



MOODIFY™

Team 08

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Programming



I

librosa-python

For Sound analysis and extracting relevant information. For such functions python is a better choice as opposed to JAVA



W

Web Crypto API-JS

World Wide Web Consortium's recommendation for a low-level interface for cryptographic functions



W

Web Bluetooth-JS

We will be using Web Bluetooth API, to connect to our raspberry pi directly from the web browser



g

gpiozero-python

A standard python library that is also recommended by the raspberry pi official website for using gpio pins on the pi

Security

Bluetooth has poor built in authentication encryption

User-Credentials

Same idea as raspberry pi. The user will be needed to be authenticated by setting a password at the first time.

For next connections, this password will be used for later authentication.

Raspberry Pi-Public Private Key encryption

Raspberry Pi will have a generated public-private key set, and the public key will be sent as it is in public-key encryption, and the communication messages will be encrypted using this, and messages from pi

Extra LIMITATION

Browser compatibility Update compatibility data on GitHub

	Desktop						Mobile					
	Chrome	Edge	Firefox	Internet Explorer	Opera	Safari	Android webview	Chrome for Android	Firefox for Android	Opera for Android	Safari on iOS	Samsung Internet
Bluetooth	56 * <small>▲</small>	≤79 * <small>▼</small>	No	No	43 * <small>▼</small>	No	No	56	No	43	No	6.0
getAvailability	56 * <small>▲</small>	≤79 * <small>▼</small>	No	No	43 * <small>▼</small>	No	No	56	No	43	No	6.0
onavailabilitychanged	56 * <small>▲</small>	≤79 * <small>▼</small>	No	No	43 * <small>▼</small>	No	No	56	No	43	No	6.0
referringDevice	56 * <small>▲</small>	≤79 * <small>▼</small>	No	No	43 * <small>▼</small>	No	No	56	No	43	No	6.0
requestDevice	56 * <small>▲</small>	≤79 * <small>▼</small>	No	No	43 * <small>▼</small>	No	No	56	No	43	No	6.0
What are we missing?												

Will be usable only with Google Chrome, Opera, and Edge on both mobile phone and computers and also Samsung Internet on the mobile phones.

Browser compatibility

[Update compatibility data on GitHub](#)

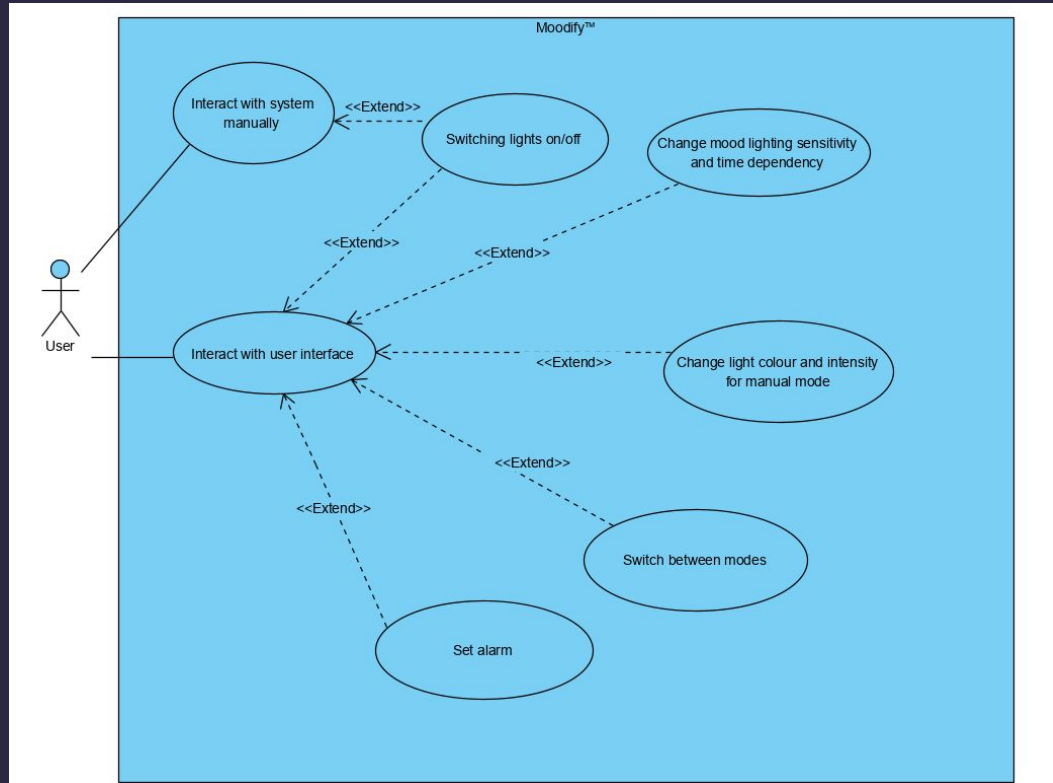
		Desktop						Mobile					
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referringDevice	🚩	56 ★	≤79 ★	No	No	43 ★	No	No	56	No	43	No	6.0
requestDevice	🚩	56 ★	≤79 ★	No	No	43 ★	No	No	56	No	43	No	6.0

What are we missing?



GITLAB

UML DIAGRAM





DEMO

Web Interface

For next time

Sprint 3

- For sprint 3 our main focus is now on the MVP
- Implementing the MVP compliant Web-Interface for the project
- Communication between Web interface and Pi

Sprint 4

- For sprint 4, we will complete all the functionalities of lamp.
- If all goes well in Sprint 3, we might add functionality to reduce our previous limitations

Future

Sprint 5

- Closure, no new functionalities to be added
- Full product delivery after making tweaks according to feedback.

Communication

Within Team

- Discord
- WhatsApp
- Google Drive
- Face-to-face meetings

With TAs

- Zulip
- Jitsi
- Microsoft Teams

THANKS!



Do you have any questions?