

SMART MIRROR

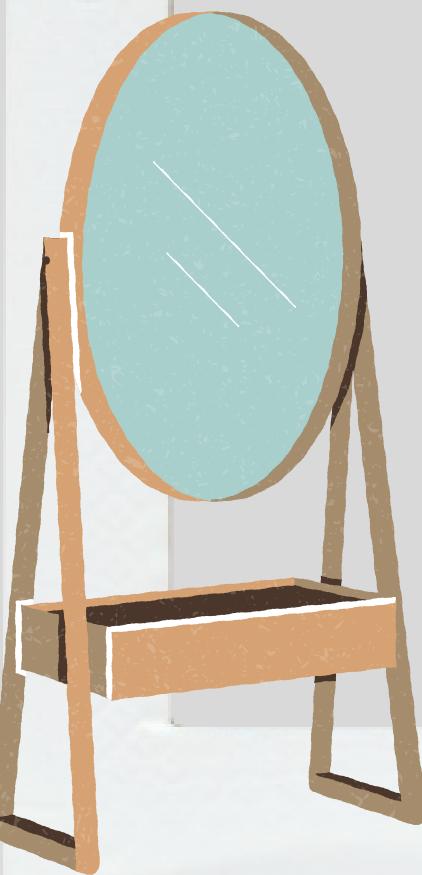
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OUTLINE

- Introduction
- Motivation
- Problem Definition
- Scope
- Technologies
- Timeline Chart
- Circuit Design
- SRS
- Conclusion
- References
- Implementation



INTRODUCTION

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- A smart mirror is a two-way mirror with an electronic display behind the glass.
- The display can show the viewer different kinds of information in the form of widgets such as weather, time, date, and news updates.



MOTIVATION

- The primary motivation behind the smart mirror is to improve quality of life.
- This product would be useful for busy individuals that want to multitask and stay informed while on the go. Instead of constantly pulling out a device, one could get informed while finishing daily grooming tasks.

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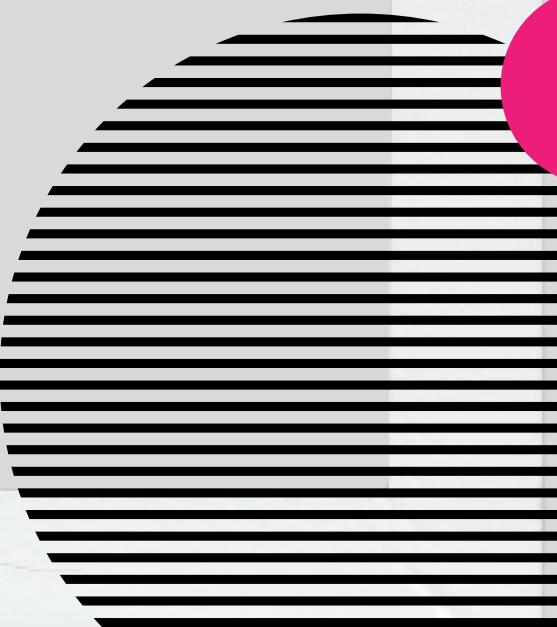


PROBLEM DEFINITION

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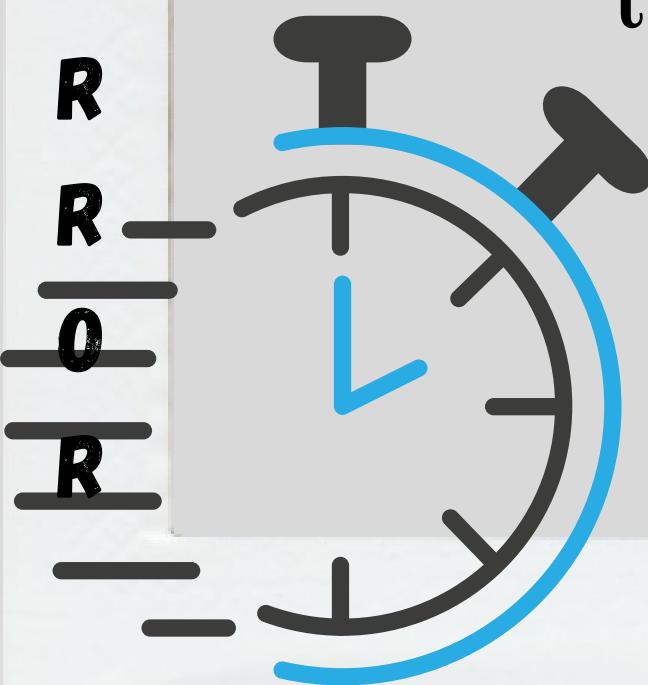
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- The mirror does various tasks like updating calendar, setting up reminders, updating date and time, displaying weather, daily news and other such general-purpose activities.
- It can respond to some of the commands like time, weather, news, technology etc.



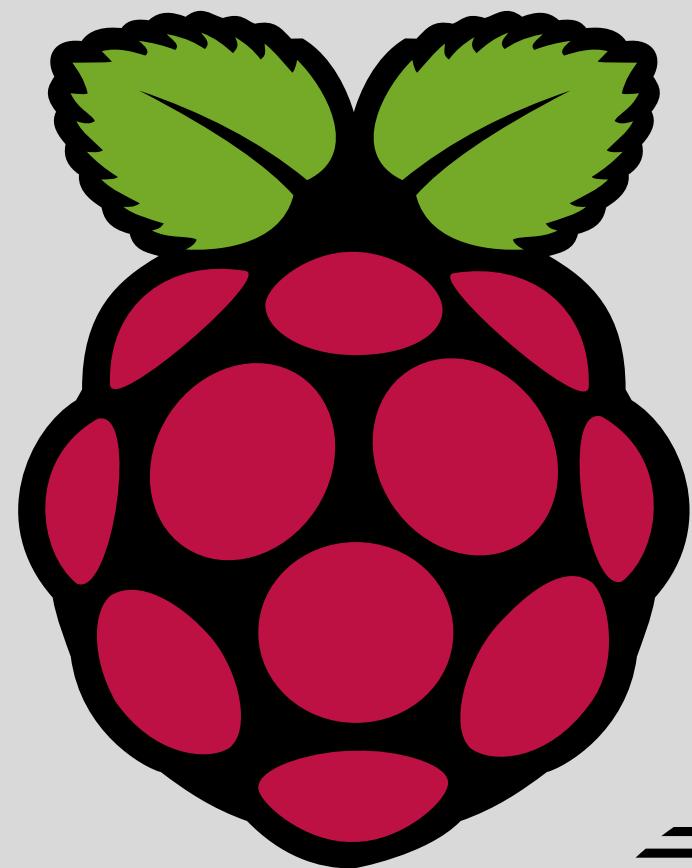
SCOPE

- Smart mirror need electricity.
- It is expensive compare to normal mirror.
- It is little bit hard to shift the mirror from one place to another.



