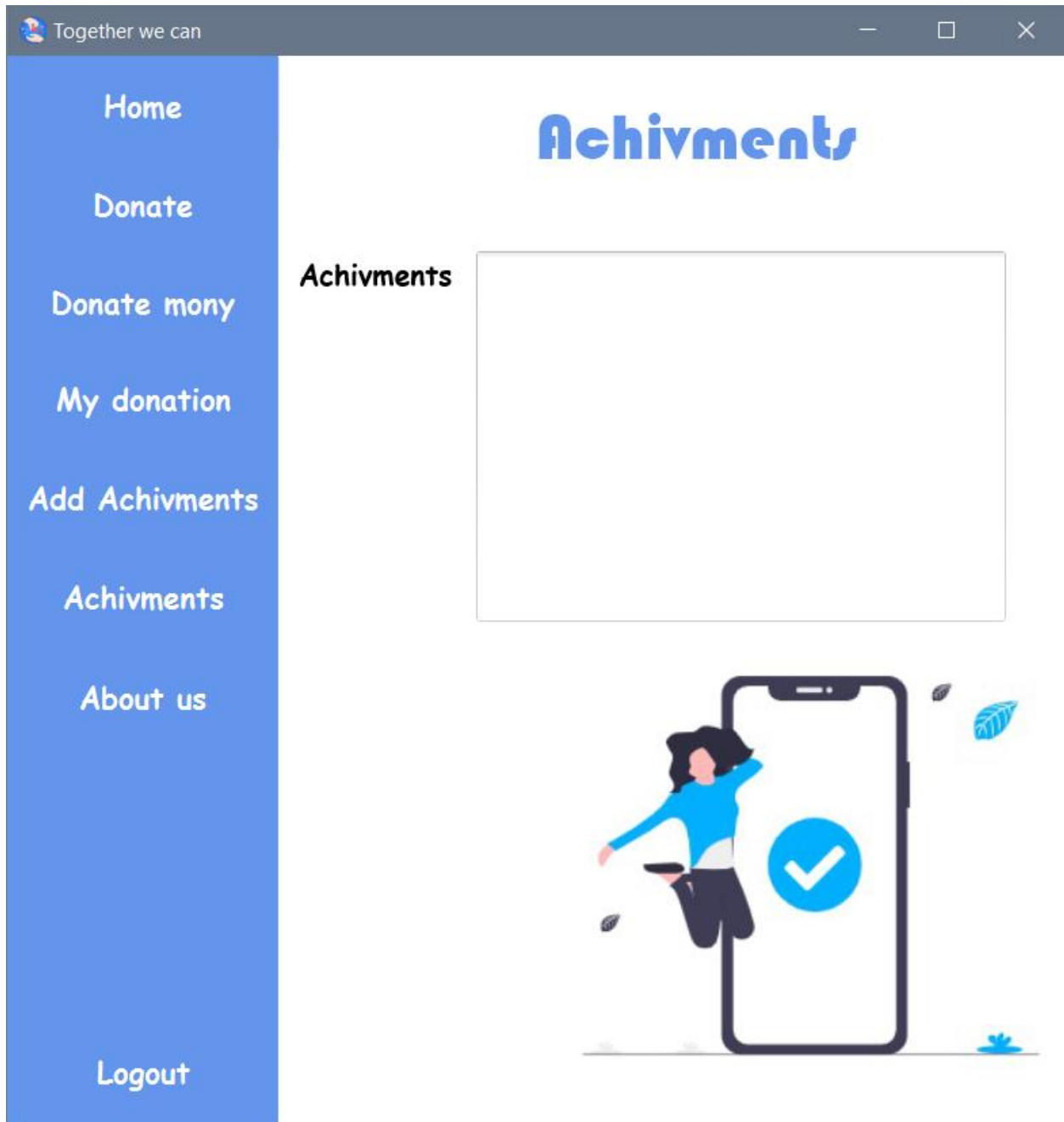
If the admin click on About us, this screen will appear.
