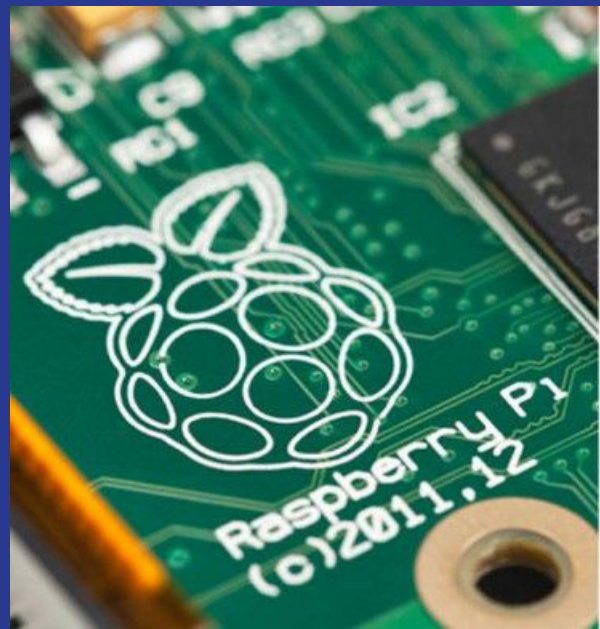


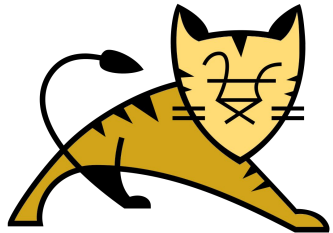
# PiSec

## Group 35

- David Roelofsen
- Dimitar Popov
- Mauricio Merchan
- Viktor Tonchev
- Vladimirs Popovs
- Yordan Tsintsov



# Programming



- Back-end:
    - Java, Tomcat, GPIO library
  - Front-end:
    - HTML, CSS and Javascript
  - Database:
    - Postgres
  - Testing:
    - Junit, JerseyTest, Postman
-

# Design & Wireframe

- User interface

Simple and intuitive interface

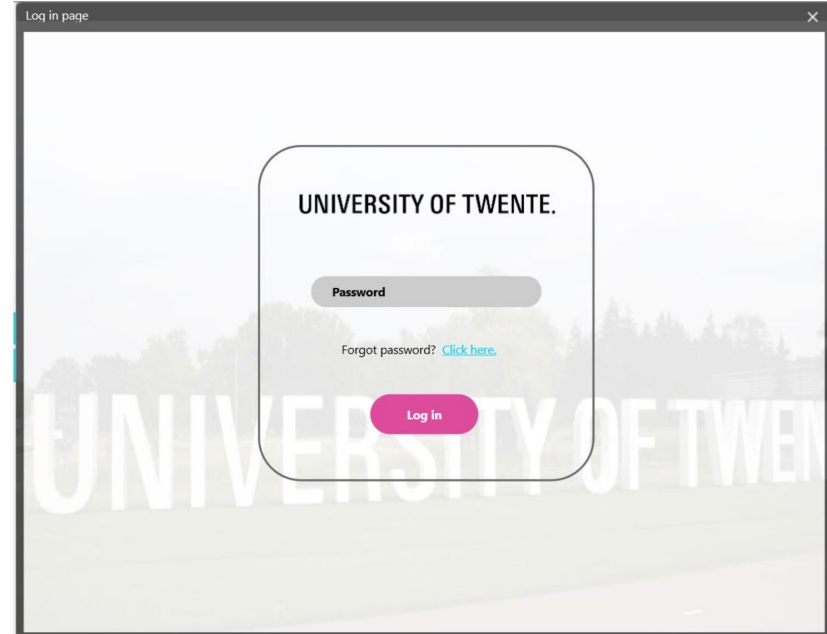
Web app (should be able on cellphone and desktops)

User should receive notifications (by email or web alerts)