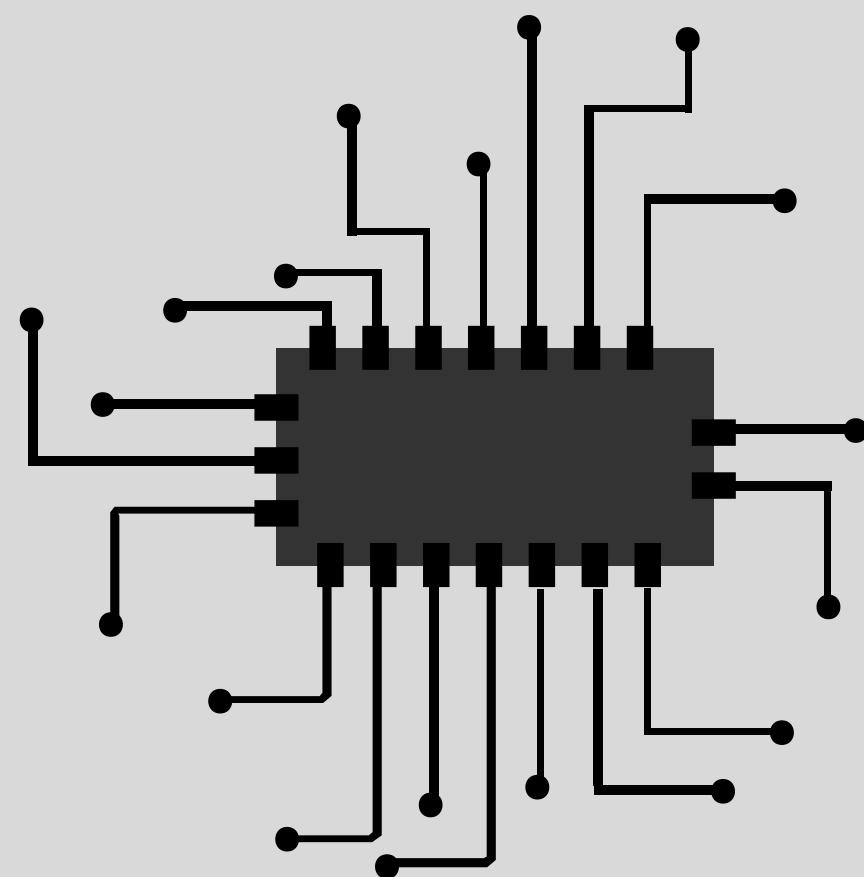
SOFTWARE : Raspberry Pi OS

Raspberry Pi OS (formerly Raspbian) is a Debian-based operating system for Raspberry Pi.



HARDWARE :

- Raspberry pie 3 model b+
 - Monitor
 - Two way acrylic glass mirror
 - HDMI Cable
 - Wooden frame



HARDWARE (CONT...)

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Table 1: Hardware Components

S M A R T M I R R O R	Raspberry pie 3 model b+ Two way acrylic glass mirror Monitor HDMI Cable	<p>These Raspberry Pi smart mirrors can tell you the time, date, weather, and more</p> <p>This is a high quality two way mirror (sometimes referred to as one way mirror), which reflects on one side and allows light to pass through on the other.</p> <p>It display any modules or content anywhere you want on the entire smart mirror.</p> <p>Wired screen mirroring involves the use of an HDMI cable that connects your device to a TV.</p>
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TIMELINE CHART

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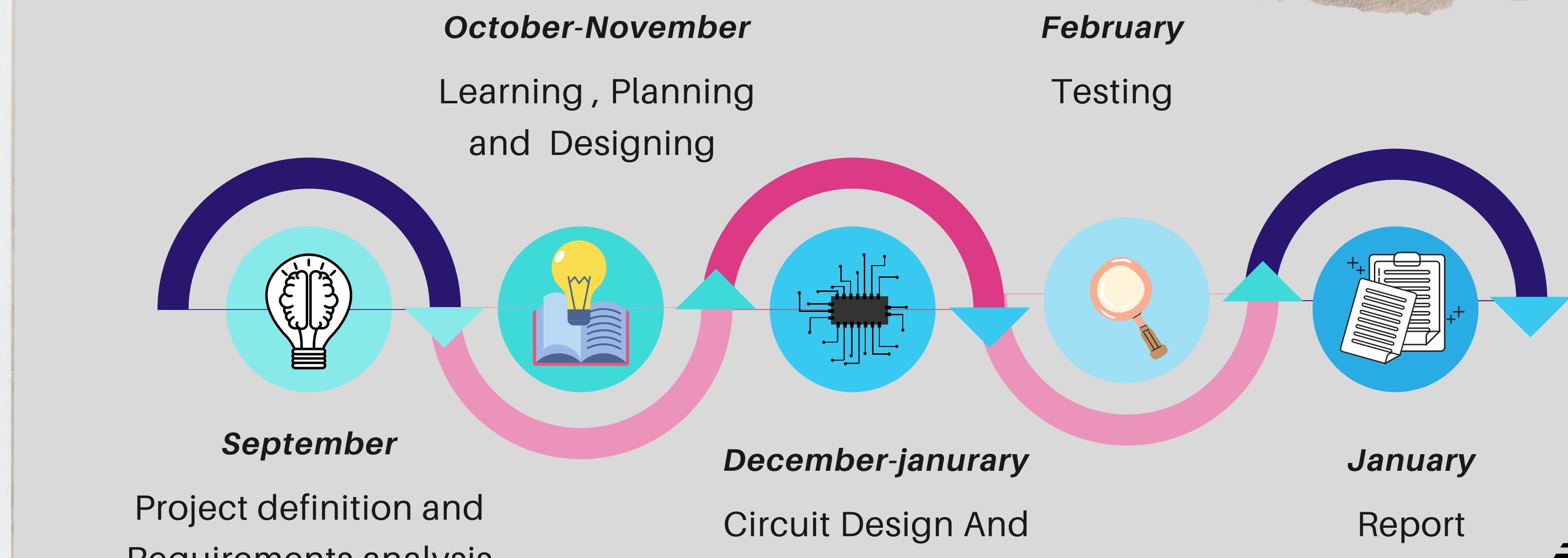


Figure 1: Timeline Chart

CIRCUIT DESIGN

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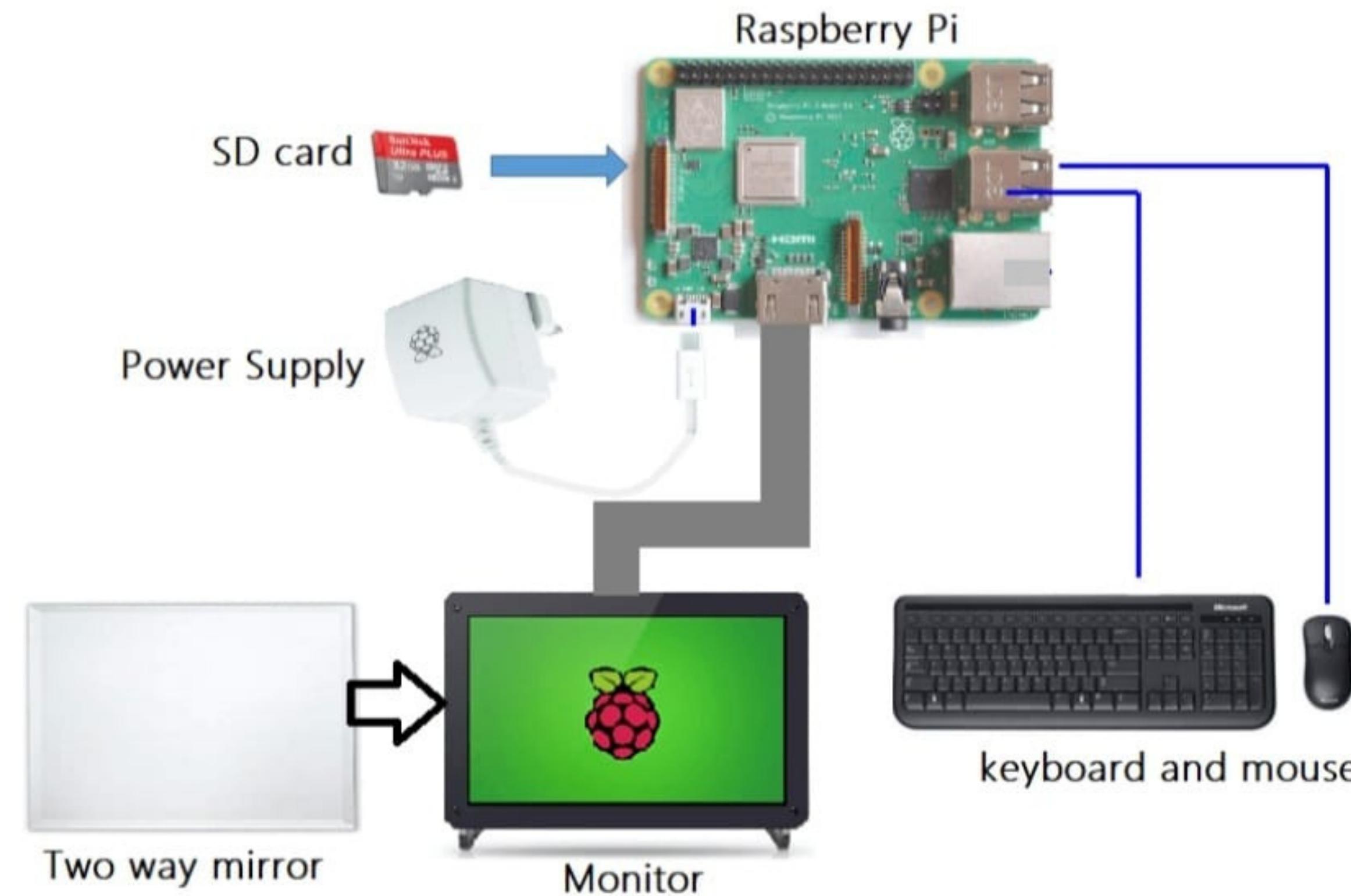


