<div align="center">

SMART IRRIGATION SYSTEM
correctness of the diagrams depends on the problem statement she gives so copy mindfully!

</div>

Termwork 1:

Ambiguities:

How will the system determine the appropriate amount of water to be used for each irrigation zone?

How will the system handle irrigation scheduling during periods of rain or high humidity?

How will the system handle irrigation scheduling during periods of drought or water restrictions?

Inconsistencies:

There are inconsistencies in the accuracy and reliability of the soil moisture sensors.

There are inconsistencies in the coverage and effectiveness of the irrigation nozzles.

There are inconsistencies in the availability and compatibility of the irrigation controllers and sensors.

Incompleteness:

The system does not specify the range and accuracy of the soil moisture sensors.

The system does not specify the maximum and minimum water pressure required for the irrigation system.

The system does not specify how it will handle system malfunctions and errors.

Functional Requirements:

The system should be able to monitor the soil moisture levels in different zones.

The system should be able to schedule irrigation tasks for different zones based on their water needs.

The system should be able to adjust the irrigation schedule based on weather conditions.

The system should be able to turn the irrigation system on and off remotely.

The system should be able to provide alerts and notifications to the users.

The system should be able to provide a real-time view of the irrigation status.

Non-functional Requirements:

The system should be energy-efficient and use sustainable energy sources.

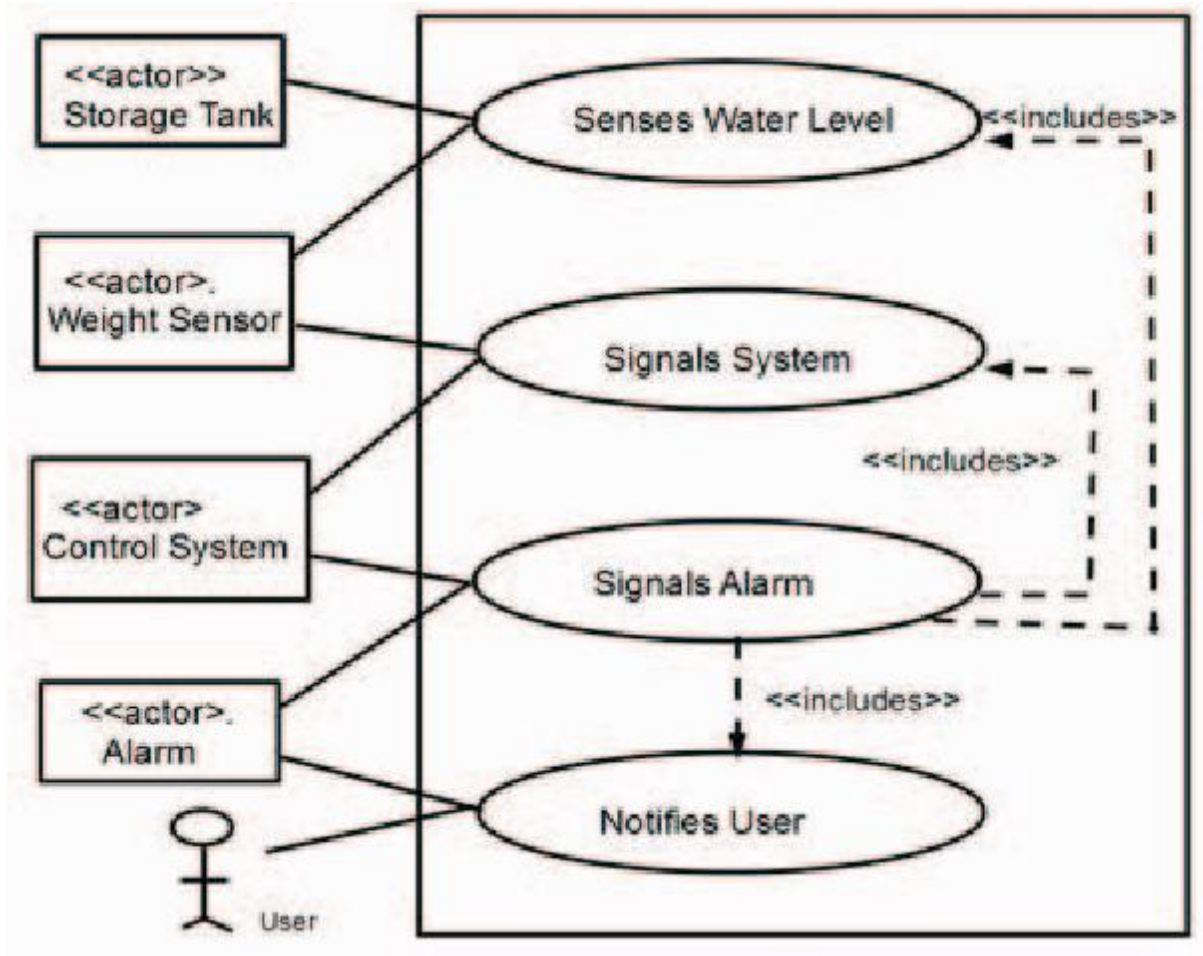The system should be reliable and minimize the risk of system failures.

