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Survey of Fashion Mirror

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Abstract -Our project, the Fashion Mirror, seeks to fill the need for a customizable, passive display of information in the home, to host everyday information from the time to appointment reminders. Powered by a Raspberry Pi microcontroller and displayed on a used computer monitor, the Mirror is a simple and inexpensive means of displaying information. The project was divided into roughly five phases: Design, Processor Programming, Display Programming, and Fabrication, IoT based Automation. In the design phase we made the technical and aesthetic decisions that would inform the course of the project, and for the following two phases the bulk of the work was involved with programming and other electronics tasks. In the fabrication phase we pulled together all the separate elements into a well-constructed wooden frame. Finally, we are implanting Automation by using voice command to make our mirror more interactive.This inexperience has allowed as to learn several lessons as they relate to both the technical and project management aspects of the Fashion Mirror project.

Key Words: **Fashion Mirror easy to try various clothes very quick so it is less time consuming and gives feedback to the user.**

1. INTRODUCTION

Fashion mirrors are straight from science fiction. They're part of an optimistic vision of the future that imagines a world where screens and data are everywhere, ready to feed you whatever information you need at a moment's notice. Basically, the mirror is looks like normal mirror but when someone stand in front of it the scene changes. The mirror provides a functional, user friendly and interactive UI to its user for accessing their social sites, messengers, etc. It has widgets for displaying the current whether conditions, Time, Events, Latest news headlines The Smart Mirror would help in developing smart houses with embedded artificial intelligence, as well as finding its applications in industries. Switching home appliances becomes easy with mirror. Virtual dressing, a smart way of having trials with your fashion sense make things quite easy in malls. Having such intellectual mirror will only surge the beauty of home. The raspberry pi is programmed using python and connects to a monitor with inbuilt speaker so as to provide an onscreen interface and voice assistance as well.This device allows users to access and interact with contextual information, such as weather data, seamlessly as part of their daily routine. It consists of a transparent mirror and a screen behind the mirror. It shows important updates so the words appear to be floating on the reflection of the mirror. Updates can include the weather, calendar events, news, and social media notifications. To show that information, a display must go behind the mirror. This can be a TV, computer screen, or tablet. Framed and frameless styles are both popular, depending on the style of the living space.

1.1 Problem Statement:

Over 1 million #selfies are taken every day with 30% of photos taken by people between the ages of 18 and 24 being a #selfie In total, 28% of time spent online is on social media. According to a TODAY/AOL survey, women spend an average of 6.4 hours/week while men spend 4.5 hours/week working on their appearance. The Fashion Mirror is a system that combines these tasks in an efficient and enjoyable way to provide time savings for the user. It also controls the appliances, by voice command and also gives feedback to user for their appearance.

1.2 Aim

To develop interactive, user friendly Fashion mirror.

1.3 Objectives

The objective of this project was to design and prototype a device that acted as a Fashion Mirror" by displaying the user's image and providing customizable information on the display. A "Fashion Mirror" is a device that acts as a traditional mirror while also superimposing informational data, which can be customized by the user. The mirror also allows for voice command for user interaction with some of the data displays. Users are able to drag or open the dresses which they select through voce command as we all they can control electronics/electrical appliances by voice command.

2. Block Diagram of Fashion Mirror

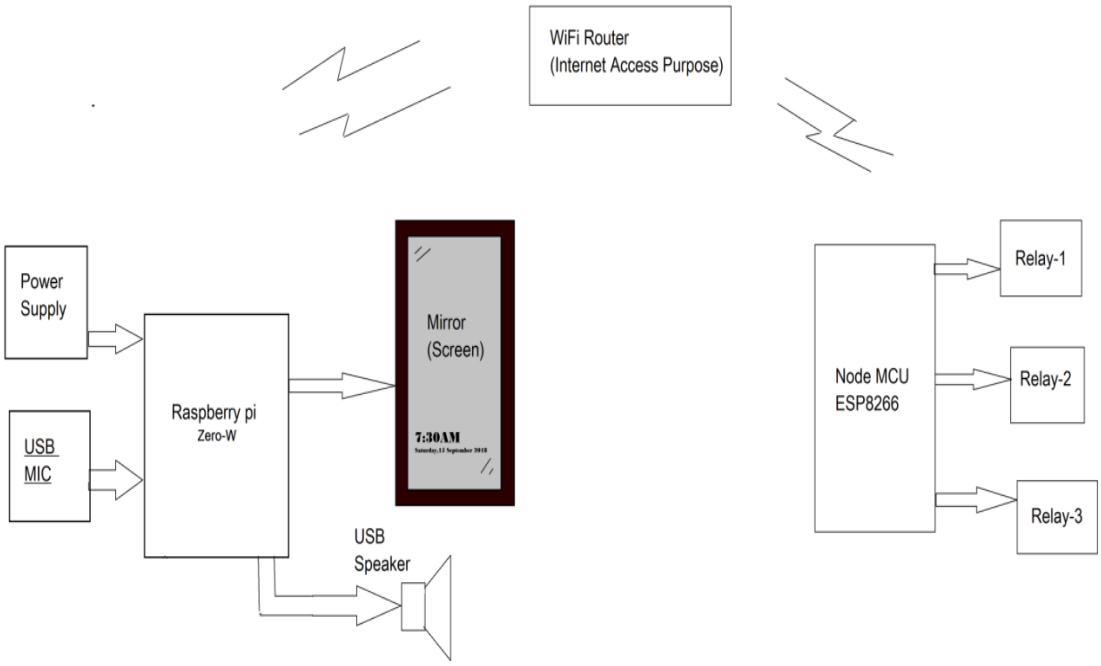

Fig.1 Block Diagram Of Fashion Mirror

3. Block Diagram Description

We are using microprocessor raspberry 3B model which is heart of our project

USB Microphone: USB Microphone which is Quantum modelUsb mic is used in the fashion mirror for communication purpose means to give instructions to mirror

USB SPEAKER: USB Speakar is use to speak or ask what I should wear and which dress suits on me

LCD MONITOR: Liquid crystal display (LCD) connects to a mirror from by back side

Node MCU**:** Which includes firmware which runs on the ESP8266 Wi-Fi Module from Espress if Systems and hardware which is based on the ESP-12 module.

4. Future Scope

- Browsing and product pre-selection is easier and more efficient with the ability to see a broad range of products in one place, including product that may be out of stock. Customers can also see how styles and colors will look, and they can save their combinations to eliminate guesswork and easily review their choices.
- Customers can order selections in the store for home delivery
- Retailers can increase basket size by offering an extended range of products and accessories in one place, and by offering expert recommendations.
- Expert and social recommendations can boost sales conversions. In addition, the abilities to try on more styles, instantly buy online, and ship products to home increase shopper convenience.
- Retailers gain insight into shoppers' choices, such as their "likes," the products they try on, and data from products purchased.

5. CONCLUSION

Above paper is survey of fashion mirror,Pre-selection of clothes is easier and efficient to both user and retailer because their misuse of cloths is reduced, easy to try various clothes very quick so it is less time consuming and gives feedback to the user.It is power efficient, interactive and user-friendly

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