

# Smart Home Lighting System

Team 22

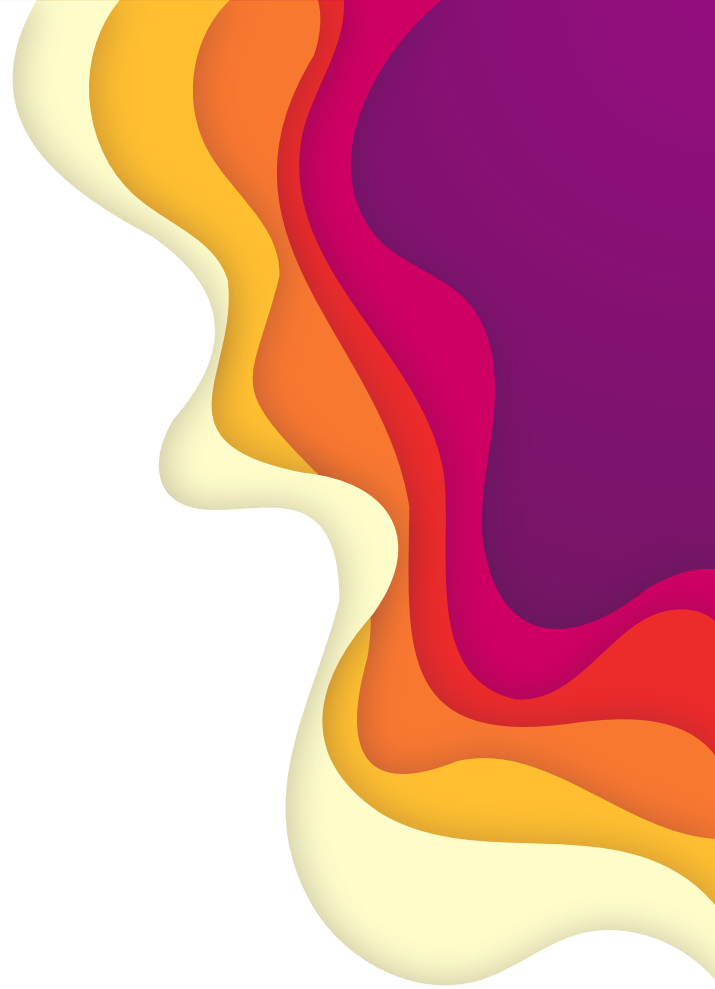


# Overview

What did we do?

Demo

What are we going to do?



# What did we do?

- Dark theme
- Security
- Optimized loading sequences
- Set up database
- Established a connection between front-end and back-end
- Java program for LDR
- Set up a library for LED strip
- Generated SWIG



# User Interface

Dark theme

Optimized loading  
sequence

Security

LDRData graph

Change theme on color  
update

Google Single Sign On

Established connection  
with a Back-end

Bug fixes

Settings page





# Database

Stores:

1. Display parameters
2. RGB values and brightness
3. Animation and preset information
4. Data from the LDR sensor



# System testing

- GET and POST requests
- Front-end to Back-end
- LDR sensor to Back-end
- Back-end to Database