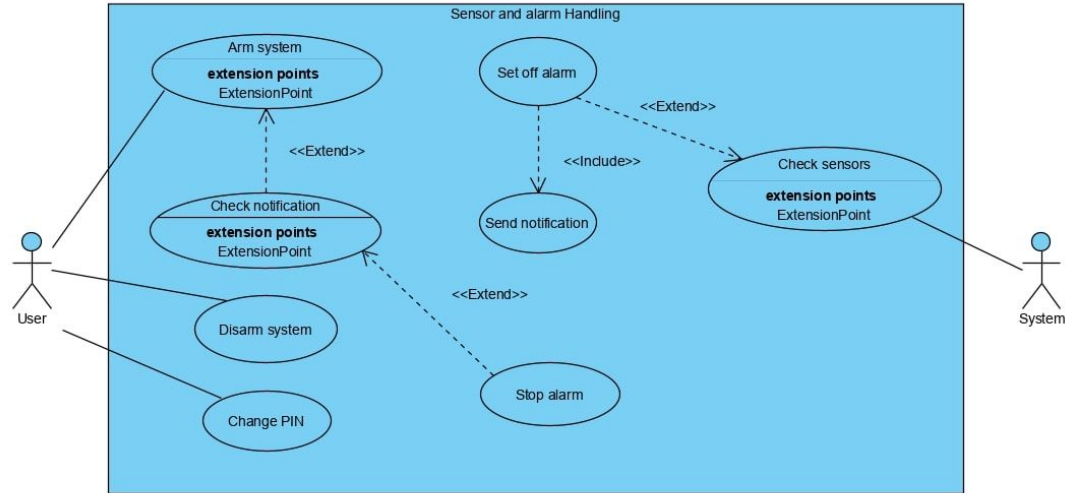
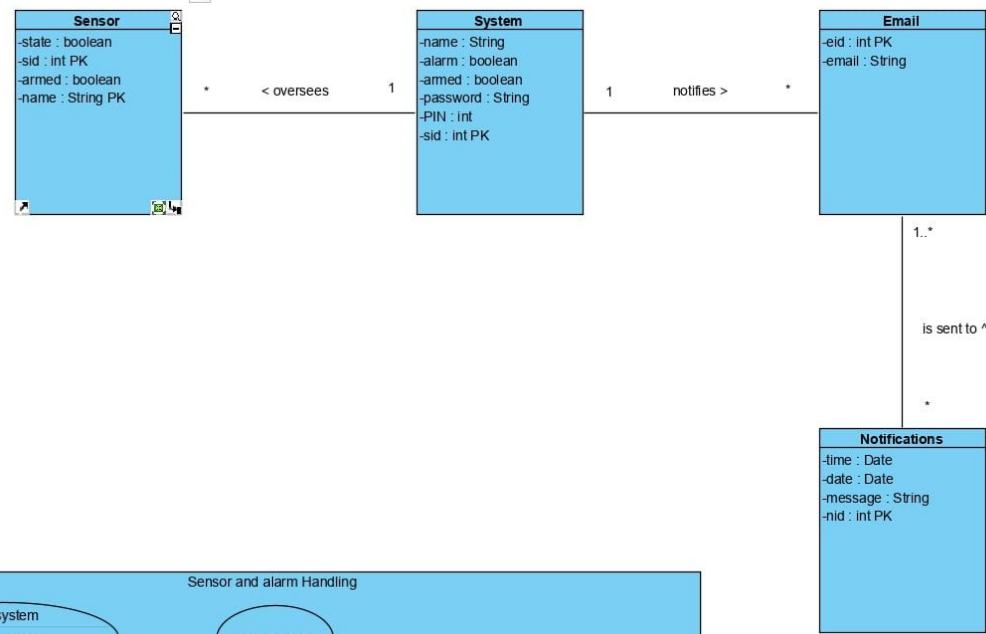
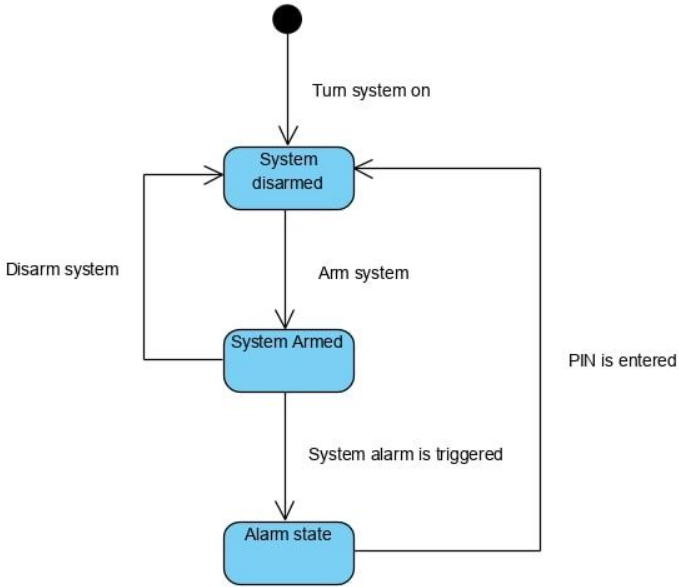
- Wireframe

Mockplus as a main tool

The file was created using Mockplus Classic and the file is a .mp file.



# Design



# System overview

- User should login with his/her user, password and pin code
- The system is controlled by the web app, it has three states:

Disarmed, armed, alarm

- The user can arm/disarm using the pincode.
- When the system is armed and it changes to open state abruptly, the system moves to alarm state. And the user get a notification.



# Requirements

- System can be armed/disarmed through the web interface.
  - The delay between the change of state of the sensor and web app should be less than 1 sec.
  - The login process is secure and not injectable.
  - User passwords are stored in a secure (hash + salt) manner
-

# Milestones

- Being able to read date and interpret it from the sensor (ensure the state of the sensor).
- Display each status on the webapp
- Arming and disarming the system
- Notification system (MVP ready)
- Testing and additional requirements



# Mockup





UNIVERSITY OF TWENTE.

Password

Forgot password? [Click here.](#)

Log in

## UNIVERSITY OF TWENTE.

## Your info

System status:

ARMED

Active sensors:

Bedroom window:

CLOSED

Livingroom door:

CLOSED

Kitchen window:

CLOSED

⋮

## Change

ARM/DISARM  
SYSTEM

CHANGE PIN

MANAGE EMAILS

## UNIVERSITY OF TWENTE.

## Your info

System status:

DISARMED

Active sensors:

Bedroom window:

CLOSED

Livingroom door:

CLOSED

Kitchen window:

CLOSED

⋮

## Change

ARM/DISARM  
SYSTEM

CHANGE PIN

MANAGE EMAILS

## UNIVERSITY OF TWENTE.

## Your info

System status:

ALARM!

Active sensors:

Bedroom window:

CLOSED

Livingroom door:

OPEN

Kitchen window:

OPEN

## Change

CANCEL ALARM

CHANGE PIN

MANAGE EMAILS

## UNIVERSITY OF TWENTE.

## Manage E-mails

Add E-mail:

E-mail:

ADD

## Existing E-mails:

somemail@mail.com

REMOVE

jaimi.pijen@gmail.com

REMOVE

marcus.gerhold@utwen

REMOVE

.  
.  
.

## UNIVERSITY OF TWENTE.

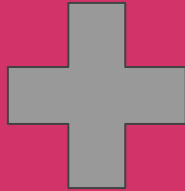
Old PIN:

New PIN:

Repeat new PIN:

CHANGE  
PIN

# Communication and project management



# Q&A

Do you have any questions?