Accidental Management System 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 overcome using an application which can be helpful for people to assist different people who are affected with accidents. It will facilitate us to save lots of the accidental persons. Project will be used as an accident detection system. The accident detection system will inform the police station regarding the accident by clicking images of accident. The application will recommend nearest hospitals and police stations list in application. FIR will be generating by police station and sends copy to the revered hospital system. Revered hospital scan user QRCode and supply treatment acc. to info and send emergency SMS to user's pre register mobile phone.*

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 used in Japan and 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, keep connected with our friends and family, and deliver our product. However it will also bring disaster to us and even can kill us through accidents. An accident may be a deviation from expected behaviour of event that adversely affectsthe property, living body or persons and also the atmosphere. Travelling is primary concern for everybody. Recent advances in automation 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 how smartphones in a 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 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 behaviour of event that adversely affects the property, living body or person 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 informs the police station or the other emergency occupation system regarding the accident. Associate in nursing measuring instrument sensing element has been used 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 liableness of the system.

3. TITLE: Implementation of an Android based tele-operation 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 automation,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 developed for 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.

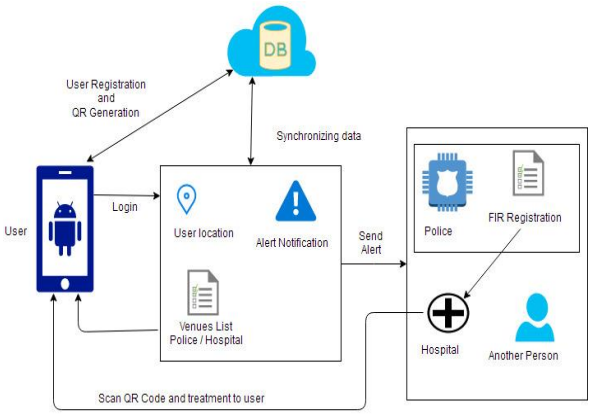
5.TITLE: Performance Analysis of Maximum Length LFSR and BBS Method for Cryptographic Application.

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

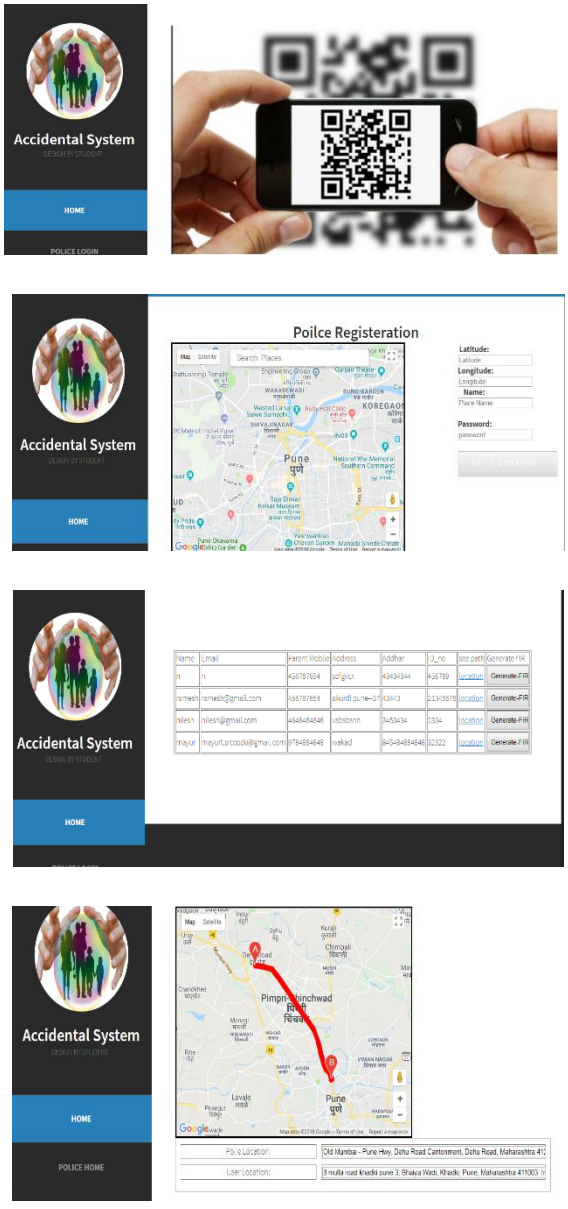
In this paper 8, 16 and 32 bit length LFSR which can supply the foremost states of PN sequence has been enforced. To boot given the comparison of performance analysis of 4 bit LFSR and sixteen bit BBS supported synthesis and simulation result on FPGA victimization hardware descriptive language(HDL) with 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 12. FPGA might be a predesigned reconfigurable. It is the power to reconfigure its equipment for a desired application or operate at any time once manufactured. 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 associatively logical operate that associate degree ASIC can perform. Wing to varied blessings and quick model development can potential, therefore FPGA is chosen.

III. SYSTEM DESIGN

QRCode is generated at the time of registration. All data is hold on it asthe information. Users capture images and search nearest police station and hospital. Once requested nearest police station's FIR is generated by police station. Police station sends one copy to hospital. Hospitals then scans person QR code and provides treatment according to the information.



IV. RESULT ANALYSIS



V. ADVANTAGES

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

VI. CONCLUSION

Results have shown that the application developed is ready to properly fulfil 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 nearest police stationand hospital details and providing them an alert message of the user accident with actual location of user. This is reducing the period of time.

REFRENCES

[1] "Number of smartphone users worldwide from 2014 to 2019 (in millions)." [Online]. Available: http://www.statista.com/statistics/274774/forecast-of-mobile-phone-users-worldwide/

[2] A. Choi, A. W. Lovett, J. Kang, K. Lee, and L. Choi, "Mobile applications to improve medication adherence: Existing apps, quality of life and future directions," Advances in Pharmacology and Pharmacy app, vol. 3, no. 3, p. 6474, 2015.

[3] S. Heldenbrand, B. C. Martin, P. O. Gubbins, K. Hadden, C. Renna, R. Shilling, and L. Dayer, "Assessment of medication adherence app features, functionality, and health literacy level and the creation of a searchable web-based adherence app resource for health care professionals and patients," Journal of the American Pharmacists Association, vol. 56, no. 3, p. 293302, 2016.

[4] S. Chan, "Free, easy app for tracking medication regimens," 2015. [Online]. Available: http://www.imedicalapps.com/2015/03/review-medisafe-app-reminders/

[5] V. Arya, R. Alam, and M. Zheng, "Medication adherence: Theres an app for that," Pharmacy Today, vol. 19, no. 6, p. 34, 2013.

[6] "Medappfinder."[Online].Available:http://medappfinder.com/

[7] "Medisafe pill reminder by medisafeinc." [Online]. Available:https://itunes.apple.com/us/app/medisafe-pill-reminder-medication/id573916946?mt=8

[8] "Medcoach medication reminder by greatcallinc." [Online]. Available:https://itunes.apple.com/us/app/medcoach-medication-reminder/id443065594?mt=8

[9] "Pill monitor free - medication reminders and logs by maxwellsoftware."[Online].Available:https://itunes.apple.com/en/app/pill-monitor-free-medication/id485247638?mt=8

[10] "Mymeds the complete medication manager." [Online]. Available: http://my-meds.com/