



Qassim university
College of computer
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Project report
For
Software engineering

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Introduction

We try to design an application to facilitate the donation process to the poor and also facilitate the work of charities in the collection of books, clothing and food

Application Idea:

The application gathers charities in one place, and classified charities by regions and cities, and once the donor makes a donation request comes notice to the charity, then one of charity drivers will communicate with the donor to receive clothes, books or food.

Stakeholders :

1. Donor
2. Charity staff
3. Administrator

functional requirement :

1. the donor shall select one from category menu
2. after selection, donor shall add some information : name ,phone,city, location and quantity .
3. donor shall be able to select date and time for delivery
4. donor shall be able to upload photo for pieces that will be donate
5. the system shall notify donor before delivery time (1 hour before)
6. the system shall send donation confirmation message to donor phone
7. the system shall send donation information for deliver

non functional requirement :

1. In any working day, the total down time should not exceed 5 minutes.
2. The donation confirmation time after completing the form must not exceed one minute
3. The system should be secure.
4. The system should be available all the time 24/7.
5. The system should be reliable

structured specification :

function : select city for delivery

description : this use case describes if city chosen by donor is within the scope application

input :

city where donor lives

output :

city within scope of application

pre-condition : none

action :

1. system display a list of city
2. donor select from list
3. if city not in list donor select etc
4. system will display message (city not in application scope)

post-condition : none

side effect : none

function : select food from category menu

description : this use case describes condition for donating food

input :

donor information

output :

complete donation

pre-condition : none

action :

1. system request donor information
2. donor add all information requested by system
3. if donor choose production date other than date of current date
4. system will reject the request
5. system display message (food must be fresh)
6. delivery date must be in current date by default

post-condition : none

side effect : none

function : select clothes from category menu
description : this use case describes condition for donating clothes

input :

donor information

output :

complete donation

pre-condition : none

action :

1. system request donor information
2. donor add all information requested by system
3. if donor select under 5 quantity
4. system will reject the request
5. system display message (quantity should be 5 or more)

post-condition : none

side effect : none

function : select book from category menu
description : this use case describes condition for donating book

input :

donor information

output :

complete donation

pre-condition : none

action :

1. system request donor information
2. donor add all information requested by system
3. if donor select under 8 quantity
4. system will reject the request
5. system display message (quantity should be 8 or more)

