

General Article

Implementation of Medical Test Security System

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Abstract

Medical test security system is a major factor in our society especially this system is used for special purpose like inspection of many healthy man powers for a specific organization. In this project software is implement which is useful for detection of healthy man power to avoid the wrong way entry in Army, Navy & Air force i.e. Gov & Non Gov sector. In this system first of all candidate registration should be done in this registration candidate firstly give their home address and age. By using thumb pad we take his finger print for identification this candidate information saved in computer where three tests will be performed physical test, blood test and x-ray test. When candidate go for blood test here finger print is taken then fill up the detail of candidate. Then next test will be performed then details of all test of that candidate save in the form of barcode and also save in server. This server is under high authority. Then print out is taken out from printer.

Keywords - Barcode Scanner, Thumb Scanner, Printer, Data Mining (DM), Knowledge Discovery in Database (KDD), Data Link Library (DLL)

Introduction

The IT industry in INDIA has today become a growth engine for the economic, contributing substantially to increase the economy of our country. Indian forms across all other sector largely depended on the IT and IT's service provides to make their business processes efficient and string line. The Indian manufacturing sector has the highest IT spending followed by automotive, chemical, biomedical and consumes product industries. Following are the other sectors that also need the software and hardware base product such as Banking, Biomedical and biotechnology, Education and trainee, Pharmaceuticals.

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NASSCOM except the IT services sector in Indian to grow by 13 to 14% in 2013-2014 and to touch US dollar 225 billion by 2020.Indian total IT industry including the hardware share in a global market stunt at 7% the IT segment in a software base product covers the major area in the country. The structures are as follows: Section I include information about Indian medical and biomedical technologies. Section II include block diagram of medical test security system that show implementing of software on medical test of candidates. Section III show software and hardware requirement of the system. Section IV contains information about database. Then we provide the conclusion of Section VI.

Medical and biomedical technology in India

Medical and biomedical technology deals with the application of biological, medical and medical security knowledge and techniques to the molecular cellular accurate and security process to develop significantly into the product and services. The applications of such type of product are used for biomedical, biotechnology, agriculture, medicine technology and medical biotechnology. The Indian medical and biomedical technology sector is one of the fastest growing knowledge base sector India and each excepted to play a key role in shaping the India's rapidly developing economy in fact India has been rank among the top 12 medical and biomedical technology destination worldwide and third largest in a Asia specific region.

The medical and biomedical technology sector in India is expected to achieve a revenue of US dollar 11.6 billion by 2017 growing pattern compound and annual growth rate of 22% according to recent report by ERNST and young (E&TC) investment allow with the outsourcing activities and export are key driver for the growth in the medical and biomedical technology sector. Some of the major investment in this sector is as follows.

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a) Bharat biotech launch: The world First clinical prove software to secure thyroid vaccine.

b) In India the medical organization that provided on pathology base service for any government and non government agency.

- c) Some example Dr. Reddy Laboratory's cipla.
- d) Dr. Tripathi Labs (Kolkata) etc.

Block Diagram



Fig. 1: Block Diagram

User from anywhere being GSM available can make a call to system to check the status of appliances or control them as describe in fig III. System in return checks the authenticity of the number and if it is from the preconfigured number then it follows the instruction otherwise it discard the call. As Computer receives a call timer starts and it automatically discard the call after few seconds. The voice is understood by the Microsoft speech reorganization engine that is installed in the system. If the command is about changing the status of appliances it passes the signal to parallel port to follow the instruction like turn the appliances on or off. This can be done through relay based circuit. If command is to check the status of appliances the system returns the voice message to preconfigured number using AT Commands telling the status of appliances.

Software and Hardware requirement

Software

DOT NET Frame work 4.0 with visual studio 2010-12 with DLL files.

- CWAIN.DLL
- CISFORM.DLL
- BARACC.DLL
- REGT2.DLL
- NETS.COM.DLL

Hardware

Thumb reader with SDK, Barcode reader, Printer

Database

The rapid increase in the data available leads to the difficulty for analyzing those data and different types of framework are required for unearthing useful knowledge that can be to extracted from such databases. Data mining is actually an integral part of Knowledge Discovery in

Database (KDD) process, which is the overall process of converting raw data into useful information.

Results

This project gives the status of test of a human being and stores the data into the server which is much authorized. It gives the perfect implementation of every steps followed in this project.

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Fig. 2: Final Result Window

Conclusion

Medical test security system for implementation of test security system is the main contributions of this proposed paper. The MTSS is better than other test security system as server is under high authority and it is going to be fruitful in saving the time in case of large database. Our current systems overcome all the short-comings of all the security systems and capable of obtaining efficient result.

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Biographies

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