Figure 2: Circuit Design

CIRCUIT DESIGN (COUNT..)

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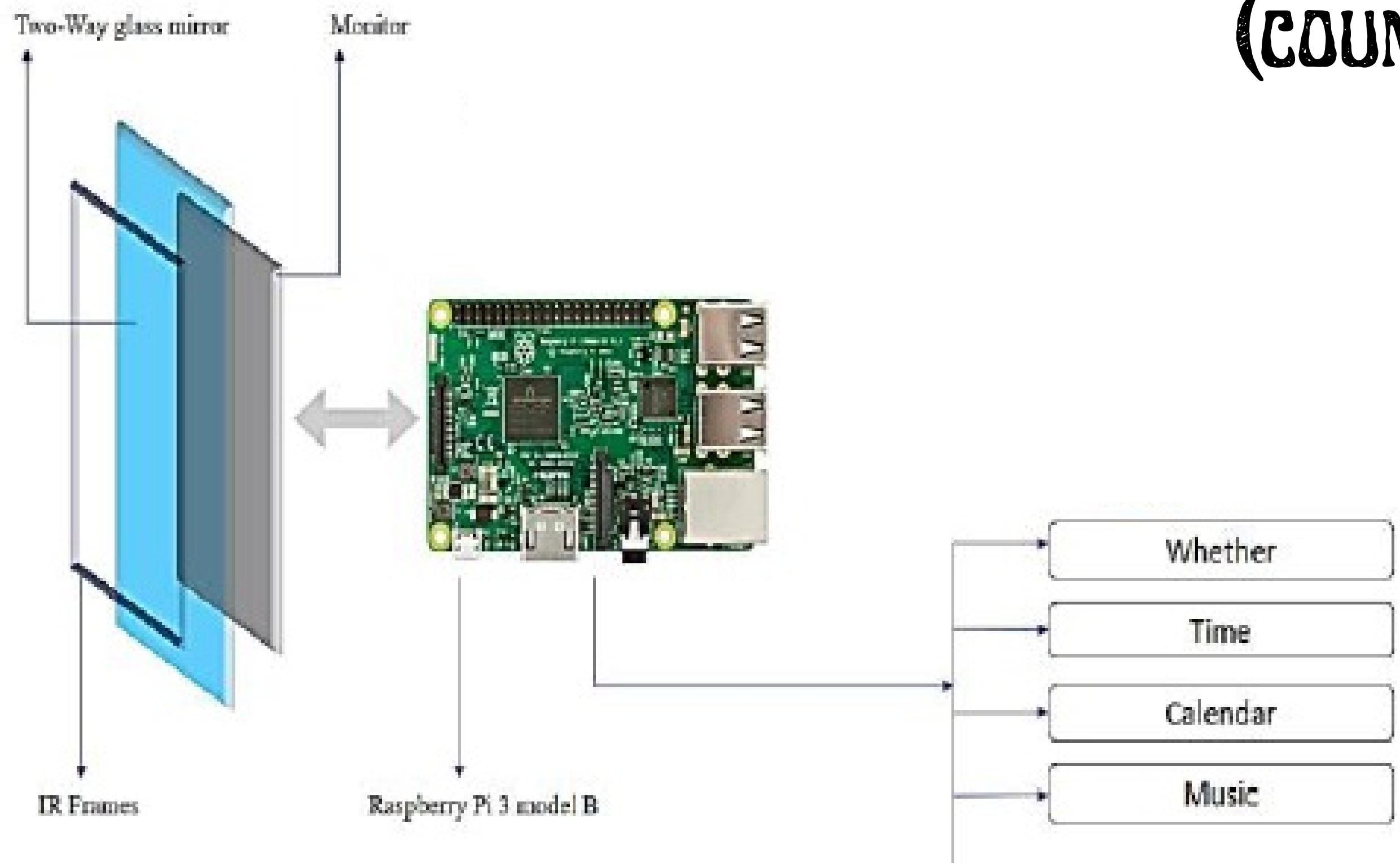


Figure 3: Functionality Diagram

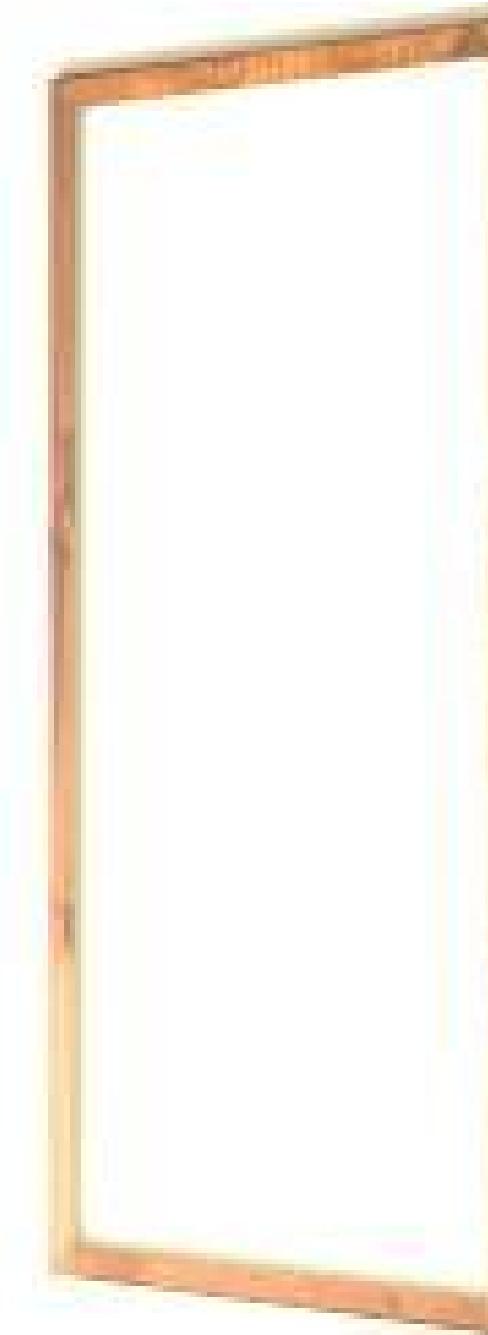
CIRCUIT DESIGN (CONT..)

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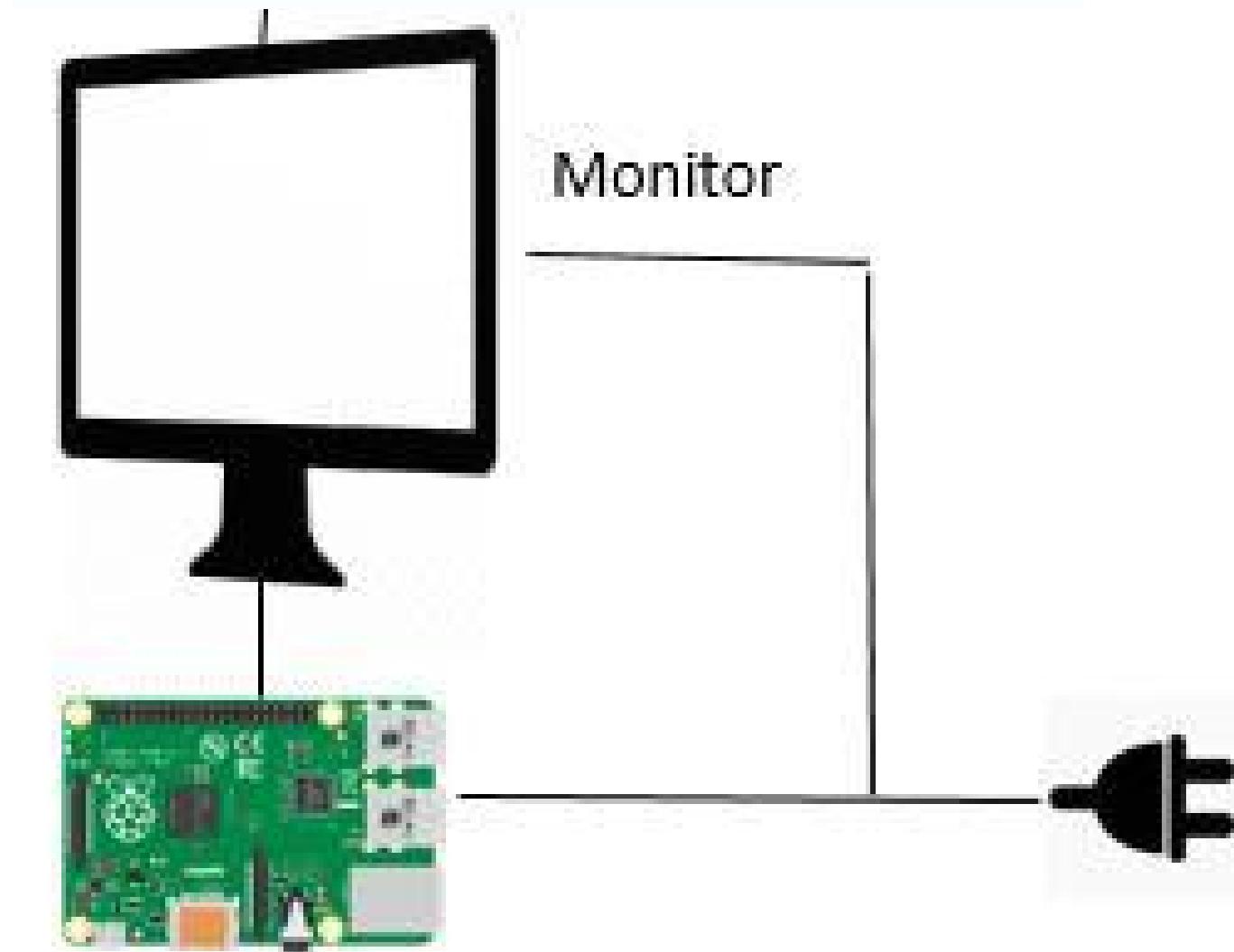
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Two Way
Mirror



Frame



Raspberry Pi

Figure 4: Frame Design

CIRCUIT DESIGN (CONT..)

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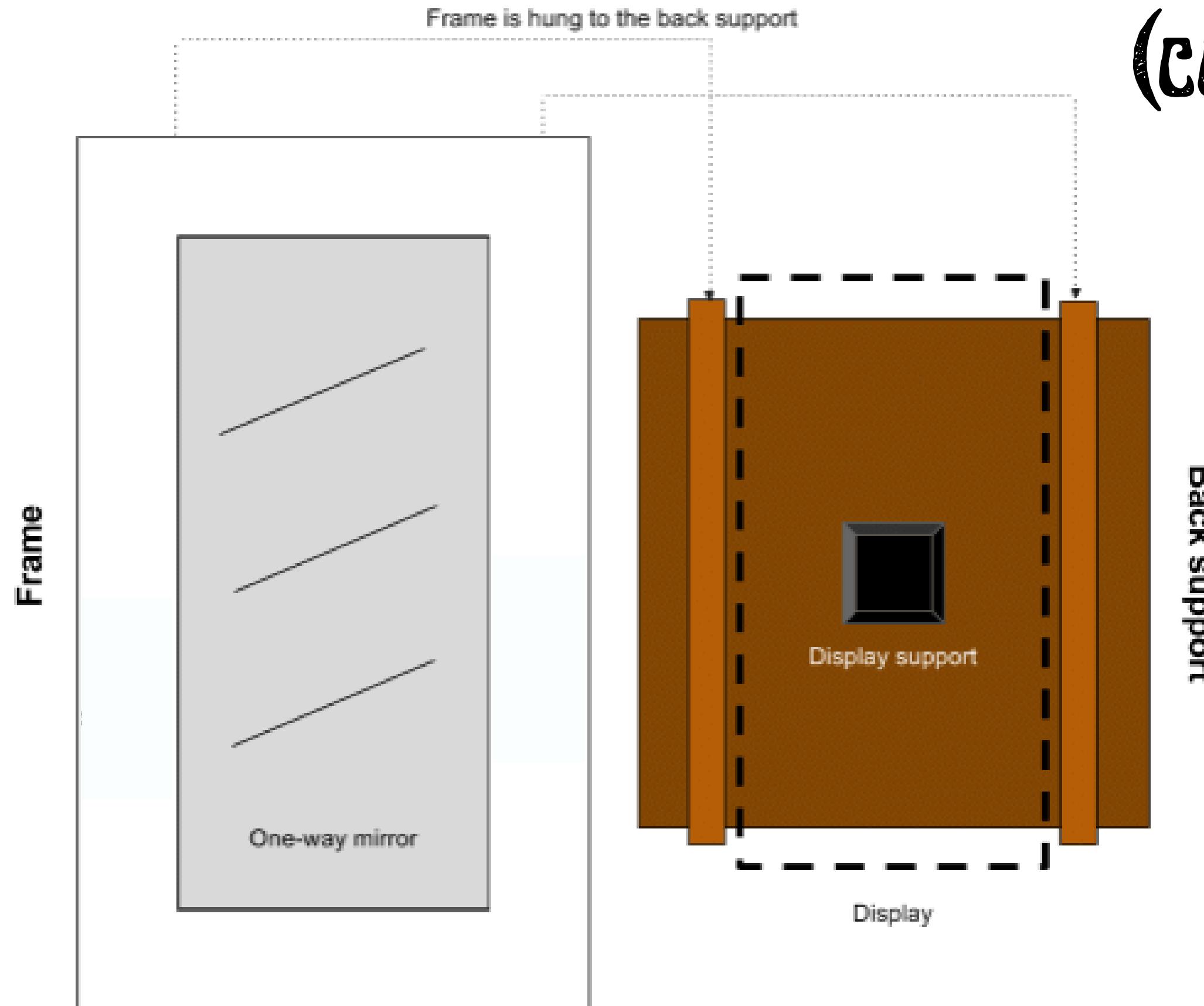


Figure 5: Back Support

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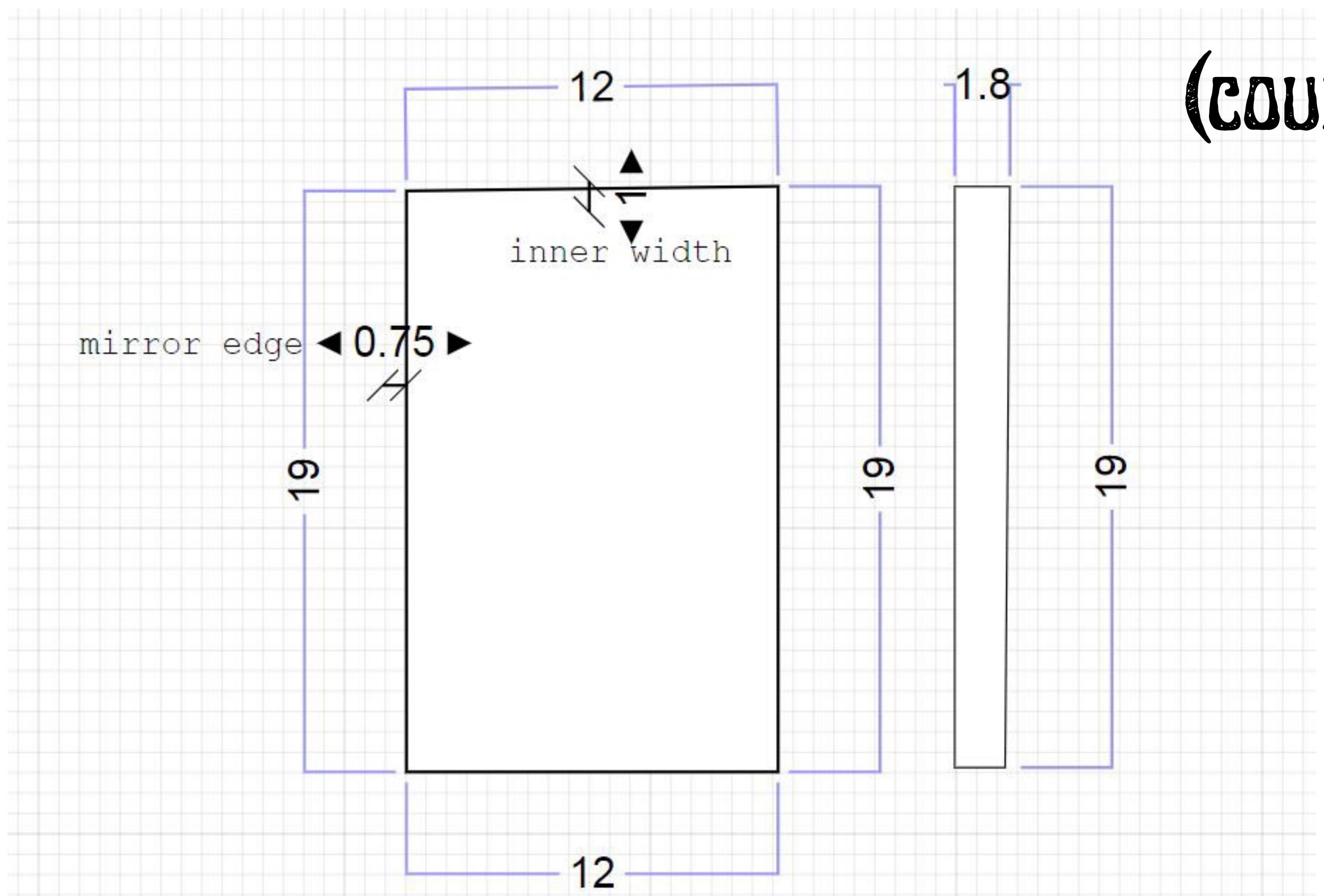


Figure 6: Frame Size

CIRCUIT DESIGN (COUNT.)

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Figure 7: Proposed Design

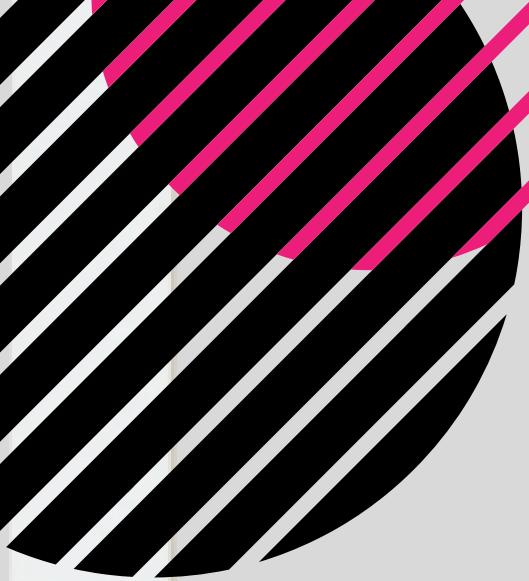
- A software requirements specification (SRS) is a document that describes what the software will do and how it will be expected to perform.
- [file:///C:/Users/dhruv/Desktop/smарт%20мирор\(SRS\)%20\(1\)%20\(1\).pdf](file:///C:/Users/dhruv/Desktop/smарт%20мирор(SRS)%20(1)%20(1).pdf)



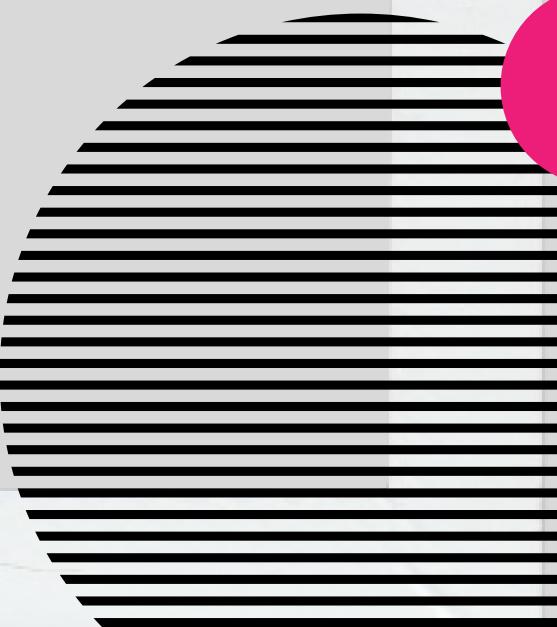
CONCLUSION

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The Smart Mirror has scope in the field of IoT and home automation. The Smart Mirror can be connected to the home appliances, mobile devices, etc. which can expand the functionality of the mirror. The facial recognition technology used can be future enhanced as a means of security.



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REFERENCES

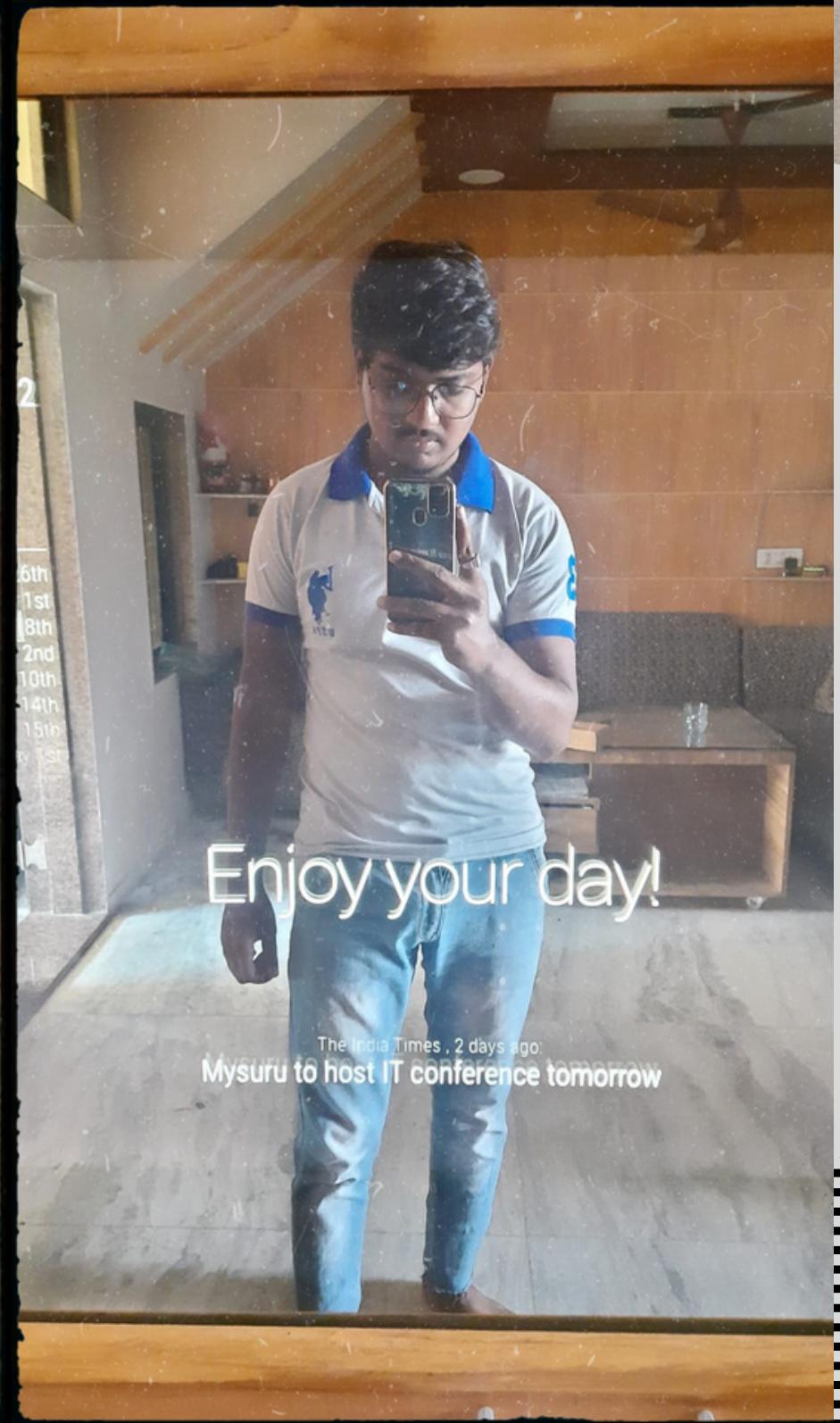
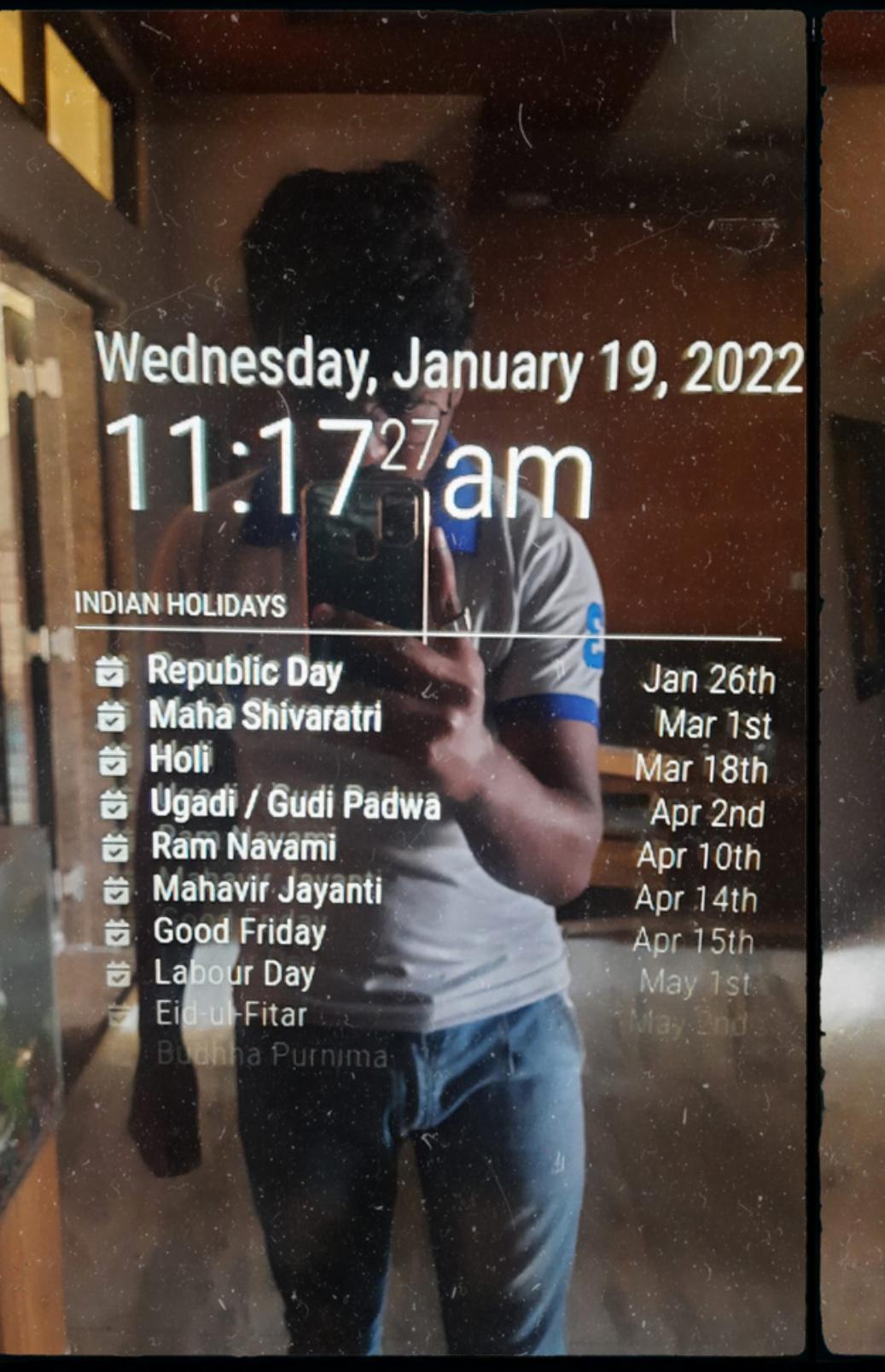
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2. <https://www.patreon.com> [Date accessed:2/09/21]
3. <https://www.raspberrypi.org> [Date accessed:11/10/21]



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IMPLEMENTATION

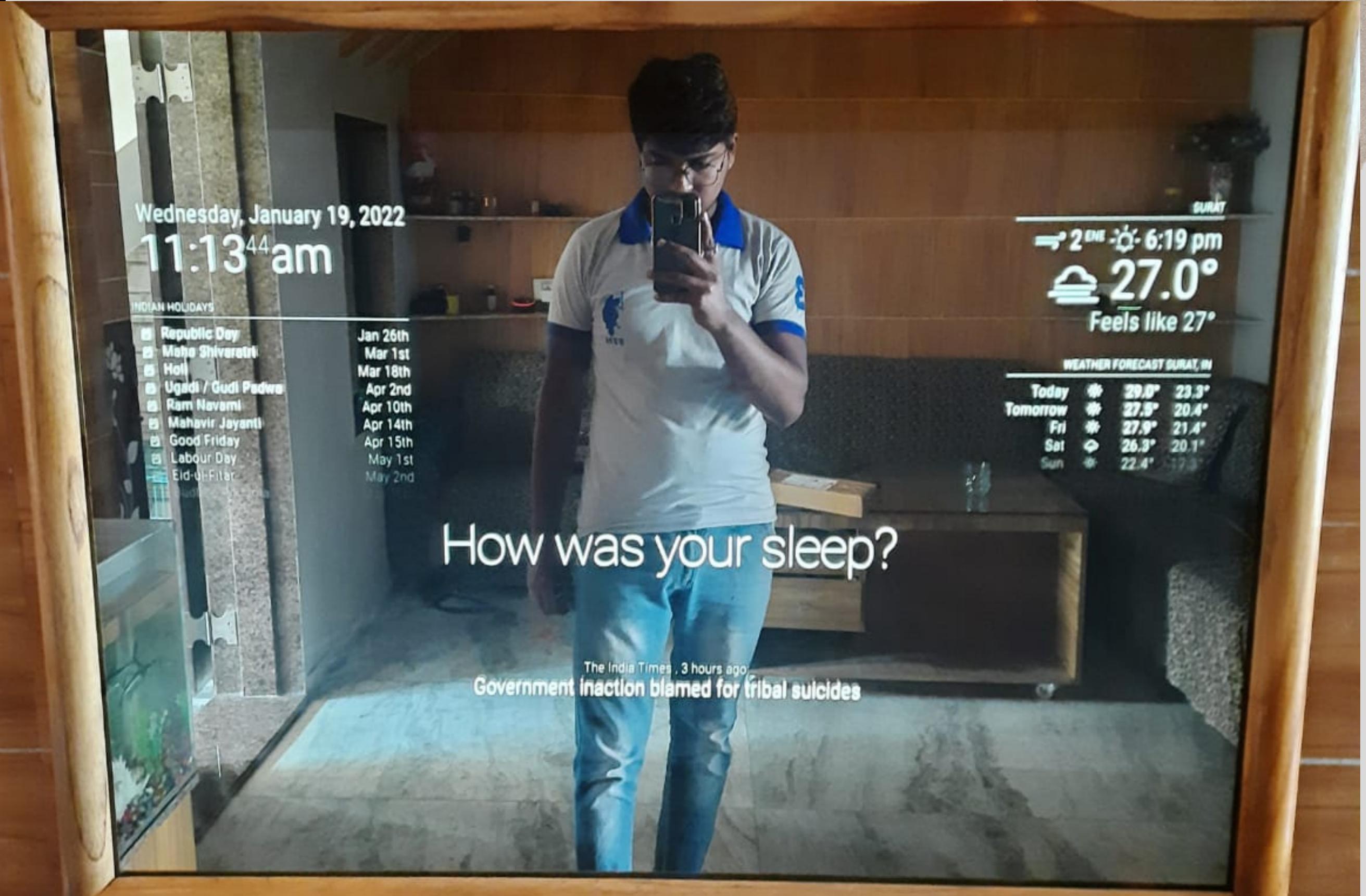
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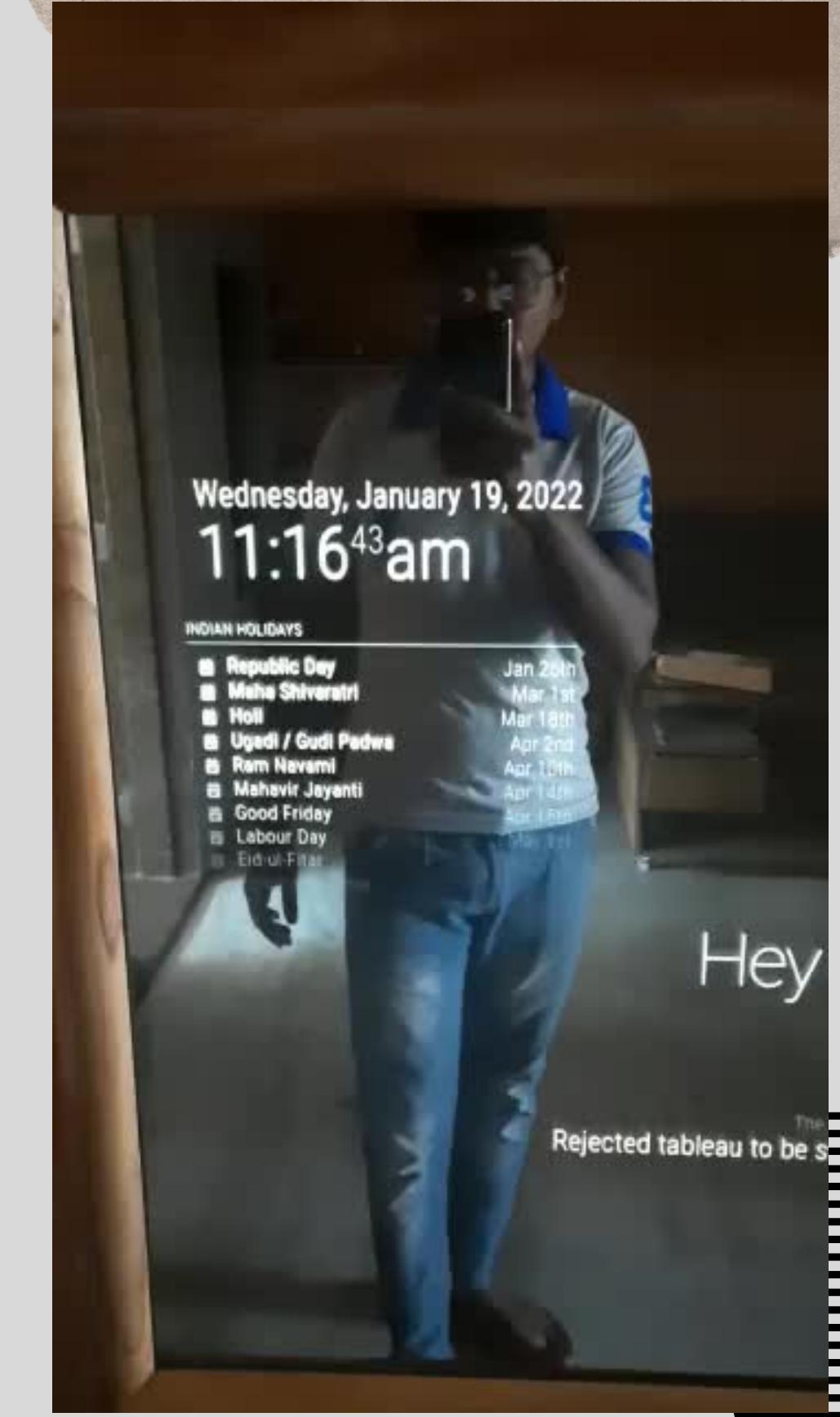
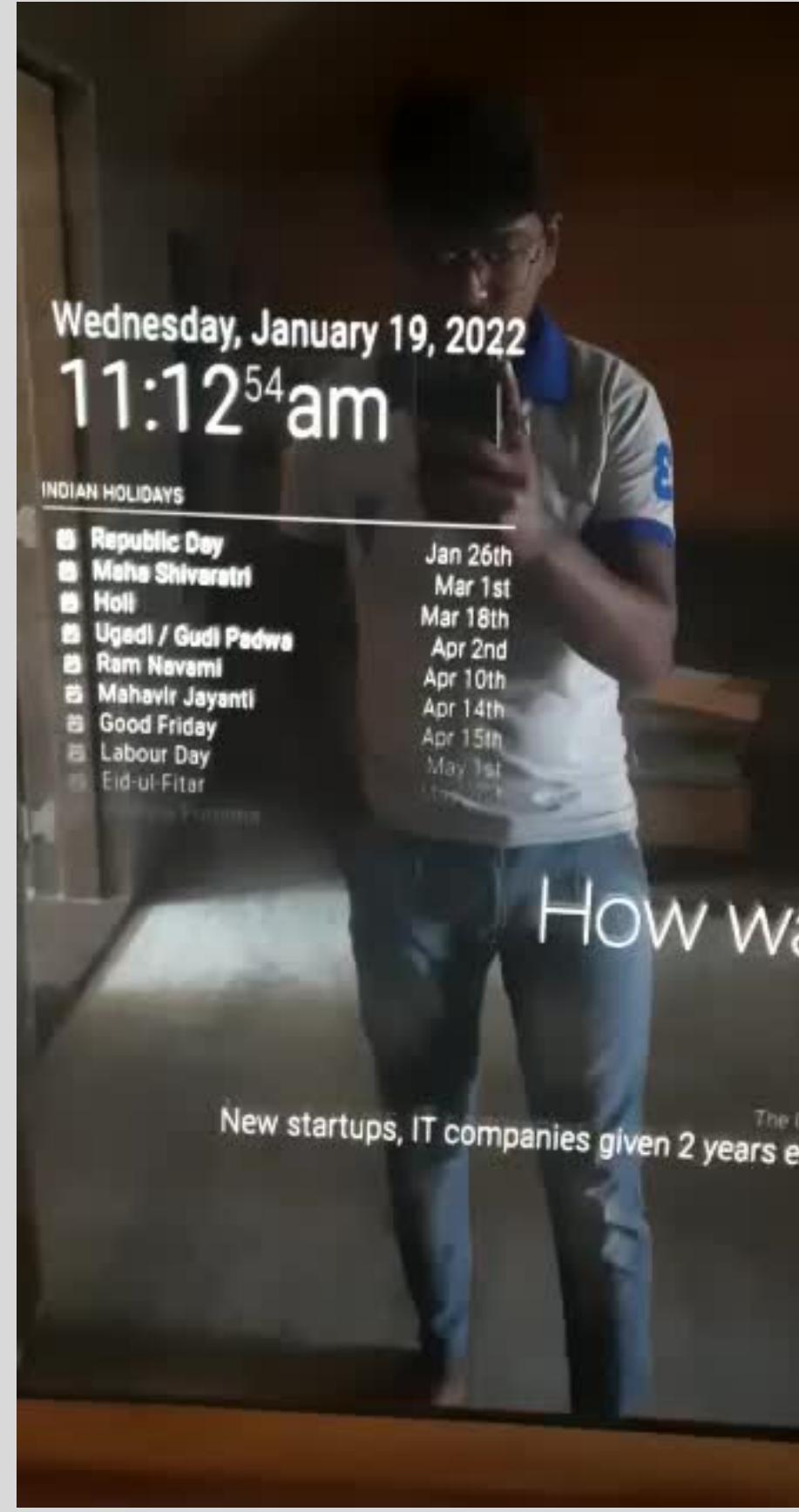
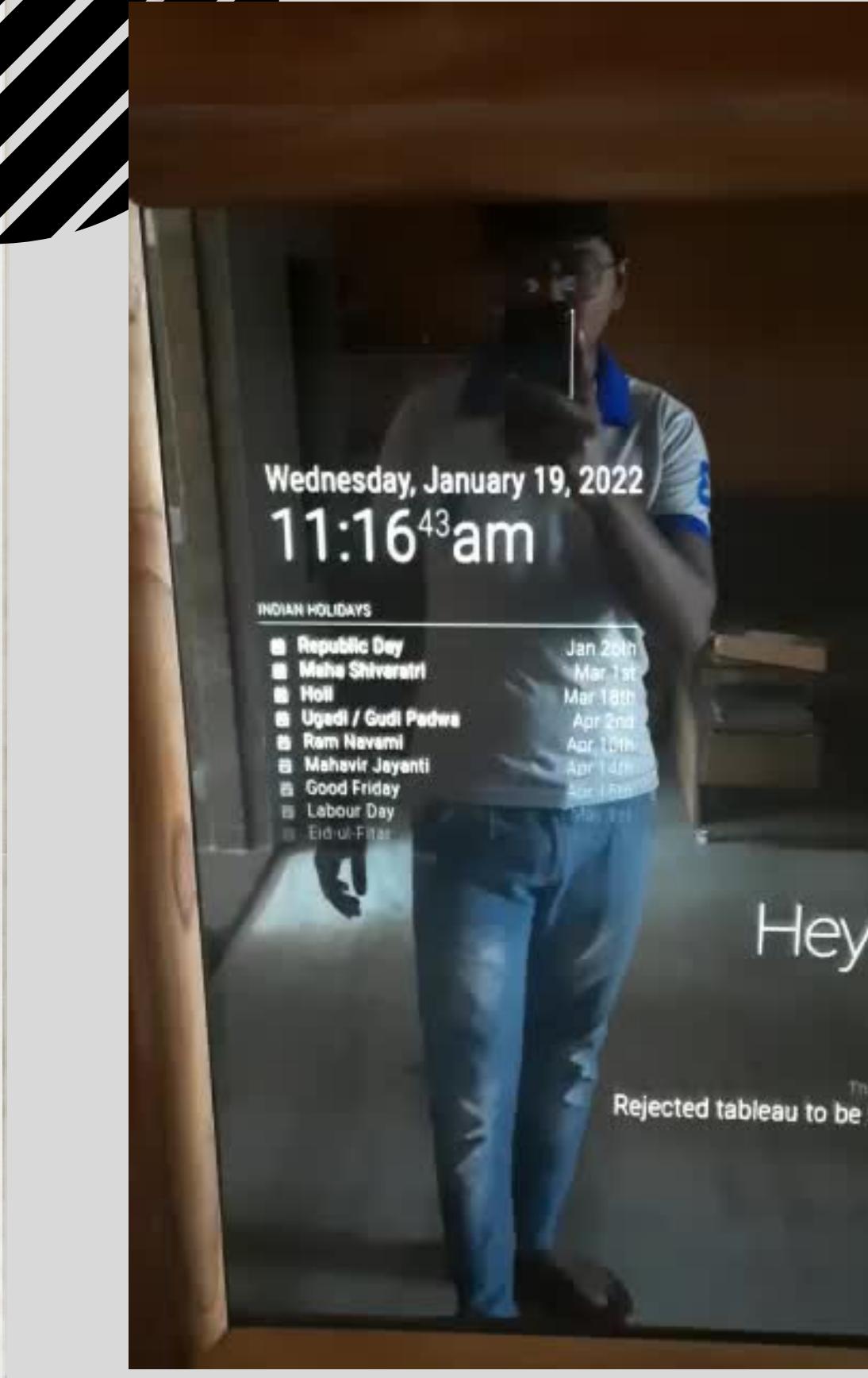
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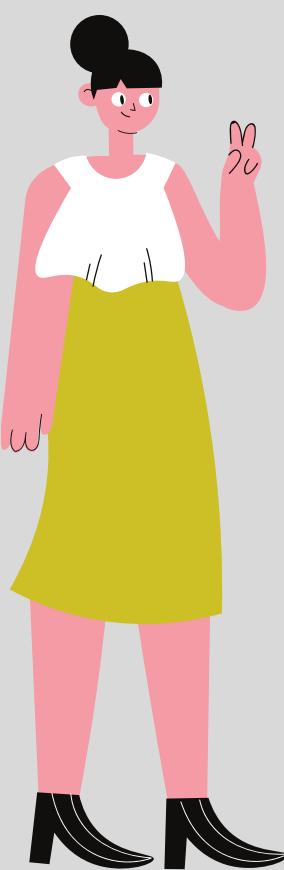
IMPLEMENTATION

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