

# Flood control system



Prepared by:  
Manar Saleh & Marah Qubbaj

Supervised by:  
Dr. Luai Malhis

# Outlines

**01**

**The definition of  
flood's controlling  
system**

**02**

**Why we used flood  
control system**

**03**

**Features  
&Components**

**04**


**Constraints**

**05**

**Future work**

01

**The definition of flood's  
controlling system**



It's the system which detects the level of water in the ground and streets to deal with flood problems automatically in order to save people's life.

After that, it will collect and store water rather than waste it.



02

# Why we used flood control system

# There are many dangerous flood effects:



Physical danger.



Economic problems.



Loss of lives.

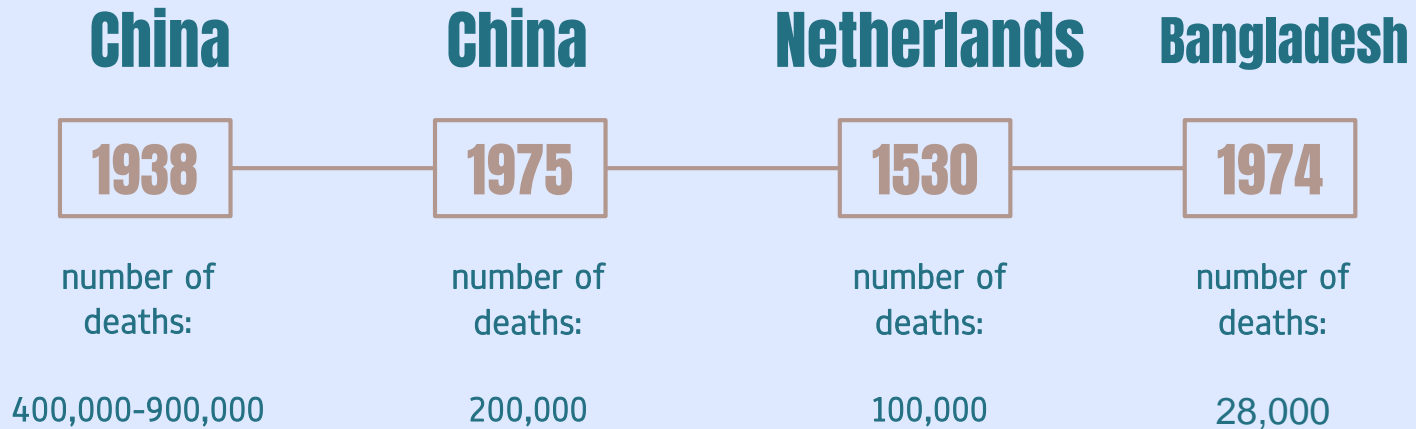


Property damage.



Psycho-social flooding effects.

# The worst floods in the history



# Features&Components

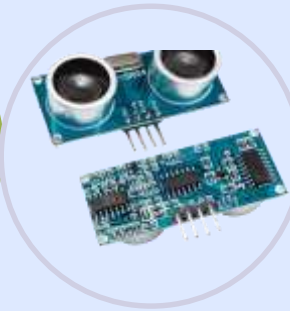
03

# Flood probability check part:

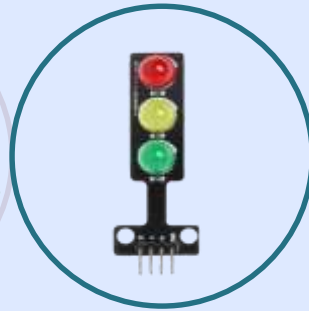
## Hardware componant



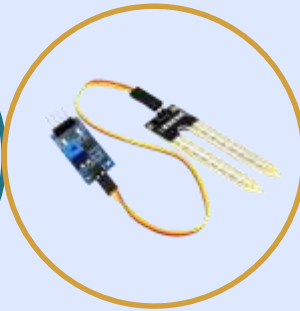
**2 Servo  
Motor**



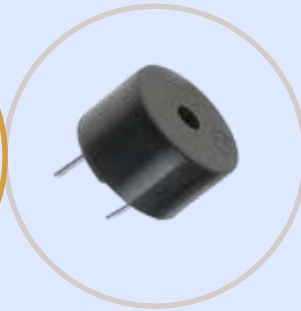
**Ultrasonic  
Sensor**



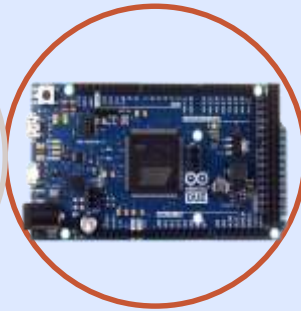
**Traffic Lights**



**Soil  
Moisture  
Sensor**



**Buzzer**



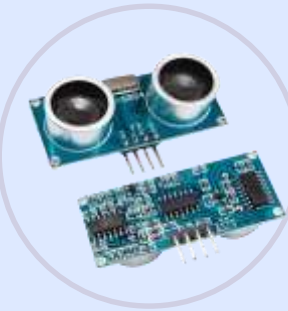
**Arduino  
Due**

# water drainage part:

## Hardware componant



**2 water pump**



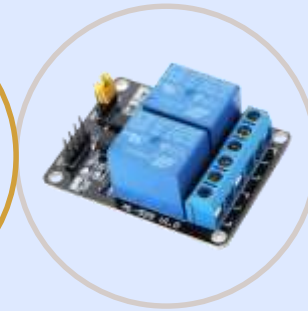
**Ultrasonic Sensor**



**Water Turbidity Sensor**



**12 volts battery.**



**Relay.**



**Arduino Due**

# mobile application part:

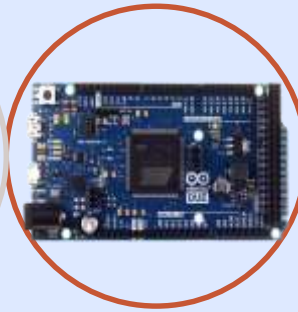
Hardware component



**Mobile  
phone**



**HC-05  
Bluetooth  
module**



**Arduino  
Due**

04

# Constraints




Our project contains electronic parts and deals with water, so we separated both in order to avoid damaging the electronic parts.



when using more than one servo motor we needed a voltage source that is larger than needed by one motor.

**Future work**

**05**



We think in the future we can use this polluted water by recycle polluted water and use it for Irrigate crops, This water can be distributed to many desert areas, Thus, reducing desert lands and increasing agricultural lands and agricultural productions for these countries.

**Thanks**

