

001

What is the Moodify & why do I want it?

002

Timeline & Future Improvements



Testing & Communication





001

What is the Moodify & why do I want it?







What is the Moodify™?

Covid: Everyone is indoors, but is there enough light?



- → Multifunctional light source
- → Change the atmosphere of your home
- → Improve your mood
- → Must-have!





Abundant Options of Colours

Variable Intensity

Automated Functionality

Fashionable Web Interface

> Bluetooth Connectivity

Vivid Music Mode



PRODUCT DEMO



OO2
Timeline & Future
Improvements





Sprint 1 Sprint 2 Sprint 3 Sprint 4 Sprint 5

14/9 - 27/9

- → Get to know our team
- → Idea & Scope (Initial Plans)

Initial Plans

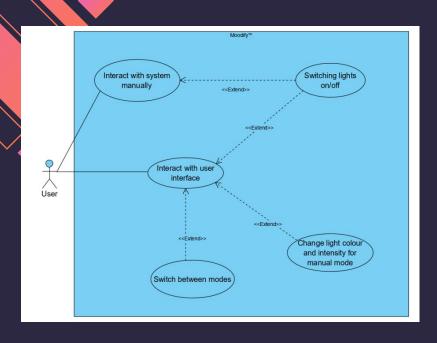
- → Different functionalities & Modes 📉
- → Automatically turns on/off <
- → The user can turn the light on/off
- → Alarm clock with light AND sound (F)
- → Lights change acc. To music 🥎
- → Adaptive brightness 🗸
 - But only at the times you want to
- → Colour options
- → Web interface

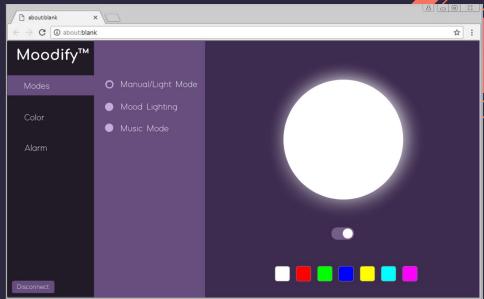
Sprint 1 Sprint 2 Sprint 3 Sprint 4 Sprint 5

28/9 - 11/10

- → Libraries
 - ♦ W3Schools library (CSS)
 - ♦ Web Bluetooth API (interaction; calls & requests)
 - ♦ BLE-GATT Server (Server)
 - Ws281_x new Pixel Library (bit stream to light)
 - PyAudio (read sound into buffer; chunks)
 - SciPy (filtering tools for mic input)
 - ♦ (NumPy (Base library; dependencies))

Design





 Sprint 1
 Sprint 2
 Sprint 3
 Sprint 4
 Sprint 5

 12/10-16/10
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- → Web Interface
 - Looked like mockup
 - Light Intensity (W.I. only)
- → Connectivity
- → 2 modes
 - ♦ Manual Mode
 - Automatic Mode
- → Colour options (W.I. only)

Sprint 1 Sprint 2 Sprint 3 Sprint 4 Sprint 5

- → Improved Web Interface
 - RGB Colour Picker (impl.)
 - Polishing the W.I. (buttons, scroll bar, footer)
- → Light Intensity Implemented
- → Music Mode (colour & intensity)
- → Compatibility check (bluetooth; 05, browser type/version)

- → Improved Music Mode (F)
 (Frequency analysis vs
 Octave analysis)
- → Physical Switch

Future plans

- → Turn on/off automatically @specific times only
- → Wake up mode (w. alarm)
- → Customer Service

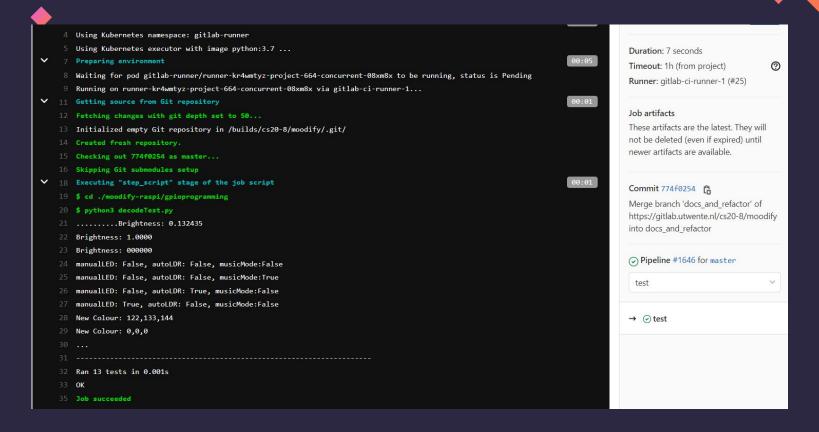
OO3

Testing & Communication





TESTING





GITLAB







Communication













THANKS!

Do you have any questions?