The system should be scalable to handle different sizes of irrigation systems.

The system should be easy to install and integrate with existing irrigation equipment.
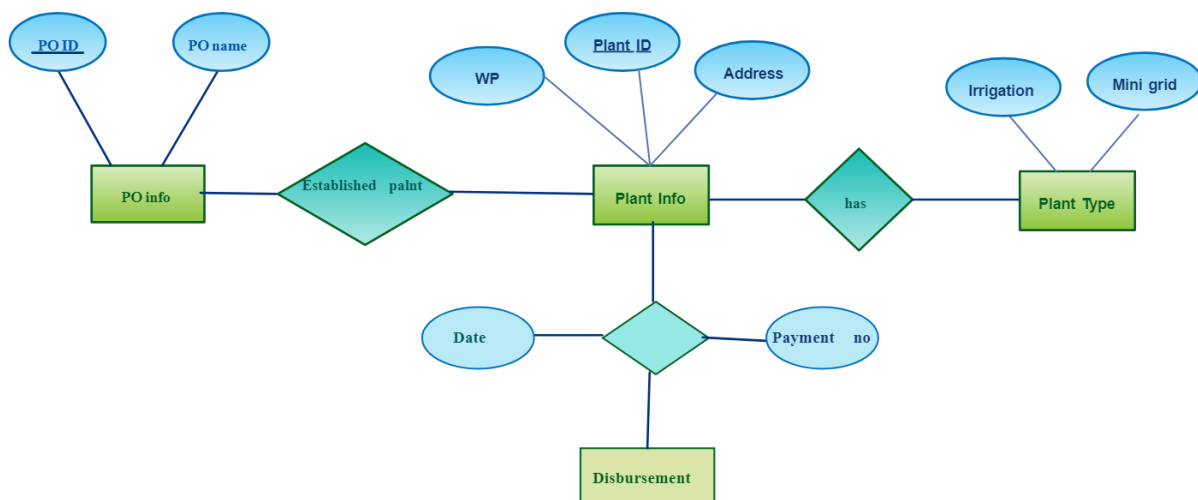
The system should be easy to use and provide a user-friendly interface.