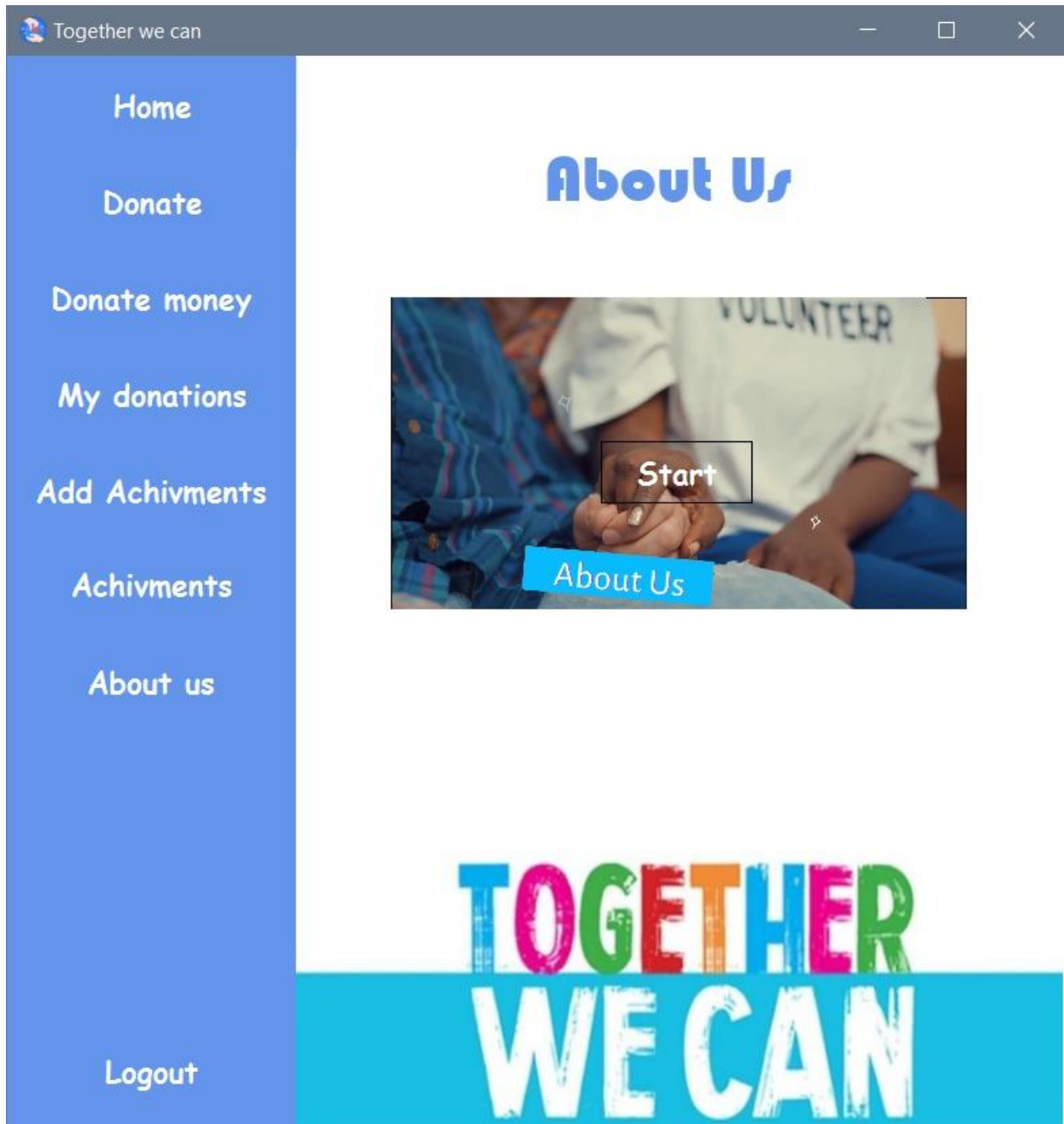
When admin click on start button, this window will open.

