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# Health Impact Assessment Using QR Code

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***Abstract*** *— Long latency needed for emergency responders to arrive may be a primary reason behind magnified fatalities in serious accidents. a technique to scale back this latency is to scale back the number of your time it takes to report AN accident. Smartphone's are present and with network property are excellent devices to right away inform relevant authorities regarding the prevalence of an accident. We have a tendency to are coming up with AN mechanical man application which can be helpful for peoples to assist different peoples WHO are laid low with incident like accident. it'll facilitate U.S.A. to save lots of the accidental person. Project is style for AN accident detection system. The accident detection systems inform the police room regarding the accident by clicking icon of accident. The appliance recommend close hospitals and police stations list in application. FIR is generating by police office and sends copy to the revered hospital system. Revered hospital scan user QRCode and supply treatment per info. Conjointly send emergency SMS to user's pre register mobile variety*

***Keywords- GPS, mobile interaction, QR-Codes.***

## I.INTRODUCTION

A QR code may be a kind of barcode that may hold a lot of info than the acquainted kind scanned at checkouts round the country. The "QR" stands for "quick response," a relevance the speed at that the big amounts of knowledge they contain is decoded by scanners. They were unreal in 1994 in Japan and ab initio used for chase shipping. Because the code is simply decoded by the camera of sensible phone, this technology is progressively accessible to the typical person. Rather than chase automotive elements and packages, the codes is accustomed store info of user. A QR code acts as a link embedded within the globe, desegregation it with the virtual pc world. the event of a transportation has been the generative power for people in general to possess the best civilization on top of creatures within the earth. Automobile features a nice importance in our existence. We have a tendency to utilize it to travel to our work place, detain bit with our friends and family, and deliver our product. However it will also bring disaster to U.S.A. and even can kill U.S.A. through accidents. AN accident may be a deviation from expected behavior of event that adversely affects the property, living body or persons and also the atmosphere. Move is primary concern for everybody. Recent advances in automaton square measure one amongst the foremost widespread sensible phone platforms at the instant, and also the quality is even raising. In addition, it's one amongst the foremost open and versatile platforms providing software package developers quick access to phone hardware and wealthy software package API. Smartphone technologies square measure creating it potential to reduce the death rate that square measure happening by vehicle accidents in an exceedingly a lot of transportable and price effective manner than standard in-vehicle solutions.

## II.LITERATURE SURVEY

**1. TITLE:** Using Smartphones to Detect Car Accidents and Provide Situational Awareness to Emergency Responders.
**Published by:** Chris Thompson, Jules White, Brian Dougherty, Adam Albright, and Douglas C. Schmidt
This paper shows however smartphones in a very wireless mobile device network will capture the streams of information provided by their accelerometers, compasses, and GPS sensors to supply a conveyable "black box" that detects traffic accidents and records knowledge associated with accident events, like the G-forces (accelerations) practised by the motive force. we tend to additionally gift Associate in Nursing design for sleuthing automotive accidents supported WreckWatch, that may be a mobile client/server application we tend to developed to mechanically discover automotive accidents. Figure a pair of shows however sensors engineered into a smartphone discover a significant acceleration event

indicative of Associate in Nursing accident and utilize the inbuilt 3G knowledge affiliation to transmit that info to a central server. That server then processes the data and notifies the authorities similarly as any emergency contacts.

**2. TITLE:** Design and Realization of the Accelerometer based Transportation System.

**Published by:** Deepak Punetha, Deepak Kumar, Vartika Mehta

An accident could be a deviation from expected behavior of event that adversely affects the property, living body or persons and also the surroundings. Security in vehicle to vehicle communication or travel is primary concern for everybody. The work given during this article documents the planning of Associate in Nursing accident detection system. The accident detection system style informs the police room or the other emergency occupation system regarding the accident. Associate in Nursing measuring instrument sensing element has been wont to sight abrupt modification in g-forces within the vehicle attributable to accident. once the vary of g- forces comes beneath the accident severity, then the microcontroller activates the GSM electronic equipment to send a pre-stored SMS to a predefined telephone number. additionally a buzzer is switched on. the merchandise style was tested in numerous conditions. The check result confirms the soundness and reliableness of the system.