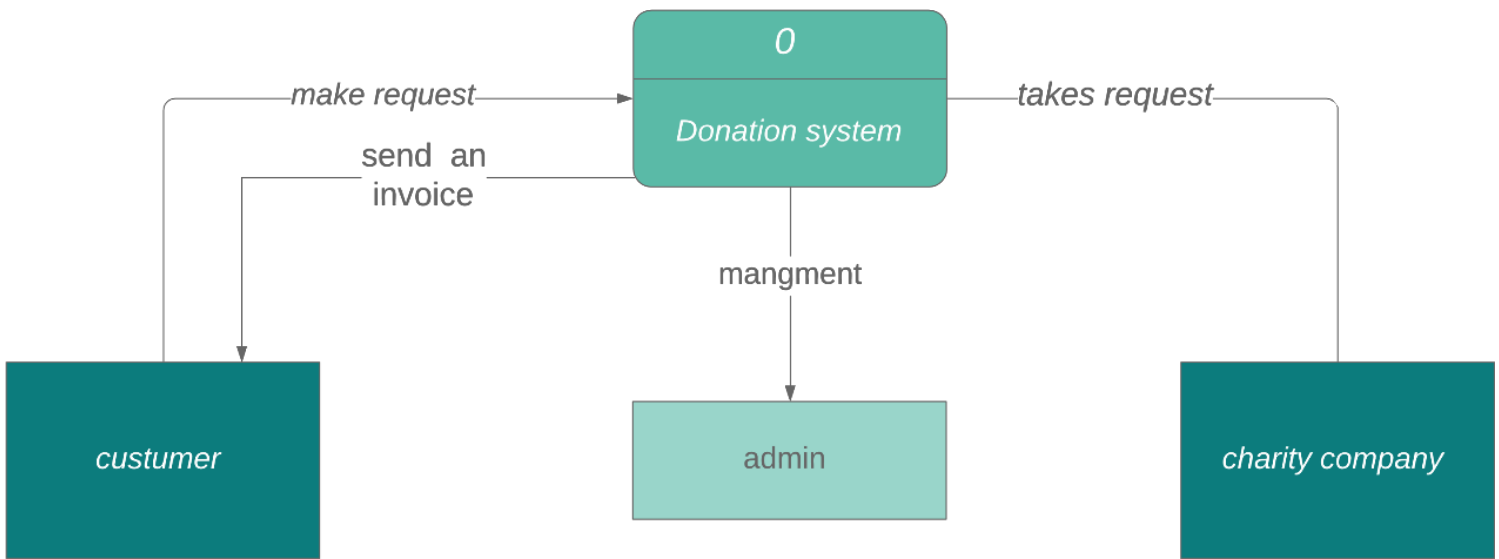
post-condition : none

side effect : none

Data flow diagram

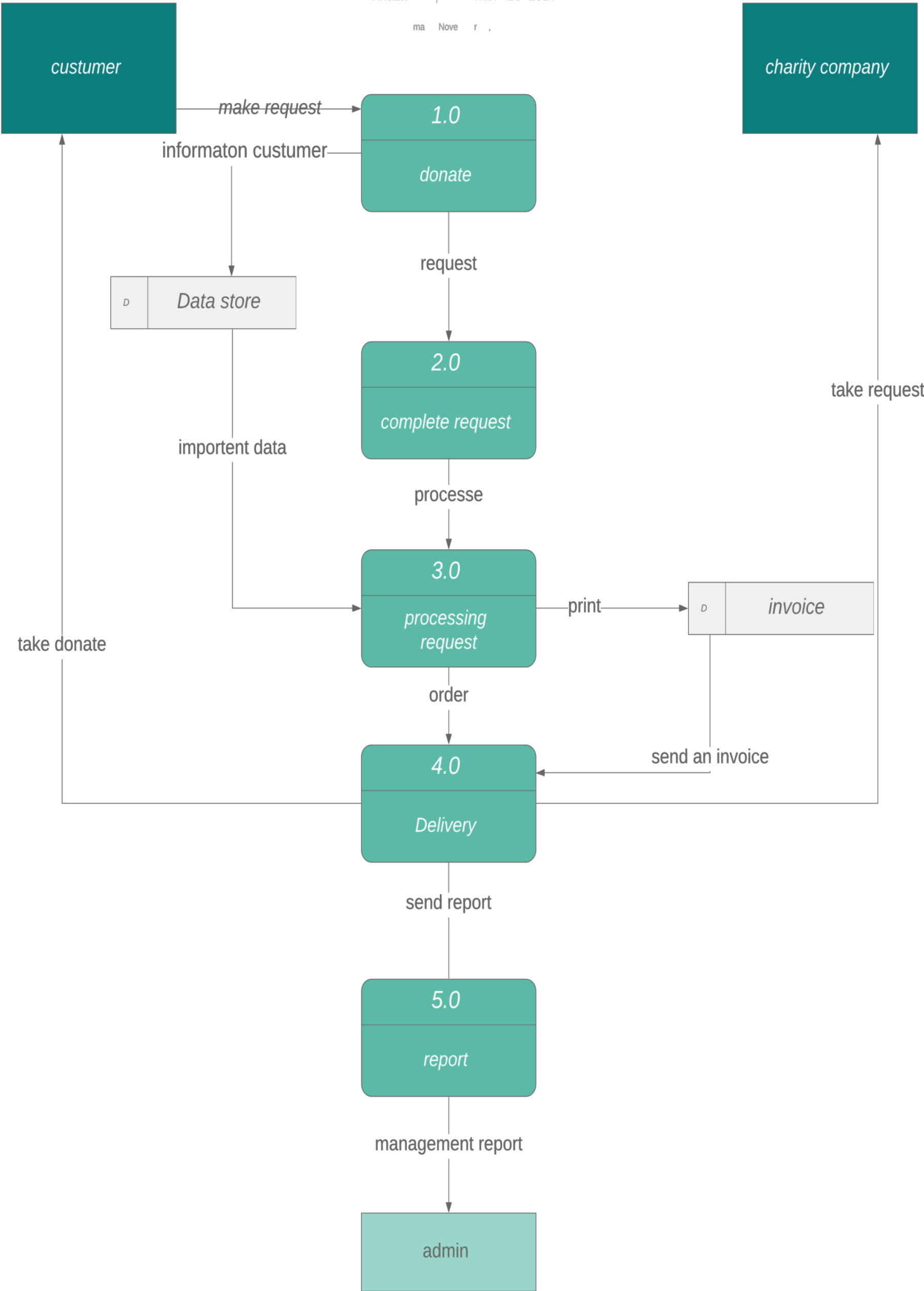