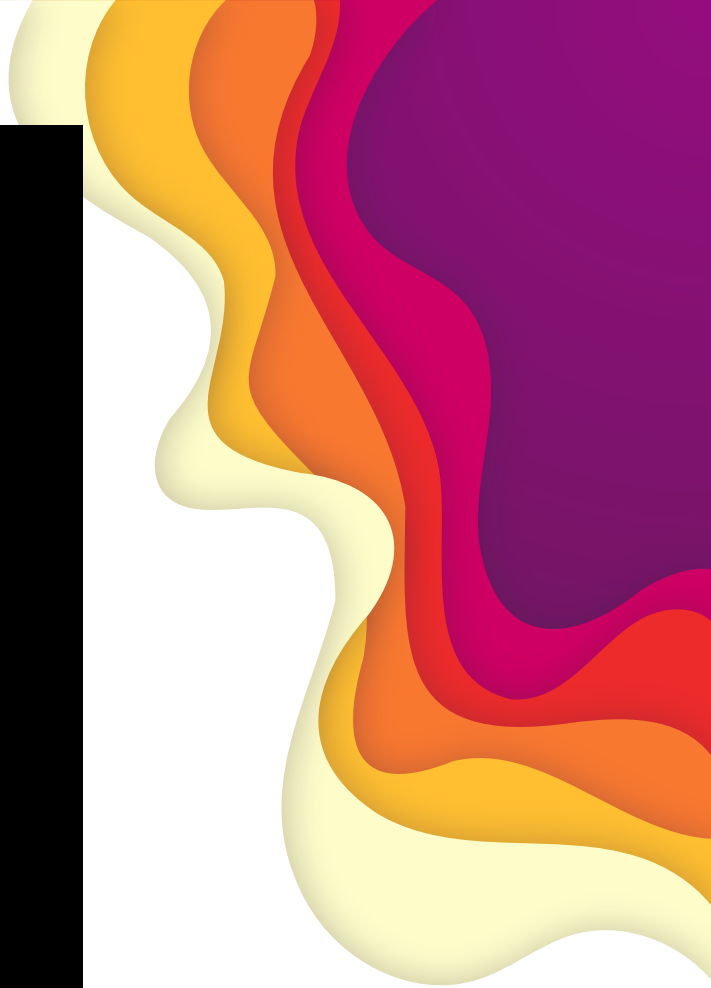
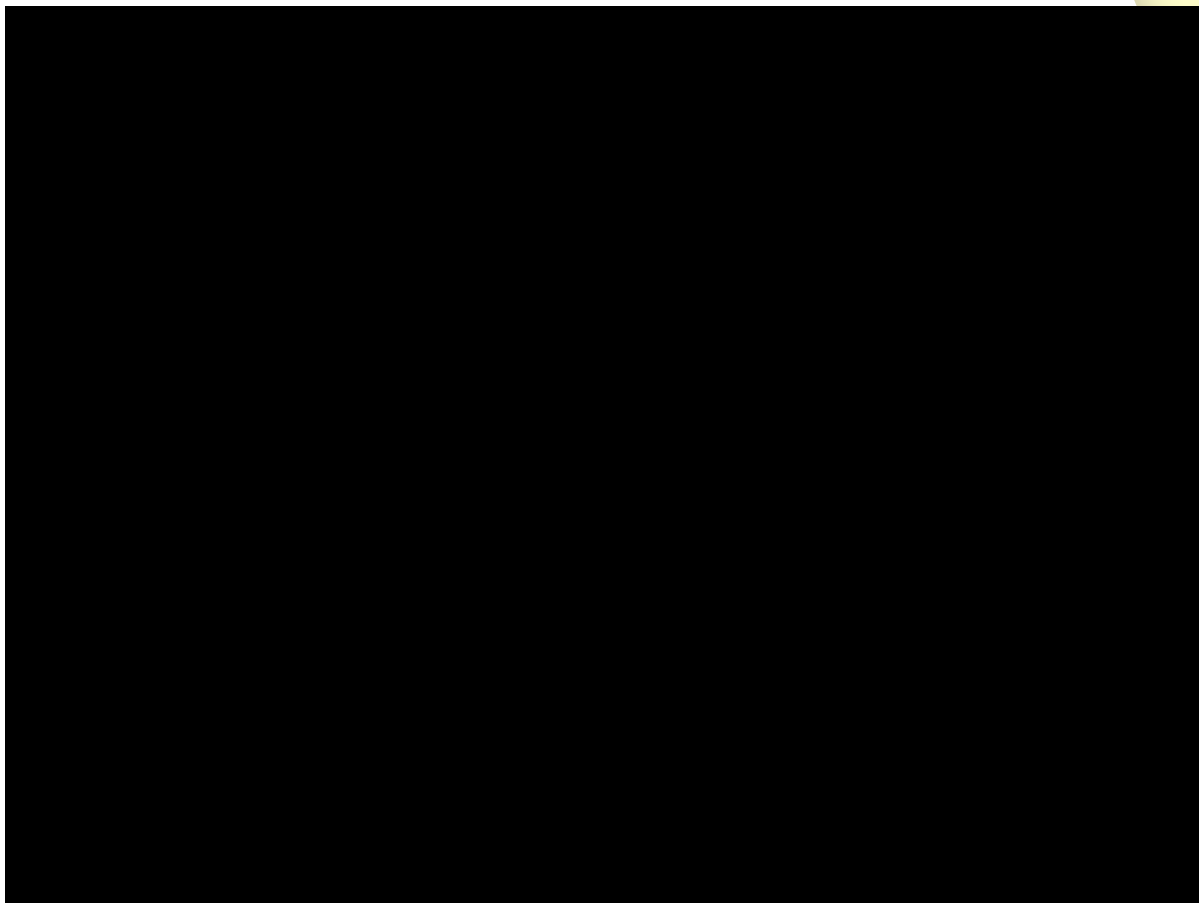
# Hardware

- LDR sensor
- SWIG
- PI4J









# What are we going to do?

- Develop the Java code to light up LED strip with different modes
- Establish data flow between LED strip and UI





# Thanks!

Any questions?