Abstract
The lodgings are quickly developing business in todays condition. The vast majority of the individuals like to eat in the inns inorder to invest their recreation energy in a more joyful manner. So as to make the feasting in a more practical and getting a charge out of way we present to you the most digitized method of the experience that you have ever got previously. Our venture presents to you the practical way by utilizing the augmented simulation of requesting the dishes. Inorder to diminish the time utilization we have utilized the augmented experience with camera. The menu is introduced in the gadget and the gadget will be set on each client table. At the point when the clients pick the ideal menu the menu will be sent to the kitchen. The unit will be set in the client side just as in the kitchen side. The bill can likewise be handled simultaneously. In this manner the ideal request of the client will be set in the new manner in the feasting field.

Keywords: Virtual Reality,Microcontroller,wireless sensor Networks

Introduction
Virtual reality(VR) implies encountering things through our PCs that truly don't exist. Augmented Reality is viewed as the high-finish of human PC collaborations and it can possibly focus on a wide scope of utilizations. It is a counterfeit situation which is experienced through tangible improvements, for example, sights and sounds gave by PC and in which one's activities somewhat figure out what occurs in the earth moreover. It can likewise be characterized as an intelligent PC created experience occurring inside a reenacted situation. It consolidates essentially hear-able and pictorial input, yet may likewise document different sorts of perceptible censure like tactile. This intense ailment can be like this present authenticity or it can be phantastic. The improved simulation incorporate transmission of vibration and other sensation utilizing the regulator we have in our grasp, subsequently the computer generated experience makes the client more euphoric and offers satisfaction to the client. The computer generated experience will be utilized in numerous fields as they are the advantages of the cutting edge condition. They are mostly utilized in gaming application.
SYSTEM ARCHITECTURE
The proposed system architecture is illustrated in Fig. 2 and Fig. 3.

Figure 2: Spreader Analysis

The Transmitter area comprises of a Virtual reality detecting framework associated alongside a remote sensor system and LCD.

The Receiver area comprises of an Arduino regulator associated alongside a remote sensor system and LCD.

III. A REALISTIC MENU ORDERING IN HOTEL USING VIRTUAL REALITY:
The fundamental capacity of this framework in inn utilizing computer generated reality is the better approach for requesting the menu. These are generally exceptional and wide scope of tasks are being followed. The development of these innovation gets the change the inn so the client will get pulled in towards these novel thoughts. They will get another eating experience. These are helpful to the clients and furthermore for the laborers since they can limit the requesting time during top hours and in celebration season.

A. VIRTUAL REALITY
Augmented reality just methods a PC innovation that utilization programming to deliver the reasonable pictures, sensations and different sounds that imitate a genuine situation and invigorate a client's physical nearness in this condition. Augmented Reality just methods the powerful
collaboration of human and machine. This expects to past the norm of collaboration with mouse and console which we are doing it on our regular schedule. This is unnatural way, which compels us to adjust to the requests of innovation. Yet, the virtual does absolutely inverse. It permits somebody to completely inundate in the profoundly visual world.

IV. HARDWARE PRINCIPLE
A. VIRTUAL REALITY SENSING SYSTEM:
Augmented Reality needs fast obvious part is the head-mounted presentation (HMD). Entities are pictorial animals, and show invention is often the sole greatest dissimilarity between bright Near Authenticity backgrounds and straight UIs. For example, CAVE planned cybernetic circumstances efficiently show virtual ingredient onto room-sized shades. Ideas such Google Cardboard, Samsung Gear VR and Epson Movario are pouring the road yet there are likewise players like Meta, Avegant Glyph, and Magic Leap who may surprise the commercial with new steps of flood and suitability. Whomever ends up as a winner, the smoothness of obtaining a cover measured implement that can work in a shop, office, or dispensation plant floor has made HMDs all significant pivotal point.

B. PIC MICROCONTROLLER
PIC is a collection of microcontrollers complete by CPU Technology, become from the PIC1650 originally shaped by Over-all Device's Microelectronics Separation. The designation PIC at first referred to Peripheral Border Organizer.

![Figure 4: PIC Microcontroller](image)

FEATURES:
8kb of glimmer program memory.

- 368 bytes of Data memory.
- 15 Interrupts.
- 3 Internal Hardware Timers.

APPLICATIONS:
Audio accessories
Video games

C. WIRELESS SENSOR NETWORK
A distance wireless sensing by the distance scheme embracing region diverted real individual-scaling equipment’s making detection from the components. A sensing joins a door that gives remote network back to the wired world and dispersed world. The remote convention relies upon application necessities. A portion of the accessible guidelines incorporate 2.4GHz radios dependent on either IEEE 802.15.4 or IEEE 802.11 (Wi-Fi) norms or exclusive radios, which are generally 900 MHz. Presently
WSN is the most standard administrations utilized in business and modern applications, in light of its specialized improvement in a processor.

![Wireless Sensor Network](image)

**Figure 5: Wireless Sensor Network**

The sensor circuit specify open system interconnection modeling equipment’s. The technology based sensing involves five different services layers and three cross layers. For sensing we need normally five layers, exactly application, transport, organize, material interface and physical layer. The different cross planes are definitely power the board, transportability the executives, and enterprise the board.

**Layers Of WSN Architecture**
- Application layer
- Transport layer
- Network layer
- Data link layer
- Physical layer

**D. LCD DISPLAY**

A Liquid gem show is a level board show or other electronically balanced optical gadget that utilizes the light modification. Fluid gems don't radiate light straightforwardly, rather utilizes a backdrop illumination or reflector to deliver pictures in shading or monochrome. LCDs are accessible to show discretionary pictures or fixed pictures with uninformed substance, which can be shown in CRTs. The presentation is fundamentally utilized for showing the info and yield of the framework. The LCD covers register data and command list. It contains 8 data lines 1 register choice pin and one approve pin. The position of the LCD begins from 0x80.

![LCD Display](image)

**Figure 6: LCD Display**
FEATURES

Cost effective
Energy efficient
Space economy
Lighter weight
Reduced radiation
Improved image quality
Long life

E. ZIGBEE MODULE

Zigbee is an IEEE 802.15.4 based grit for a set-up of substantial near communication resolutions done for the individual systems, less-power computerized receivers, for example, home computerization, experimental appliance info variety, programming items to basically happen the present prerequisite.

The different business accessible afta the market. They are Apprehension Growth System 12 by ScanSoft, Fine Reader 7.0 by ABBYY, by Novodynamics, programming uses Caere, and so forth. There are likewise the open area OCRs specifically and so forth.

and supplementary low-power less-data handover size needs, future for little choice ventures. Zigbee is essentially applied two pathway communication among a device and a rheostat outline. Like Bluetooth and Wi-Fi, it is a less range email and offers availability upto 100 meters. From the conflicting end, Wi-Fi and Bluetooth are tall information rate norms which uphold the chat of media accounts, and so on. It works at 2.4 GHz transmission capacity. It connects data at a quick range.

V. RESULT:

The menu chose by the client is sent to the information base which arrives at the culinary expert and showed in LCD show. Camera is utilized for catching the pictures clicked by the client. Laser is utilized for producing multi dimensional image in the table.

This undertaking gives an approach to diminish the client's the ideal opportunity for standing by to arrange their ideal menu. This framework is easy to use and quick which gets a change requesting framework and making the eating experience more successful for the clients. In future the nature of the picture can be improved in HD way. More number of dishes can be included and shown in the gadget. Headings can be appeared to bathroom by means of hologramic projection. Consequently by actualizing these highlights in future the client will think that its more helpful during their eating.

VII.REFERENCE