When click on logout, main page will appear.

SQL:


```
Ssn CHAR(4),
Email VARCHAR(40) not null,
Fname VARCHAR(20) not null,
Lname VARCHAR(20) not null,
Passwordd VARCHAR(18) not null,
Phone NUMBER(12) default 0,
ADMINUSER char(1),
Gender char(1) not null,
check (Gender in('M','F')),
CONSTRAINT Donerpk PRIMARY KEY(Ssn)
);
create table Donation(
DId NUMBER(4),
DonateFor VARCHAR(50),
Bank VARCHAR(50),
money NUMBER(6),
Typee CHAR(15),
Description VARCHAR(100),
Quantity NUMBER(3),
PHOTO BLOB,
forignmony NUMBER(1),
forignitem NUMBER(1),
DonSsn char(4),
CONSTRAINT donation_ID PRIMARY KEY(DId),
CONSTRAINT donationFK foreign key(DonSsn) REFERENCES Doner (Ssn) on delete CASCADE);
CREATE SEQUENCE donateseq;
CREATE OR REPLACE TRIGGER donate_on_insert
    BEFORE INSERT ON DONATION
    FOR EACH ROW
BEGIN
    SELECT donateseq.nextval
    INTO :new.DId
    FROM dual;
END;
```
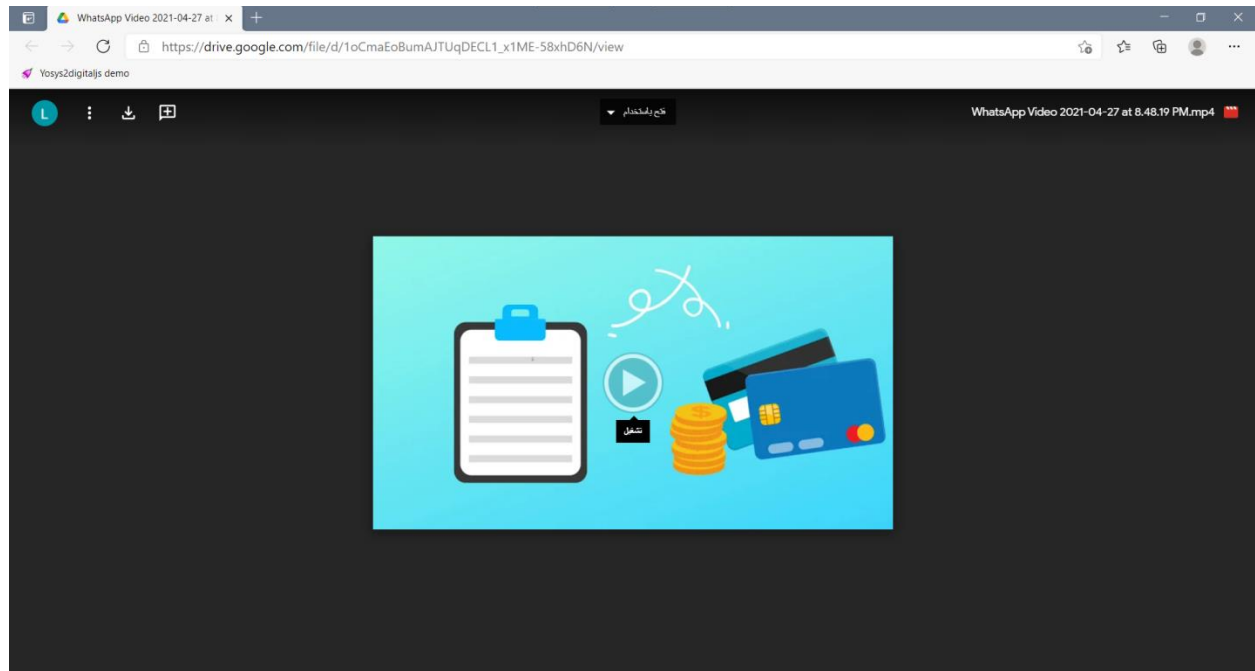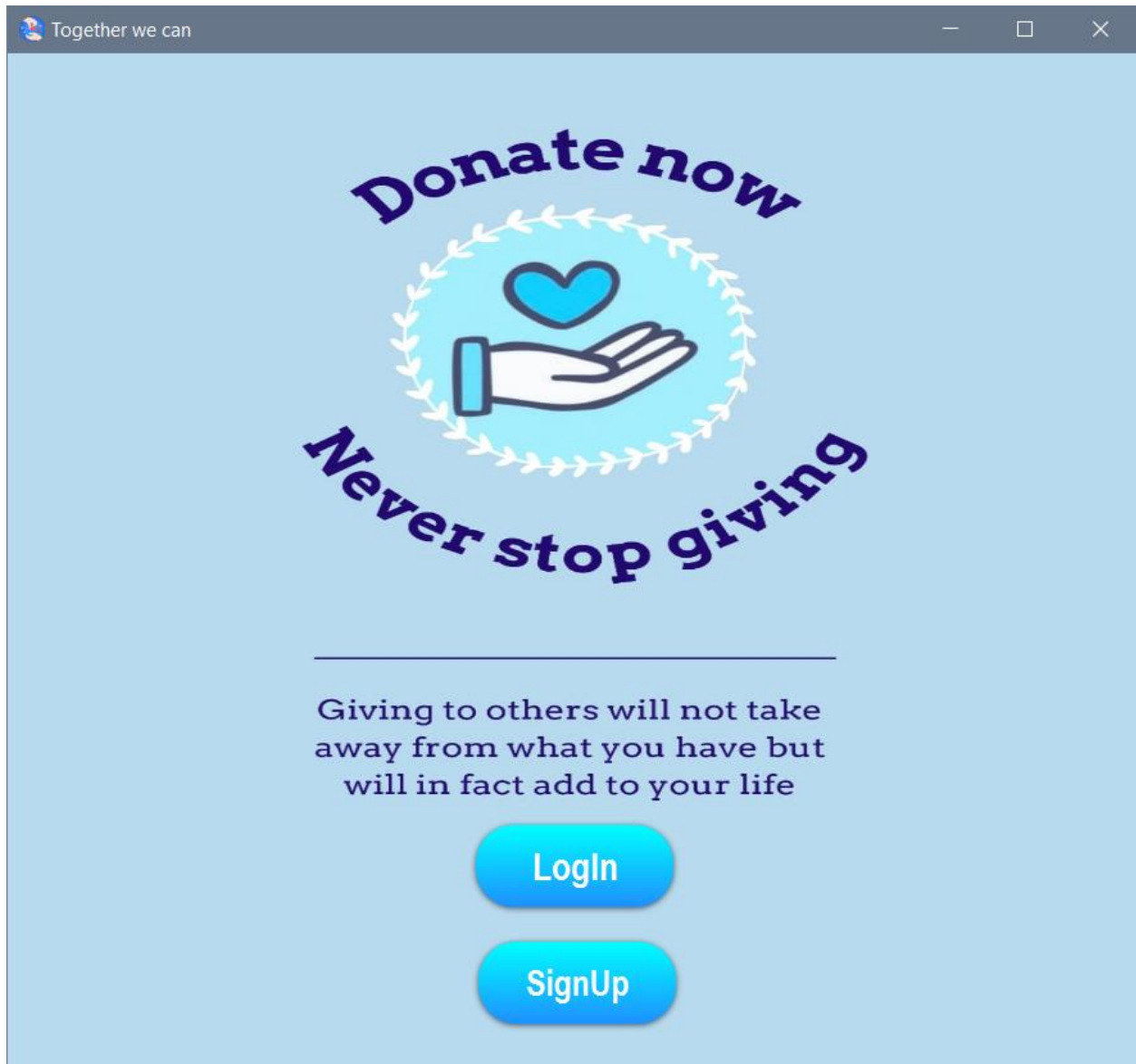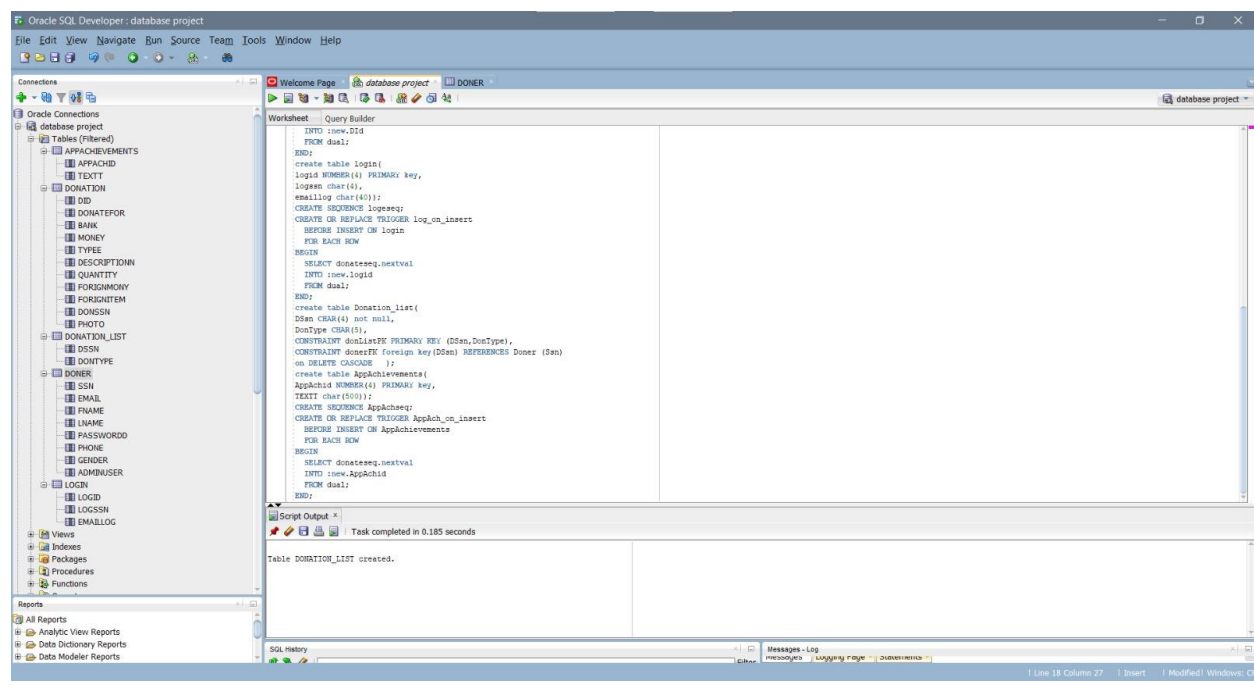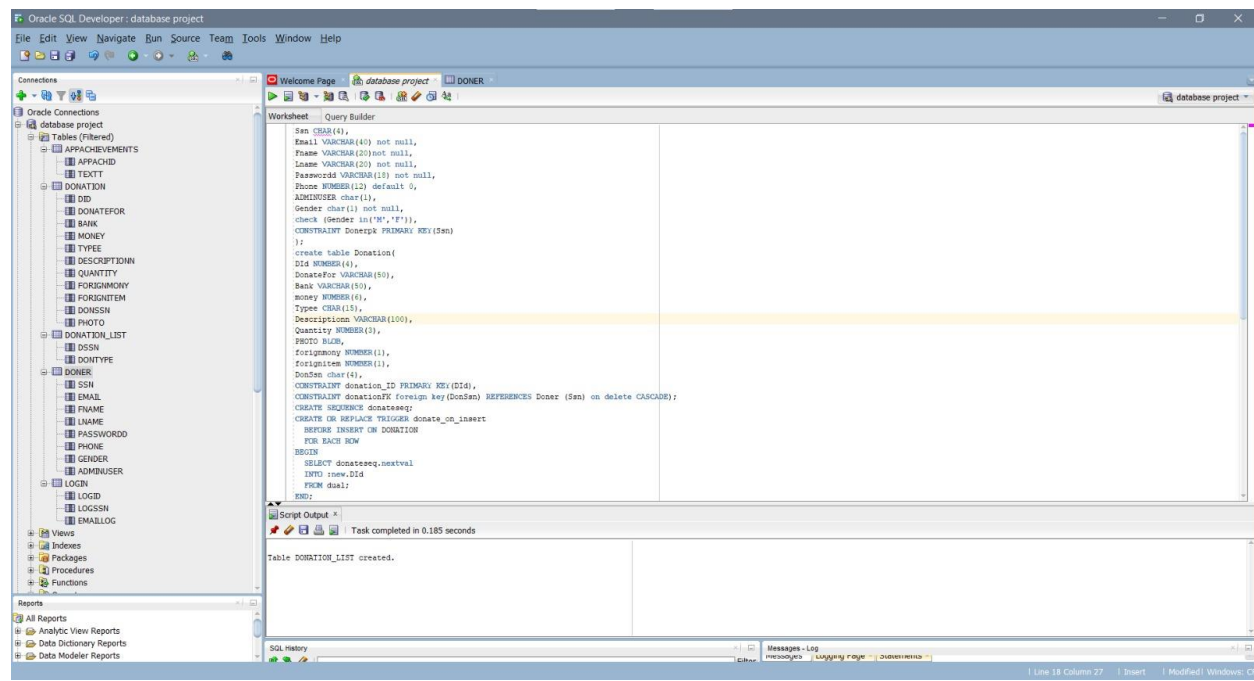
Script Output ×

