

HAND HELD DEVICE FOR TOURIST

Komal Banswal, Vrushali Joshi, Prof. Komal Dandge

Student, Student, Assistant Professor

Department of Electronics and Telecommunication

Deogiri Institute of Engineering and Management Studies, Aurangabad

Aurangabad, India

Abstract : In India the tourist guide need to own license which is accepted by the Indian Ministry of Tourism to work officially. The government provides the license under Regional Level Guide Training Program (RLGTP) to regional level tour guide and also these programs is runs under guidance of Indian Institute of Tourism and Travel Management (IITTM). When a person visits the historical place then it needs to guide to give history or information of that place. Guide will charge for it but the benefit is not received to the government, so in this project this problem will overcome. The configuration of the project consists of Raspberry-Pi with an attached QR code. An audio guide provides a recorded spoken signal, normally through a device called as a handheld device, to a visitor attraction in historical place as well as museums. It work as a self-guided tours of outdoor locations. It provides the concept behind the thing being viewed. Audio guides are one or more language often and can be available in different ways. In different tour they may include music and interviews. This concept will improve the economy in our country which will helpful to make proper system in our tourist places.

I INTRODUCTION

The electronic guide is a device which is specially design to provide audio signal as well as video or text content to tourism visitor and museum visitor with or without user interaction. It may also provide different personal preferences corresponding to alternative content. It also includes accessories such as headphones, displays with LEDs or LCD screens and digital pen. These advanced guides may be operated to supply content in different languages and accents, with text, with different voice alternatives.

They can be operated in several ways:

- The scanning of QR code is done by the visitor. The visitor scans the code assigned to the object to the electronic guide and then it provide related contents.
- Location aware systems also used like GPRS. They sense the location of the device and gives the information to the authenticate person so, the identification of the device is also get. Location aware systems provide people better quality tours to disabled.
- Line Of Sight Systems operate automatically. They sense object and provides the related content. These systems may include software and interest areas and may provide deeper information for the object. These systems may need special technologies which scan and decode the target.

II LITERATURE SURVEY

Audio-based mobile technology is opening up a range of new interactive possibilities. This paper brings some of those possibilities to light by offering a range of perspectives based in this area. It is not only the technical systems that are developing, but novel approaches to the design and understanding of audio-based mobile systems are evolving to offer new perspectives on interaction and design and support such systems to be applied in areas, such as the humanities [1].The use of technologies is a project designed to improve visiting experiences for all types of audiences and making visits to the museum an even richer, more vibrant, satisfying and unforgettable experience. Using technologies is aimed at facilitating knowledge about its exhibits, and allows visitors to choose personalized tours while sharing and enhancing their

experience, both before and after the visit to the Museum. A total of 200 mobile TAGs (bidimensional codes similar to QR code) are deployed inside the Museum [2].

Web-based power systems analysis applications are delivered via web servers that run scripting languages such as PHP. The role of the web server is usually to pass results and data between a front-end web browser and specialized back-end computation software which carries out the actual simulations and analysis. The library may be easily included in PHP web applications that require specific power systems analysis functions thereby allowing them access this functionality without relying on third party software separate from the web server on which they already run. The performance of the application library is also measured and discussed [3].

The objective of this Bachelor's thesis was to develop a web-based library management system based on PHP and MySQL in order to reduce the cost of management and make it convenient for the user. The web-based library management system includes the most popular components a common library management system has, administration, book seeker, leasing and E-mail. Besides, it has more humanistic functions such as second-hand online book shop and top 10 ranking. The website was tested on some of the most popular browsers. The first result of this study was an understanding of the advantages of PHP and how MySQL benefited a large project. The second result was building practical PHP and MySQL projects based on a web server on Windows 7 ultimate [4].