Context Diagram

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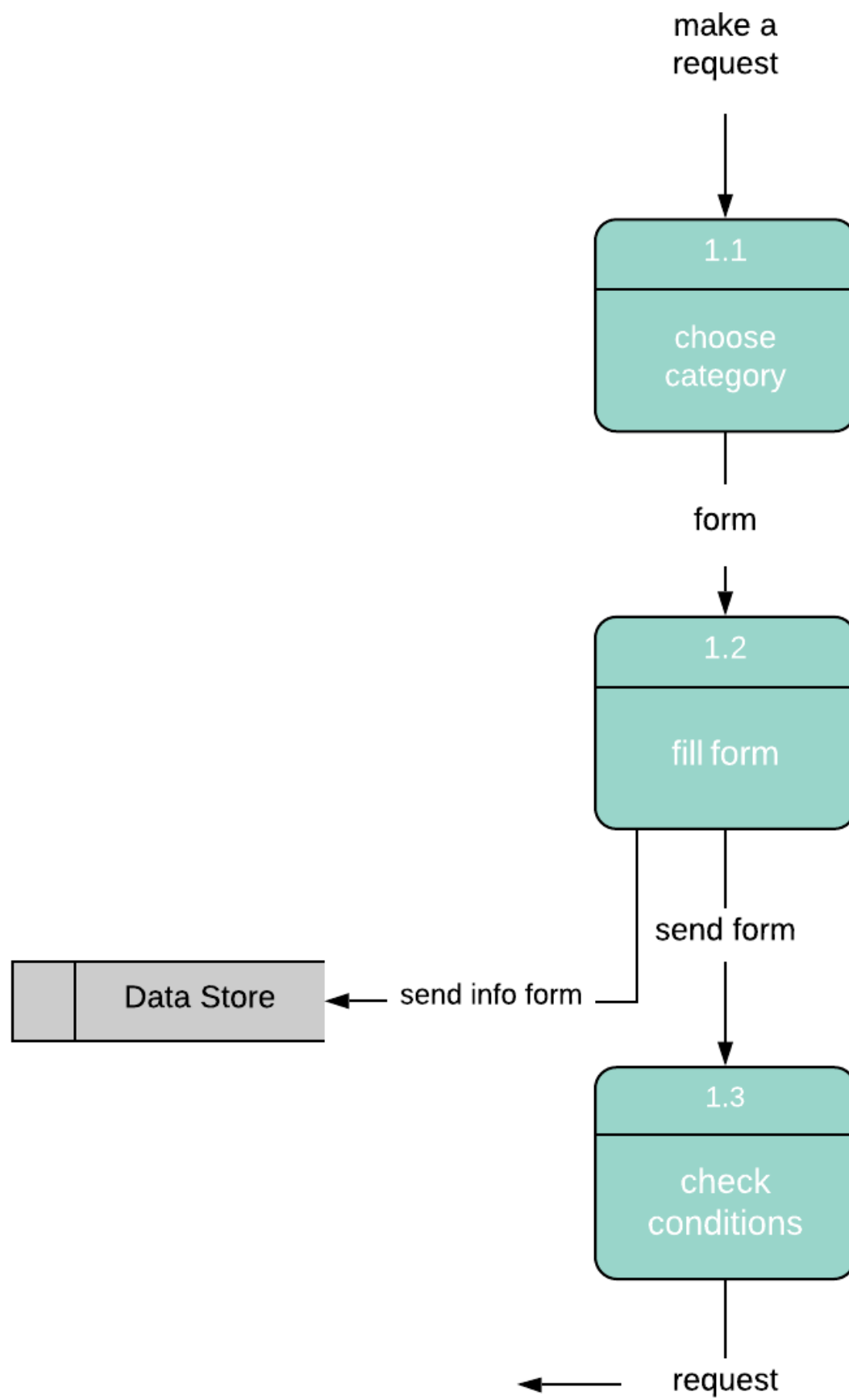


