

# Study On Digital Jewelry

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**Abstract-** Jewelry adorns the body and has little sensible purpose. The mix of small pc devices and power has allowed many firms to start manufacturing the digital jewelry. Digital jewelry will be outlined as wireless, wearable computers that enable the user to speak through email, voicemail. Everything technologies that we use now usually have a separate password or pin which is also used in digital jewelry for security purpose. This paper also discuss about new digital java ring which is based on Java which is used to automatically unlock doors. They may have the strength to be the replacements for your driver's license, key chains, credit cards, business cards. It can even solve forgotten passwords. This allows communication via wireless application and to remain modern at equivalent time.



## I. INTRODUCTION

Many miniature devices are developed because of the huge growth in technology which allows people to do things with ease. This technology has become a versatile tool for learning and leisure purposes because of the rapid use of these portable technology and their multiple functionalities in assisting the people to engage with other useful activities.

The ability to equip the individual with personalized and customizable information becomes a fundamental issue in wearable computers. Wireless computers are going to be the maximum used technology of the next generation. Digital Jewelry looks to be the next fashion trend of the generation in this digital world. Small devices are made by placing millions of transistors on a microchip by manufacturers that can store tons of digital data. Digital Jewelry is emerging to be one of the biggest growing promotions of its time. Digital Jewelry

will be evolution in this digital era that makes computer elements entirely compatible with human form. Communications through e-mail and voice mail are also possible by this technology[3].



## II. COMPONENTS OF DIGITAL JEWELRY

The different elements within the mobile phone like mike, Receiver, Touch pad, Display, card, Antenna, Battery are their basic elements which is able to then packed as totally different devices in digital jewelry. "To piece the varied elements and create the user to access it simply and wear it" is that the basic conception of digital jewelry.

**EARRINGS:** Speakers which embedded into these earrings will act as a phone receiver. Now the research is going on to inbuilt Bluetooth in these earrings which will bring huge impact towards these earrings and digital jewelry.



**NECKLACE:** The embedded microphone and the voice recognition software inside the necklace help the user to talk through it.



**RING:** The LED which present in these rings will indicate the incoming calls. To identify the particular call or the importance of the call it can be programmed to flash different color



**BRACELET:** Video graphics array display in these bracelets which flashes the name and the phone number of the particular caller can be used for caller identification.



### III. WORKING OF DIGITAL JEWELRY:

In Digital jewelry the functions of keypad and dialing is inbuilt into the bracelet. To make calls the voice recognition software can be used. Just by mentioning the name of the person, it make call to that particular person. The microphone embedded in necklace helps the user to talk through the necklace. The information which we say will be transferred to signals. The sensors in these device helps to transfer information through Bluetooth. The prototype of the cell phone is designed by the IBM which consists of different parts of the digital jewelry which will work through Bluetooth. To power these devices IBM has designed the miniature rechargeable battery. These devices generally consist of a screen to display information which is normally a LCD screen. These devices also have an audio, speaker, flashing light and sensor. The face of device will generally be the display part which is enclosed by plastic or other materials. Switches and

buttons will be in the external layer. The internal part is the micro controller with some resistors and capacitors[2].

### IV. APPLICATIONS OF DIGITAL JEWELRY

The applications of Digital Jewelry are

1. Java Ring
2. IBM Ring

**JAVA RING:** Finger ring contains a little chip with abilities for the client. Java ring is a brilliant device that is wearable on finger. Its a hardened steel ring,16 mm in width. What's more, its incredibly secure Java controlled electric token.[1]



**IBM RING:** Mouse ring It utilizes the IBM track point innovation like the one implanted in PC console to remotely move cursor on PC screen .It has a little debase which resembles a pearl the client will pivot or pivot to move the cursor.



### V. ADVANTAGES

1. **Portability:** These devices are mostly used while walking . This specific element recognizes wearable PC from work area to advanced adornments
2. **Sensors:** It has sensors for its physical environment .Such sensors might include wireless communications, camera or microphones.
3. **User Attention Free:** It is unrestrictive to the user. The user shall be able to perform their day to day activities.
4. **Freedom from Desk:** A wearable computer is a wireless device

## VI. LIMITATIONS

1. The cost of these digital jewelry's are extremely high which can't be afford by everyone[5]
2. Continuous usage of these digital jewelry may harm your health.

## VII. CONCLUSION

The idea driving this is to have a brilliant gadgets which are remote and dependably on while staying alluring to individuals. It is only broken bits of segments inside the cell phone which are repackaged as an adornments that can be exhausted. We are moving in to the fifth era PCs which are compact and little enough to be a piece of individuals' dressing.

## REFERENCES

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