Task completed in 0.185 seconds

Table DONATION_LIST created.


```
    INTO :new.DId
    FROM dual;
END;
create table login(
logid NUMBER(4) PRIMARY key,
logssn char(4),
emaillog char(40));
CREATE SEQUENCE logeseq;
CREATE OR REPLACE TRIGGER log_on_insert
    BEFORE INSERT ON login
    FOR EACH ROW
BEGIN
    SELECT donateseq.nextval
    INTO :new.logid
    FROM dual;
END;
create table Donation_list(
DSsn CHAR(4) not null,
DonType CHAR(5),
CONSTRAINT donListFK PRIMARY KEY (DSsn,DonType),
CONSTRAINT donerFK foreign key(DSsn) REFERENCES Doner (Ssn)
on DELETE CASCADE   );
create table AppAchievements(
AppAchid NUMBER(4) PRIMARY key,
TEXTT char(500));
CREATE SEQUENCE AppAchseq;
CREATE OR REPLACE TRIGGER AppAch_on_insert
    BEFORE INSERT ON AppAchievements
    FOR EACH ROW
BEGIN
    SELECT donateseq.nextval
    INTO :new.AppAchid
    FROM dual;
END;
```

Script Output ×

Task completed in 0.185 seconds

Table DONATION_LIST created.

Jasper report:

May 09, 2021
15:52

Report for donations

Palestine House Association

NUMBER_OF_ITEM_DONATI 0
SUM_OF_MONEY_DONAT 999

Palestinian Renaissance Association

NUMBER_OF_ITEM_DONATI 600
SUM_OF_MONEY_DONAT 0

Conclusion:

This application helps its users in the process of donating to the charities that they wish to donate to it and also makes it easier for supervisors to follow up all donation operations in addition to the possibility of donation.

References:

- https://www.w3schools.com/

- https://docs.docker.com/

- https://stackoverflow.com/