Data Flow Diagram (level 0)

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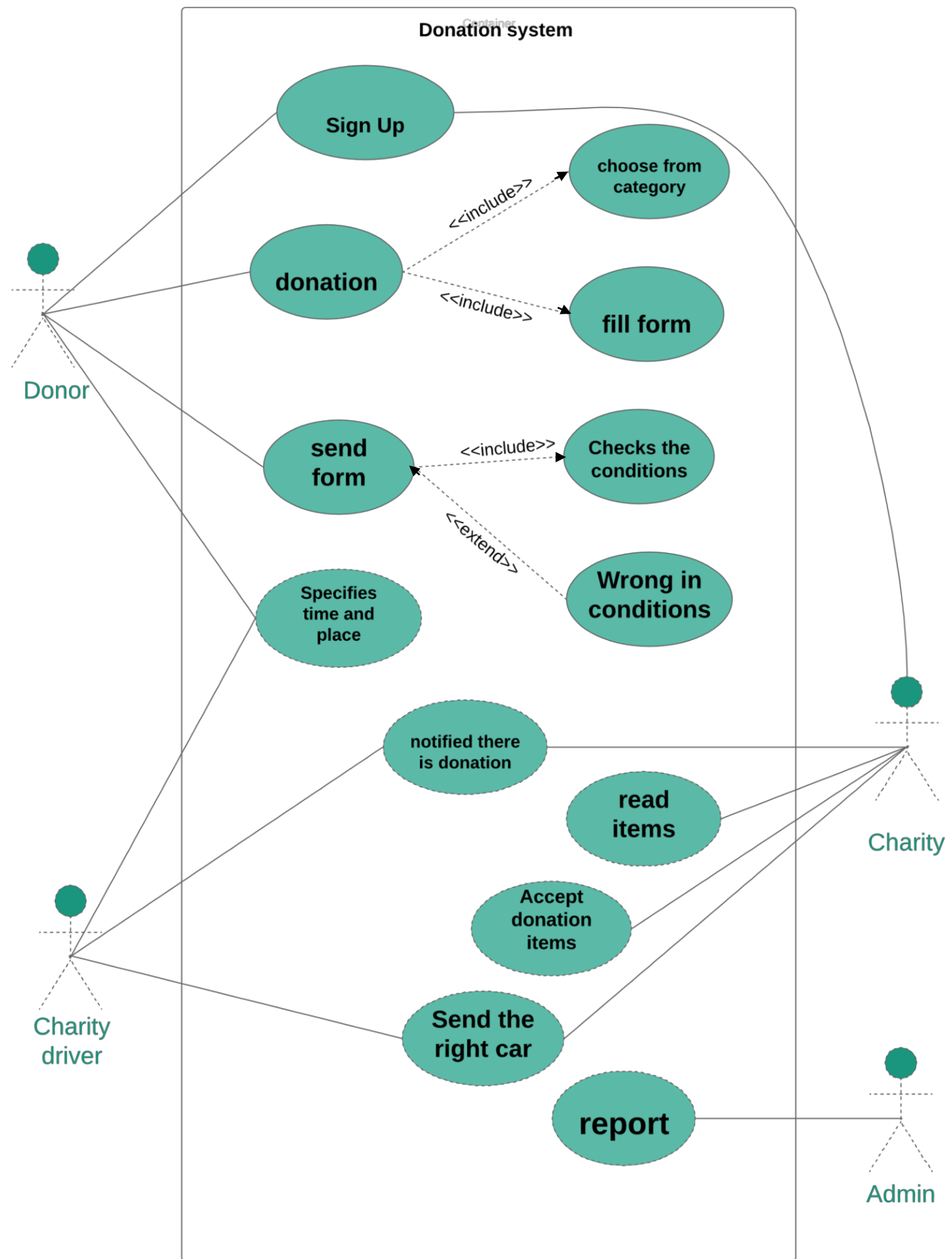


Data flow diagram (level 1)

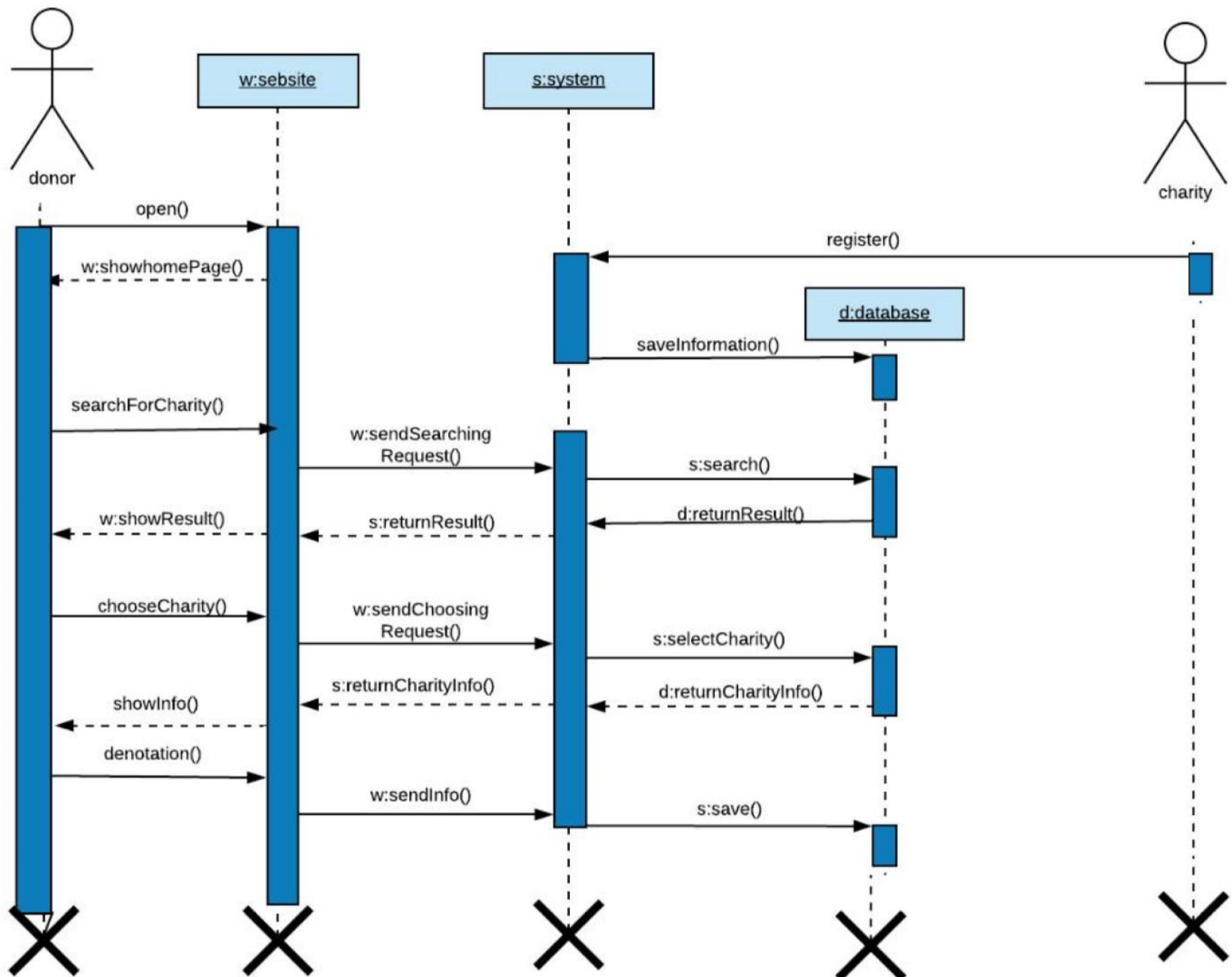
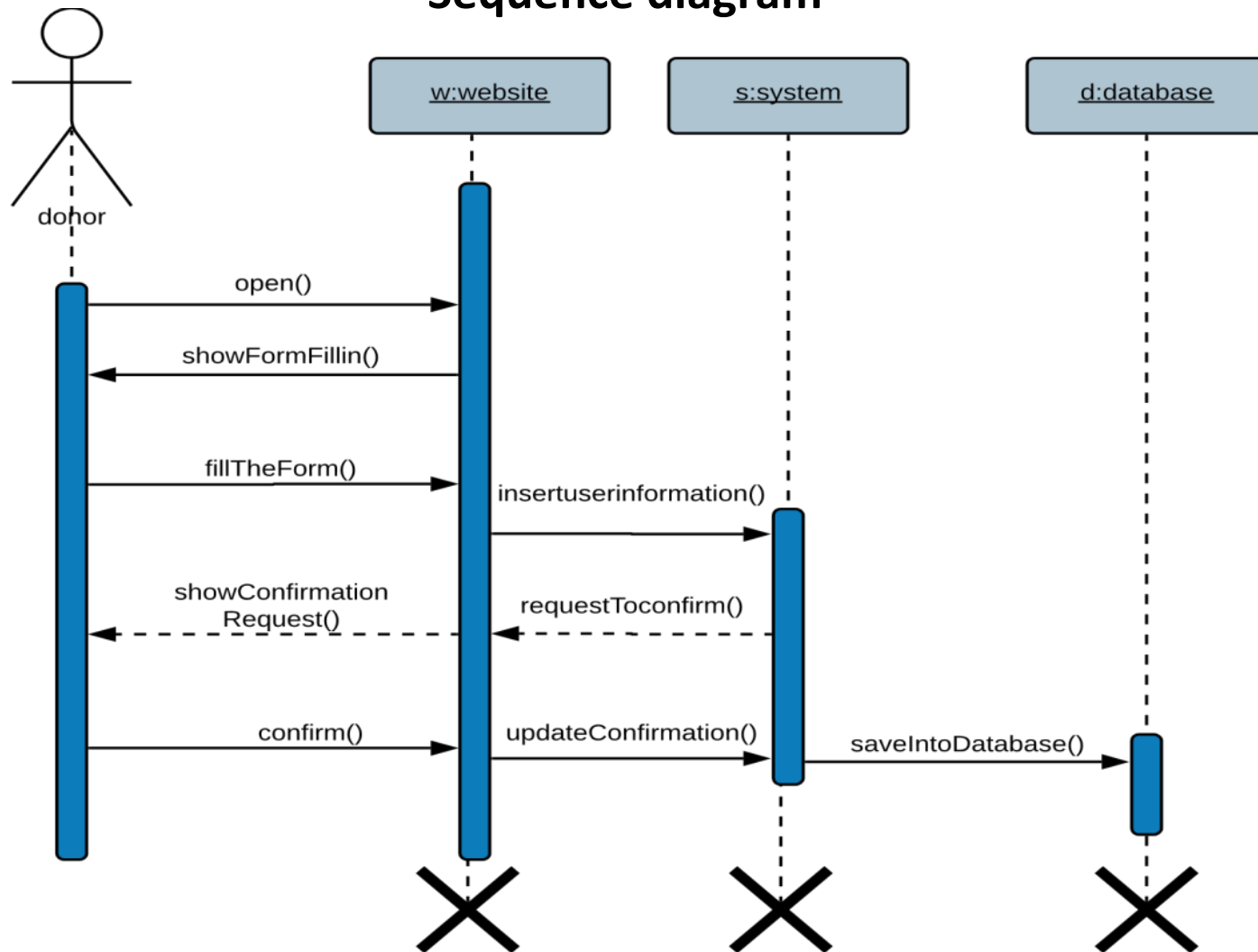