**3. TITLE:** Implementation of an Android based teleoperation application for controlling a KUKA-KR6 robot by using sensor fusion.

**Published by:** Juan C. Yepes, Juan J. Yepes, Jos´e R. Mart´ınez, and Vera Z. P´erez

Tele-operated systems are employed in various medical specialty applications, from the rehabilitation of patients, the management of biological risky material and drugs storage, to minimally invasive surgery. This paper, introduces associate automaton OS (operating system) primarily based application that communicates with associate industrial automaton Kuka KR-6 through USB to Serial affiliation, to manage it with the on-board accelerometers, and gyroscopes of a pill or smartphone, supposed to be employed in telemedicine procedures. Arduino Uno microcontroller board, RS232 Shifter SMD and mobile device were accustomed develop this work. to judge this technique a survey was finished engineering connected users.

**4. TITLE:** Mobile Application for Automatic Accident Detection and Multimodal Alert.

**Published by:** Bruno Fernandes, Vitor Gomes, Joaquim Ferreira and Arnaldo Oliveira

This paper presents HDy airplane pilot, Associate in Nursing robot application for accident detection integrated with multimodal alert dissemination, each via eCall and IEEE 802.11p. The projected accident detection algorithmic rule receives inputs from the vehicle, via ODB-II, and from the smartphone sensors, particularly the measuring instrument, the meter and also the rotating mechanism. The robot smartphone is additionally used as human machine interface, in order that the motive force will configure the applying, receive road hazard warnings issued by different vehicles within the neck of the woods and cancel counting procedures upon false accident detection. A model implementation was valid via laboratory tests.This paper presents HDY airplane pilot, Associate in Nursing robot application for accident detection integrated with multimodal alert dissemination, each via eCall and IEEE 802.11p. The projected accident detection algorithmic rule receives inputs from the vehicle, via ODB-II, and from the smartphone sensors, particularly the measuring instrument, the meter and also the rotating mechanism. The robot smartphone is additionally used as human machine interface, in order that the motive force will configure the applying, receive road hazard warnings issued by different vehicles within the neck of the woods and cancel counting procedures upon false accident detection. A model implementation was valid via laboratory tests.

**5.TITLE:**Performance Analysis of Maximum Length LFSR and BBS Method for Cryptographic Application.

**Published by:**N.S.Abinaya, P.Prakasam

In this paper, 8, sixteen and thirty 2 bit most length LFSR which can supply the foremost states of PN sequence has been enforced . to boot given the comparison of performance analysis of 4 bit LFSR and sixteen bit BBS supported synthesis and simulation result on FPGA victimization hardware descriptive language(HDL) with most length feedback polynomial to know the planet, speed and power demand. The target device we have got used is Xilinx Virtex6 XA9572XL FPGA and performed simulation and synthesis victimization Xilinx ISE twelve.l. FPGA might be a predesigned reconfigurable. it is the power to reconfigure its equipment for a desired application or operate at any time once manufacturing. it's associate adaptive hardware that endlessly changes in response to the pc file or method atmosphere. The FPGA configuration is generally defamed using a hardware description language (HDL), virtually like circuit (ASIC).FPGAs are accustomed implement associatey logical operate that associate degree ASIC can perform. owing to varied blessings and quick model development can potential, therefore FPGA is chosen.

## III.EXISTING SYSTEM

Existing system contain lots of defect. In existing system user need call police station and hospital individually. Then police station register FIR. Unless and until police station finish its process hospital can't proceed further. After finishing FIR process, hospital admit the injured person. There isn't any automation system for accident.

## IV .PROPOSED SYSTEM

Propose system collect user data at starting and generate QR code for on an individual basis. When accident, user take a photograph and send to nearest station house suggested by system along side location data additionally inform to the closest hospital. When station house permission, system mechanically generate FIR alongside accident image and send to the hospital. Hospital sends feedback to user and when planning to accident location nurse scans the user QR code to induce user data instantly. And supply treatment to the user.

