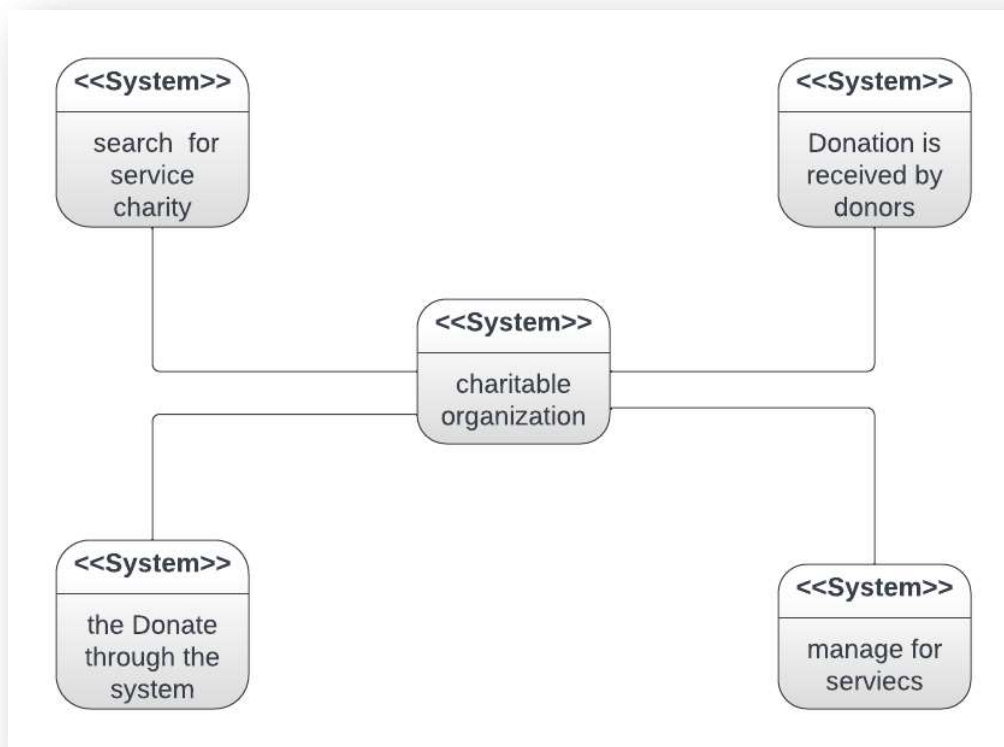# Introduction:

Our project for charity organization, provide system of social services forneedy and low-income people.

Definition: A charity management system is a software solution designed for nonprofit organizations. It manages charitable donations as well as the donorbase.

Purpose: This system aims to facilitate the process of collecting donationsfrom users.

Function: The user can share his donations with charity through the system, where the user has an account designated for him in charity, in which he puts his money directly or indirectly through Visa credit machines or fawry pay. Admin of charity determines the direction of these donations according to the needs. The system of charity is divided into voluntary work by hand, care in the orphanage, helping the poor, building roofs for homes, and distributing food bags…etc, so the user participates in allthese systems.

Context Diagram:

User requirements:

The system can provide several requirements for the user as follows..

A. Admin and user (Donator) can create an account and log in it to browsethe services of the system.

B. Admin and user can view the information about the charity to be sure ofthe correctness of his choice of it.

C. Admin and user can update the information about his account.

D. Admin and user can search for the services of the charitable associationto choose the service that fits him.

E. Admin must be able to fully manage donations through the system.

F. Admin uses the system to deliver donations to the needy.

G. Donator can make donations according to each section of the services.

Functional requirements:

1. **Administrato**r

   - **Login**

   Description: Login function allows registered admins to login to thesystem to access all of the features that their account gives them access to.
   Inputs: username and password
   Source: The username and password taken from admin
   Outputs: Show message with success login or error message
   Pre-condition: Profile created.
   Post-condition: If admin type in his username and password and click submit the admin credentials are validated and if correct they are logged in. If they are incorrect they get an error message. If the user has forgotten their password they click "Forgot Password?"

   - **View informatio**n
   Description: The admin can view information about charity
   Inputs: There are no inputs
   Source: --
   Outputs: --
   Pre-condition: the admin must be registered
   Post-condition: Viewing all information about charity

   - **Update information**
   Description: The admin can update his information
   Inputs: password and username
   Source: The admin will entered the username and password
   Outputs: admin get message "the information updated"
   Pre-condition: the admin must log in
   Post-condition: the information will be updated

   - **Search for service**
   Description: The admin can search for the services of charity to choose the fit service
   Inputs: Service name
   Source: The admin will enter the name of service
   Outputs: Search result
   Pre-condition: the admin must be registered.
   Post-condition: Viewing information about service

- **Create an account**

  Description: the admin can create an account and log in it tobrowse the services of the system

  Inputs: name, email, password and phone

  Source: the admin will entered his name ,password , email andphone

  Outputs: system will show message with success or fail registration

  Pre-condition: --

  Post-condition: account created

- **Deliver donations**

  Description: the admin can deliver donations to the needy

  Inputs: the address of the needy

  Source: the admin take address from the needy

  Outputs: --

  Pre-condition: the admin must log in

  Post-condition: --

- **Manage donations**

  Description: the admin can accept the donation

  Inputs: donator username

  Source: the admin will take username from donator

  Outputs: --

  Pre-condition: the admin must log in

  Post-condition: --

- **Display needy profile**

  Description: the admin can display needy profile and edit and delete it

  Inputs: needy username

  Source: the admin will take username from needy

  Outputs: -- display needy information

  Pre-condition: the admin must log in

  Post-condition:

2. Donator

- **Log in system**
- **Create an account**
- **Display Charity Services**
- **Cancel Payment**
- **Search for serviecs**
- **Update information**
- **Search for services**
- **Give donation**

   Description: donators can donate to charity by credit card or fawry

   Inputs: credit card information

   Source: the donator will entered the credit card information pay

   Outputs: show message with success or fail operation

   Pre-condition: the donator must log in

   Post-condition: --

Non Functional requirements:

No.	Description
1. Performance	- **Response time should be less than 5 seconds.** - **The system should be responsive.** - **The system should maintain stable response over low powered network.**
2. Availability	- **The system should be available online 24/7.** - **The system should be available on every web accessing device.**
3. Security	- **The system should use secure protocol to encrypt private data eg. Passwords.** - **The system should manage transactions securely.** - **The system must handle safe login and logout through session.** - **The database should be secured from SQL injection to prevent leak or loss of information.**

4. Reliability	- The system should perform data backups each day. - The system should have alternative access server incase of failure. - This program should be reliable and provide catching of exceptions so that unintended results do not occur such as system crashes, or data validation failures.
5. Scalability	- The system should support feature extensions easily without altering current system.
6. Usability	- The system should have user-friendly interface.
6. Testable	- Charity staff shall be able to use all the system functions after four hours of training. - This training, the average number of errors made by experienced users shall not exceed two per hour of system use.
7. Confirmation letter to donor	-The software can provide automation tools so that guests are automatically sent confirmation emails, or an email or SMS on the day of the user who donated to our charitable organization.
8. Technical Support	-Finally, your chosen charity system must include technical support functions. After all, when things go wrong with your software or when you encounter system failures, it has the potential to disrupt your entire business, meaning solutions need to be found as quickly as possible.

Update info

Login

<<Include>>

Donor Profile

manage donations

Admin

create an account

User

Display Charity Services

Add Charity Services

Select Charity services

<<Extend>>

Search Charity Services

Manage Charity Services

<<Extend>>

Display Needy profile

<<Extend>>

Delete Charity Services

Give donation

<<Extend>>

Check Credit Card

<<Extend>>

<<Extend>>

Add Needy

Cancel Payment

edit needy profile

delet needy profile

Fawry System

User **View bage** **Control** **Services** **donator information** **Fawry**

Alt
[service exist]

search for services()

search for services(Name)

getService(Name)

return Service

Service

[Else]

Service not exist

Alternative
[Donate by CreditCard]

creditcard()

Donate by CreditCard

checkcreditcard()

Done

[Donate by fawry]

fawry()

Donate by fawry()