Use Case Diagram

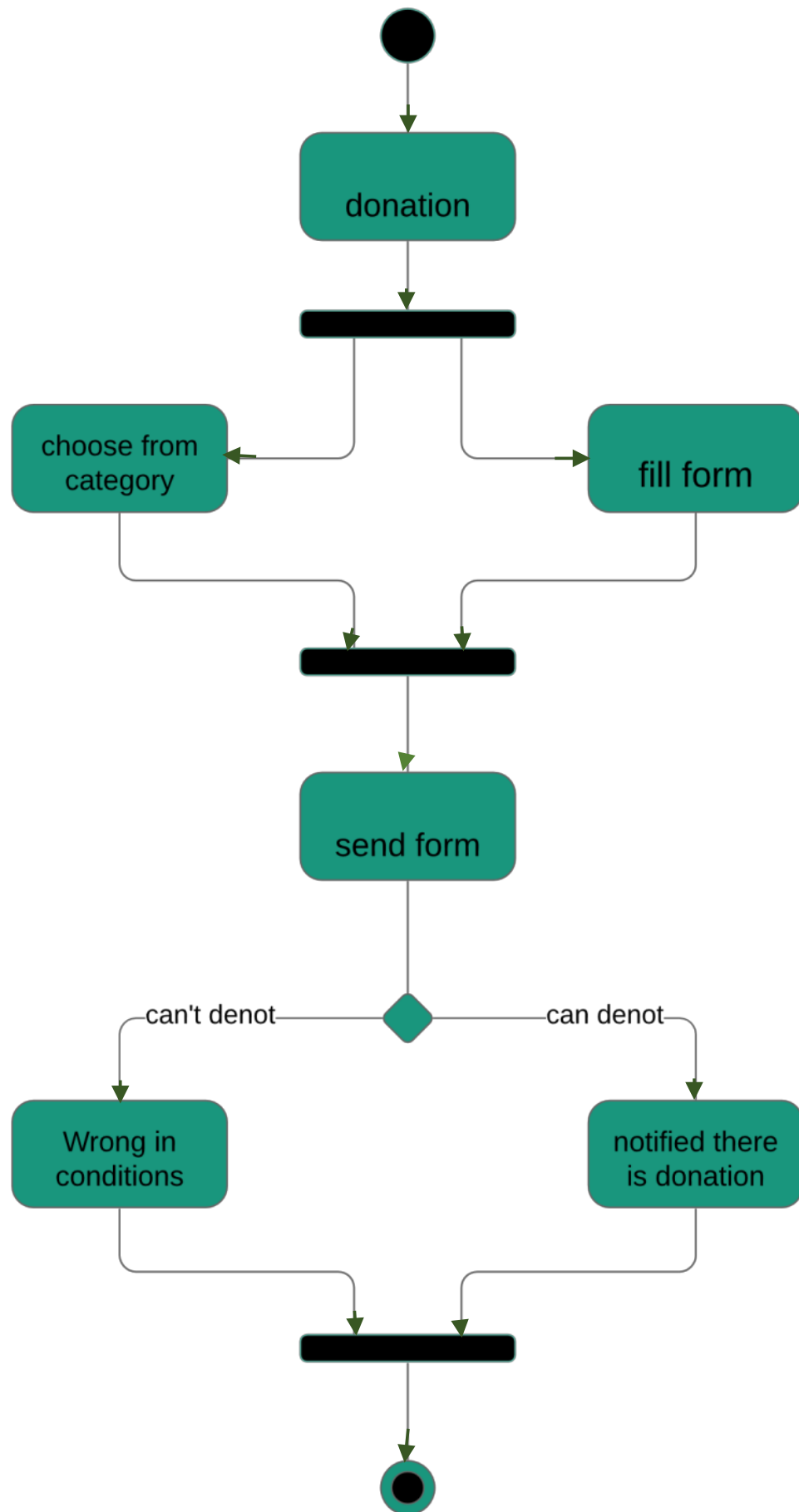
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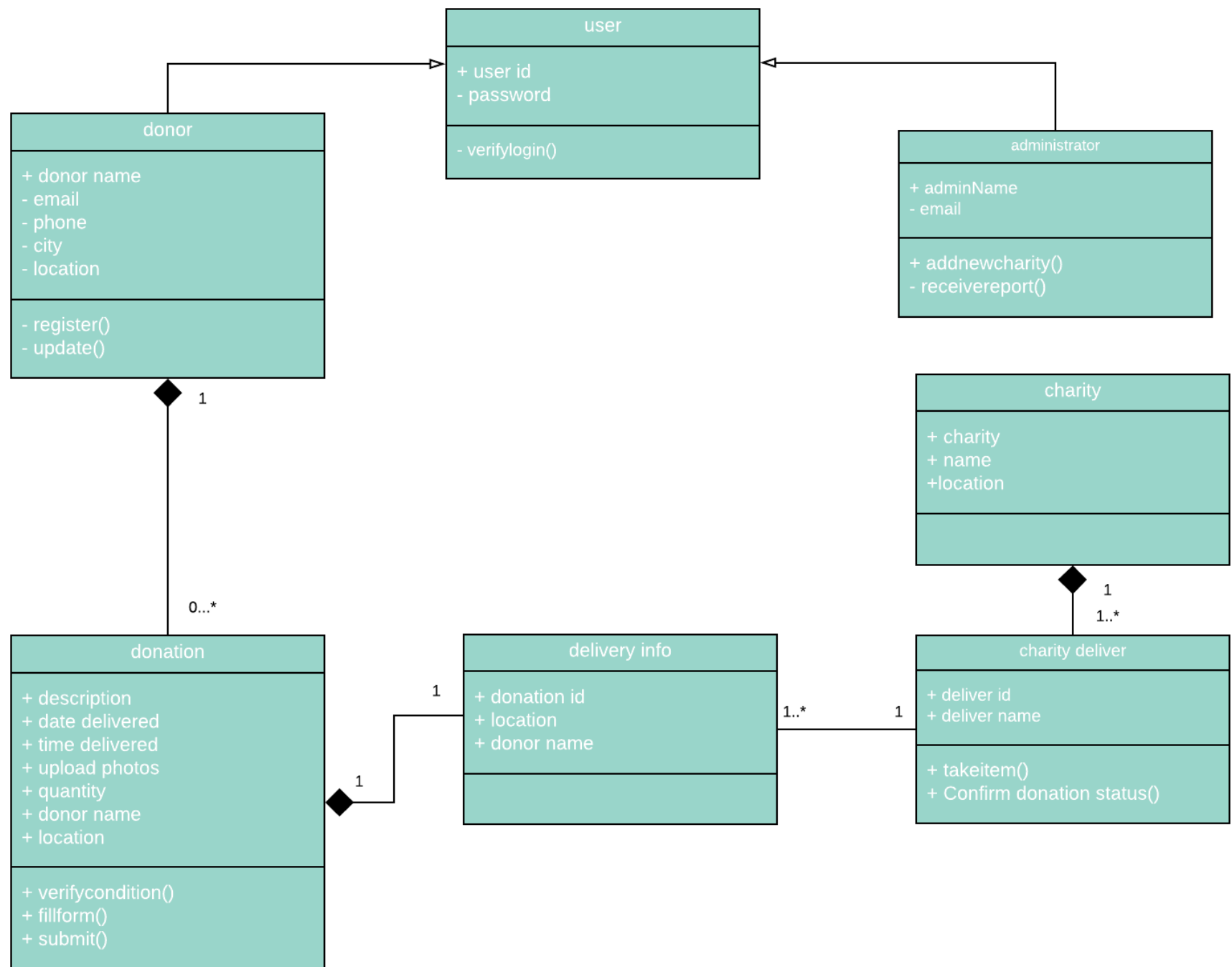
Sequence diagram



Activity diagram



Class diagram



Architectural Diagram

We choose client-server pattern because it is dependent on sharing services and information between unlimited customers at the same time using network