## V.MATHMATICAL MODEL

Let 'S' be the system
Where
S= {I, O, P}
Where,
I = Set of input (information related to user)
O = Set of output (recommended list of police station and hospital)
P = Set of technical processes

- Let 'S' is the system

  S = {……
- Identify the input data S1, S2… , Sn

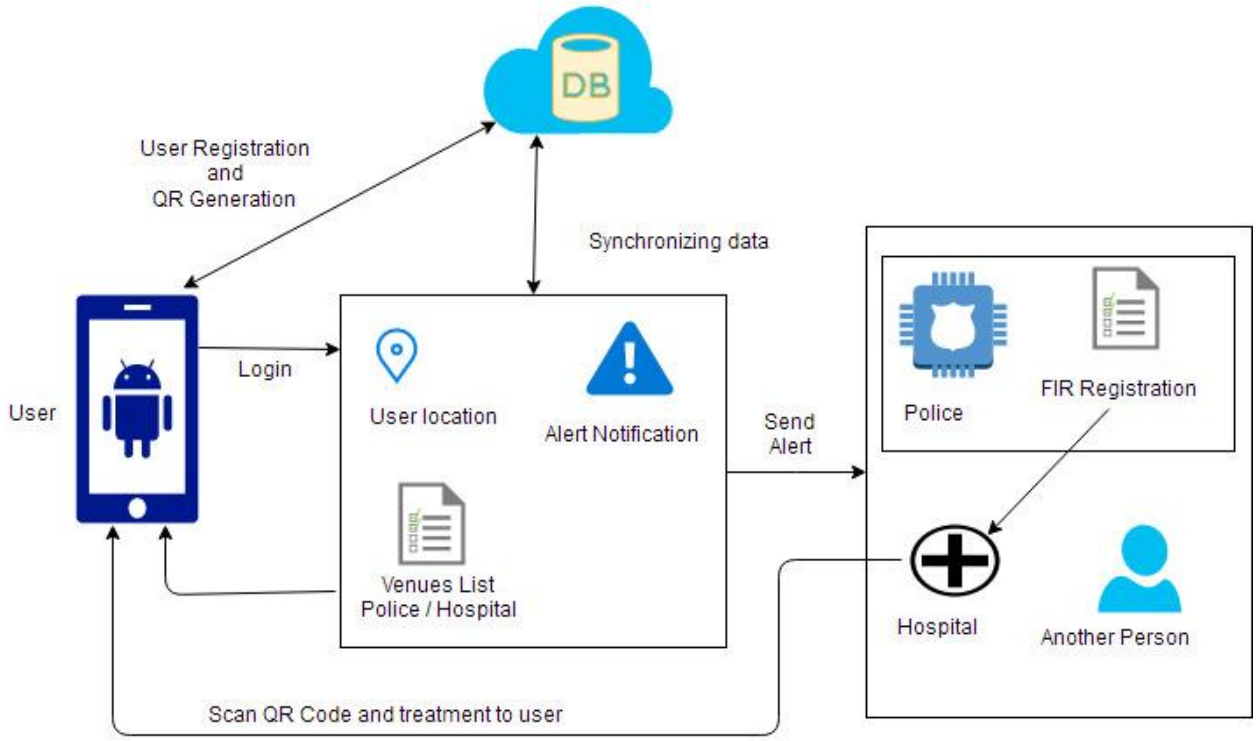
  I = {(current location, accident photo, qrcode ) }
- Identify the output applications as O

  O = {recommendation of police station and hospital, user info. By scanning qrcode, FIR generation}
- Identify the Process as P

  Knn for recommendation of nearest police station and hospital

## VI.SYSTEM DESIGN

QRCode generated at the time of registration. All data hold on at information. Users capture exposure and search nearest station house and hospital. Once requesting nearest station house FIR is generated by station house. Station house sends one copy to hospital. Hospitals scan battle-scarred person qr code and supply treatment consistent with data




## VII. ADVANTAGES

- Instant recommendation of nearest police station and hospital.
- Required time is reduced
- Reduction of paper work.

## VIII. CONCLUSION

Results have shown that the applying developed is ready to properly fulfill its purpose inside a brief fundamental measure. Our results show that the entire time needed to perform all the tasks, as well as the delivery of AN SMS with the accident details, followed by providing the close police headquarters and hospital details and causing them an alert message of the user accident with actual location of user, is taking short fundamental measure.

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