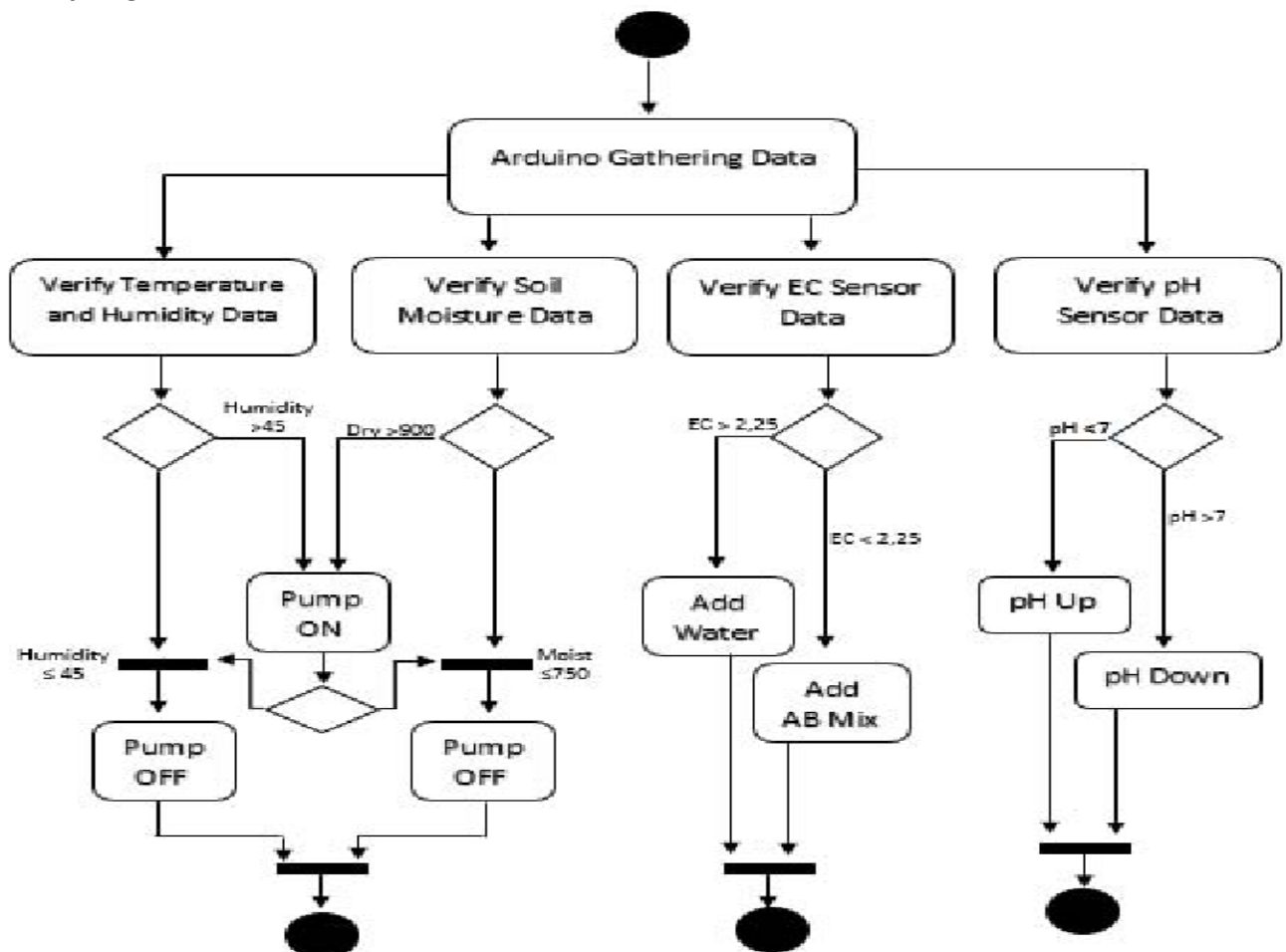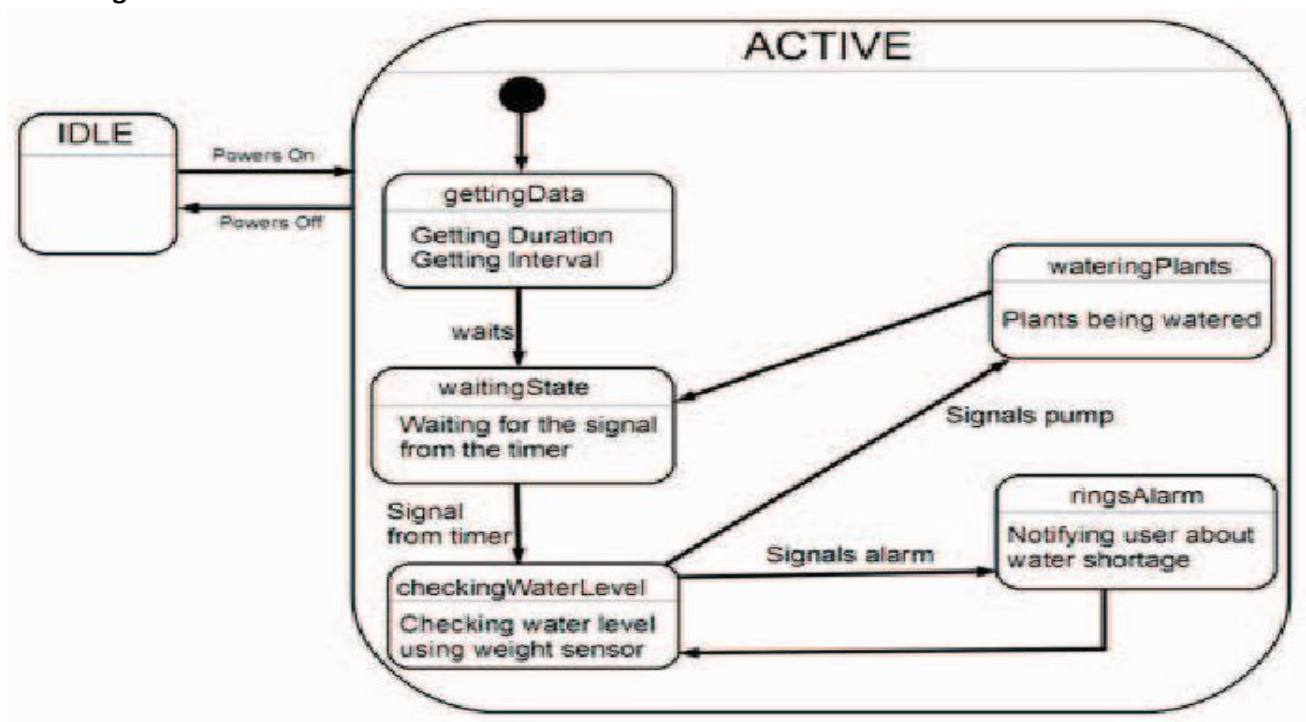The system should be secure and protect user data and privacy.
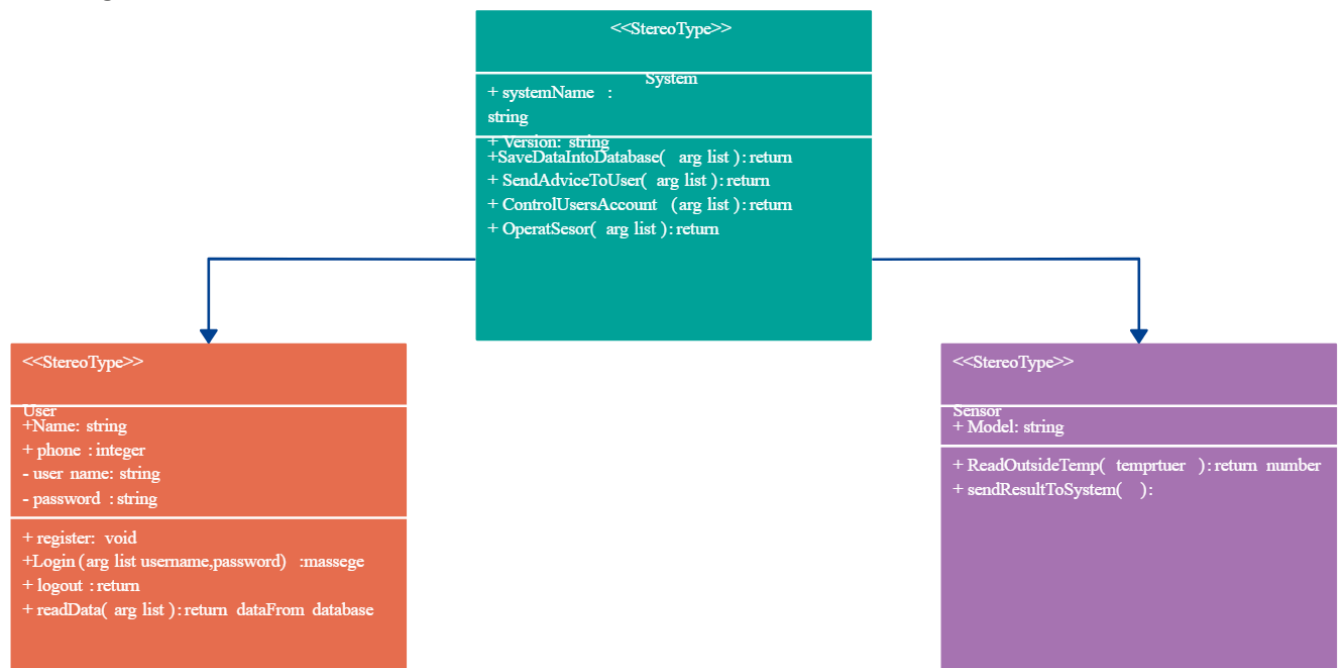
Termwork 2:

Termwork 3:

Termwork 5:
activity diagram:

state diagram:

Termwork 6:

class diagram:

<<StereoType>>

System
+ systemName :
string
+ Version: string
+SaveDataIntoDatabase(arg list) : return
+ SendAdviceToUser(arg list) : return
+ ControlUsersAccount (arg list) : return
+ OperatSesor(arg list) : return

<<StereoType>>

User
+Name: string
+ phone : integer
- user name: string
- password : string

+ register: void
+Login (arg list username,password) :massege
+ logout : return
+ readData(arg list) : return dataFrom database

<<StereoType>>

Sensor
+ Model: string

+ ReadOutsideTemp(temprtuer) : return number
+ sendResultToSystem( ):

sequence diagram:

Termwork 7: