The Smart Mirror

Ramya .S	*Yuvamalini. M*	*Saranya. S*
kumarudhaya444@gmail.com	*kumarudhaya444@gmail.com*	*kumarudhaya444@gmail.com*
Dhanalakshmi Srinivasan College of Engineering and Technology, Chennai, Tamil Nadu	*Dhanalakshmi Srinivasan College of Engineering and Technology, Chennai, Tamil Nadu*	*Dhanalakshmi Srinivasan College of Engineering and Technology, Chennai, Tamil Nadu*

ABSTRACT

In this paper, we describe the design and development of a futuristic mirror that offers simplified and customizable services to the home environment. The mirror interface provides users with the versatility needed for better management and integration of daily tasks. On a par with the recent advances in the Internet of Things standards and applications, the mirror is designed to enable residents to control the household smart appliances and access personalized services. The proposed system is set apart from others for its provision of various customized information services for user profile generation.

Keywords: *Internet of things, Raspberry Pi, Smart Mirror.*

1. INTRODUCTION

The Future of Mirrors is here Smart mirror is basically a one-way mirror. Made "smart" by a simple LCD display which sits behind the mirror and displays white UI elements with a black background. When the display is on, we can see both our reflection and the white elements, allowing software to present relevant information while you get ready for the day. Beyond taping our handsets to our bathroom mirror, are there any smart mirrors out there. The short answer is not quite yet. There are a lot of concepts and prototypes being built but so far there's not a lot out there for the everyday consumer.

1.1 Primitive mirror

The first mirrors used by humans were most likely water collected in primitive vessels or simply dark pools of still water. Eventually, mankind started making mirrors out of polished obsidian and stones, then polished metals so on until we get to the modern mirror. But for all the improvements in the manufacturing of mirrors, not much has changed about them in terms of how they function in a home. Generally, they are still simple reflective surfaces that we use for grooming, decoration and the occasional interrogation room

1.2 Methodology

The methodology is very simple a microprocessor called raspberry pi is required, to which the LCD is
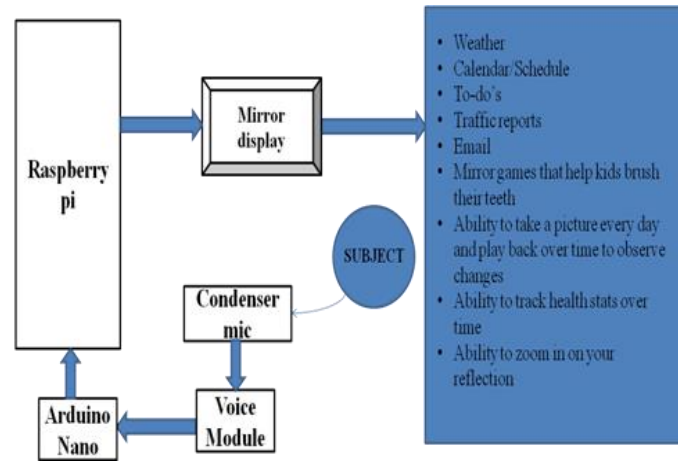
Fig.1. System Architecture

Connected. Over this LCD a one-way mirror is attached which acts as a reflective surface. So this completes our basic setup. Further, a voice recognition module is attached to make mirror a voice-controlled one. The above block diagram fig 2 explains the setup in a simplified manner. Further, the fig.3 shows the actual setup.

Fig.2. Actual project

2. CONCLUSION

The system proposed by us detaches the smart mirror from being a small part of a big device in the IOT. We make it smaller and easier to obtain it, for all people. The system makes it affordable for consumers to buy and use a smart mirror for local homes and to use it for simpler things. Our proposed system makes the smart mirror technology cheaper for all of us.

3. REFERENCES

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