III SYSTEM DEVELOPMENT

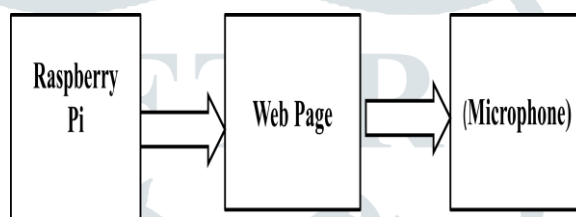


Figure 1. Block diagram of proposed system

Above Figure shows the block diagram of proposed system. It includes various blocks such as Raspberry Pi and Microphone. All PHP pages are executed on the server. When a person visits on your PHP page with their web browser, the web server opens and it reads PHP script. It then prepares an output to send to the web browser. For this reason, PHP pages are including in the database. These are the typical aspects of your site that you want to hide from the public and it is secured. These PHP pages also frequently handle form submissions as well. Raspberry Pi will recognize that which audio to be play and then using output device such as headphone user get the output. Following are the component used in the proposed system,

- Hardware
 - Raspberry Pi 3 model B+
 - Web Page
 - Microphone

- Description

- **Raspberry Pi 3 model B+:**

The raspberry pi developed in the United Kingdom by the foundation of the raspberry pi computers developed to promote teaching on the basic of computer science in the developing countries.

In Raspberry pi includes various parameters which is given as:

Raspberry pi includes the 700 MHz ARM11 processor, graphics processing unit, and random access memory. It includes level 1 (L1 cache memory) of 16 KB and a level 2 (L2) caches of 128 KB. The cache memory level 2 is used by the graphics processing unit. Clock rate of a Raspberry pi is high.

- **RAM**

The RAM for Raspberry Pi 2 and the Raspberry Pi 3+ is allocated 1 GB .On the older Model B boards, 128 MB were allocated by default to the GPU, leaving 128 MB for the CPU.

- **Operating systems**

Various operating systems can be such as raspbian installed on a SD card different SD card is available such as Micro or Mini SD card for the Raspberry Pi .This operating system is depends on the board, at bottom of Raspberry Pi board Micro SD slot is provided.

Features

- Bluetooth 4.2

- 1GB SDRAM.

➤ Web Page

A Web page stands a World Wide Web. Web page is a document which is written in a HTML language. Web page is access by the web browser and this web page is display on monitor or mobile phone. The web browser uses the HTTP. It is a Hypertext Transfer Protocol which sends request to the server.

Web Page contains the information such as color text, backgrounds Hypertext markup language provides separate files.

A webpage can be access through the Internet or other networks using an Internet On a web page we can store the all information in form scripts. Web Page is accessed by entering a URL address and it contains text, and graphics.

✓ Features

- It is an interpreted language.
- Open source means you no need to pay for using PHP, you can free download and use.

✓ Microphone

A microphone is an electronic device or handheld device. It easy to operate in the hand and hold it .Typically, this handheld device consist of various element such as LCD or LED screen , touch screen for interfacing with physical buttons and keyboard, and digital buttons along with keyboard .

Modern handheld device can available features that user include digitizing notes, send or receive recording, video, audio. This computing device provides scanning barcodes.

User can watch TV on mobile phone through internet. This handheld device or mobile device provides multi-party conferencing.

✓ Features

- A battery, providing the power source for the phone functions.

✓ Algorithm

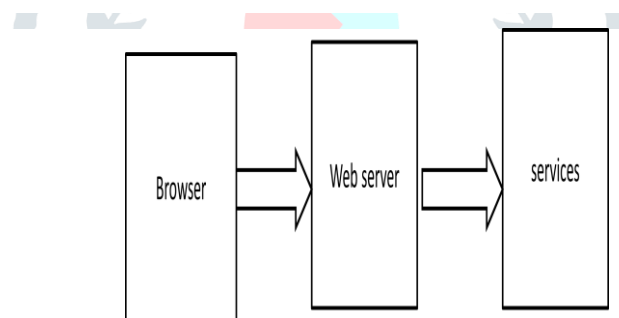


Figure 2 Algorithm

A browser, short for web browser, is the software application that provides the all information of historical places. when IP address enter in the browser then open web page it gives two option guide and upload ad The web page shows the output of historical place information in the form of audio and video on the android phones. Mobile phones are used to produce audio by using microphone and videos by using display.

IV CONCLUSION

All in this entire project achieved a lot of its goals. The project has to be implemented for low cost, low power, less effort, using handheld device .lists of accomplishment include portability, reliability and reading the information from the web page and also system is easily accessible. Direct information of the places will be provided by the device. Therefore there is No need of guide.

Application

- It used in historical places.
- It used in museums.

Advantages

- Records are kept safe and confidential.
- Information is passes to the data base connected to the system which completely accurate.

Future Scope

- It can be access through voice command.

- Image processing concept will be including in this Project.

V REFERENCES

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