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An Android App for Accident Alert Service with SMS Intimation

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ABSTRACT

The main objective of this project is to help society people by intimating accident alert information to family members and sending SMS intimation to all blood donors. Using this website, initially admin will feed all the users information such as vehicle number, registration details, address, phone number, along with blood group, etc. These all the details will be maintained in a separate table. Suppose a person met with an accident means society users can enter their vehicle number on this website which will automatically fetch the complete information of the person and display it. So that they can come to know the complete information and can send the intimation alert to the family. Also, this Website checks the blood group of the person and sends intimation to all blood donors. This intimation contains contact number and address so that they can communicate easily.

Keywords - vehicle, accident, blood donors, family members, SMS intimation, blood donors' details, driver details, isolated areas.

1. INTRODUCTION

Motors at the moment are an critical part of our lives and use them for special purposes. The excessive call for of vehicles has also extended the site visitors risks and the street accidents. life of the human beings is under excessive chance. this is because of the shortage of exceptional emergency facilities to be had in our united states of america. Now-a-days, street injuries have been increased by means of high call for for automobiles. With one of the maximum motorization boom rates within the international accompanied by fast growth in avenue network and urbanization through the years, our country is faced with extreme influences on road protection levels. humans's lives are below greater threat. Now-a-days, more injuries are precipitated because of the increase in traffic on highways. And in maximum of the conditions the family individuals or the ambulance and police authority isn't always informed in time. This led to delaying the assist reached to the individual struggling due to the coincidence. twist of fate notification machine is the technique of offering notification of an accident to the victim's buddies, relatives & emergency carrier. due to the fact that each and each moment is very important after an coincidence, with this paper we attempted to provide aid via supplying actual time notification of the accident

2. SYSTEM REQUIREMENTS

2.1 HARDWARE REQUIREMENTS

- CPU Type: Intel Pentium 4
- Cloud speed:3.0GHz
- Ram size:512 MB
- Hard disk capacity:40GB
- Monitor type:15 Inch colour monitor
- Keyboard type: Internet keyboard

2.2 SOFTWARE REQUIREMENTS

- Operating System: Windows, Mac, Linux, etc (any one)
- Front End: JAVA
- Back End: SQLite
- IDE: Android Studio

- Documentation: Ms-Office

3. SYSTEM STUDY

It includes reading a method or business if you want to identify its goals and purposes and create structures and strategies with a purpose to gain them in an green way. Use instances are a widely used systems evaluation modelling device for figuring out and expressing the practical requirements of a system.

3.1 EXISTING SYSTEM

Oftentimes, the person who met with an accident doesn't get any assist from the surrounding inside the gift gadget. This causes a extreme stage. Humans have a tendency to avoid helping the people met with an coincidence due to important issues involved in it. Present system doesn't offer an twist of fate notification machine because of this the system of providing notification of an coincidence to buddies, loved ones and emergency offerings. The

Present device is tedious and time consuming. Some other critical downside of the prevailing device is the time factor that does not offer facts on time.

3.2 DISADVANTAGES

- Tedious and time consuming.

- Not a consumer pleasant.

- Doesn't offer twist of fate notification.

- Does no longer offer facts on time.

3.3 PROPOSED SYSTEM

The drawbacks, that are faced for the duration of the existing system, may be eliminated by using the use of the proposed machine. The principle goal of the proposed gadget is to provide a consumer-pleasant interface to twist of fate notification. The principle objective of this mission is to offer society humans intimate accident alert facts to own family individuals and send SMS intimation to all blood donors. Think someone met with any coincidence approach society consumer any individual can input automobile range on this internet site approach this may mechanically fetch the whole facts of the character and show and can send an intimation alert to the own family contributors.

3.4 ADVANTAGES

- Less time-eating technique.

- That is a user-pleasant software.

- Offer twist of fate notification.

- The manner is good comparatively to the present system.

- Easy to enhance requiring changes in destiny.

4. SYSTEM DESIGN

Structures design is the manner of defining the architecture, modules, interfaces, and records for a gadget to meet precise necessities. Systems layout can be seen as the application of systems concept to product development.

4.1 FILE DESIGN

The file system is used to manipulate how information is stored and retrieved. Without a report gadget, statistics positioned in a storage region would be one large frame of records and not using a way to inform where one piece of facts stops and the subsequent begins. By using isolating the statistics into person pieces, and giving each piece a name, the statistics is easily separated and identified. Taking its name from the manner paper-based totally information systems are named, every group of statistics is called a report. The structure and logic guidelines used to manipulate the groups of records and their names are called a "record machine". There are numerous unique kinds of document structures. Every one has different structure and

Good judgment, homes of speed, flexibility, protection, length and greater. Some document systems were designed for use for specific packages.

4.2 INPUT DESIGN

Input design converts the person-orientated inputs to computer-based totally formats. Erroneous enter facts is the most commonplace motive of errors in information processing. Blunders facts entered by using the records operator can be controlled by using the input layout. The intention of designing input is to make the data entry easy, logical and as unfastened from mistakes as possible. The proposed gadget is absolutely menu-pushed. It's miles a effective tool for interactive design. It facilitates the consumer recognize the range of options available and also prevents them from making an invalid choice. All entry displays are interactive in nature. It's been designed deliberating all of the constraints of the stop-consumer.

Some other capabilities protected are:

• The shape title clearly states the reason of the form.

• adequate space is given for information entry.

• records Validation is carried out for putting off duplicate entries.

4.3 OUTPUT DESIGN

Outputs are the most critical and direct source of statistics to the customer and management. Intelligent output design will improve the device's dating with the consumer and help in decision making. Outputs are used to make permanent tough copies of the effects for later consultation. The output generated by means of the device is often regarded as the criteria for comparing the performance of the machine.

The output design changed into primarily based on the following factors.

• Usefulness determining the various outputs to be published to the device consumer.

• Differentiating among the outputs to be displayed and those to be revealed.

• The format for the presentation of the output

4.4 DATABASE DESIGN

The general subject at the back of a database is to handle data in an included manner. There's not one of the artificiality that is usually embedded in separate files or programs. A database is a set of interrelated data stored with minimum redundancy to serve

Many users fast and efficiently. The overall objective is to make statistics get right of entry to easy, quick, less expensive and flexible for the consumer. In a database environment, commonplace statistics is available which several authorized users can use. The idea at the back of a database is an included series of records and offers a centralized get admission to to the information from the program. It makes it viable to treat statistics as a separate resource. At the same time as designing database, several objectives must be taken into consideration:

• managed redundancy.

• information Independence.

• greater facts at low price.

• Accuracy and Integrity.

• restoration from failure.

• privateness and protection.

• overall performance.

5. MODULES

1. Authentication process

2. User Enrolment process

3. Vehicle and person information entry

4. Blood Donor Entry

5. Number plate search process

6. GPS Location Finding

7. SMS/mail Intimation

MODULES DESCRIPTION

1. Authentication process

The first module is the authentication module. The usage of this module, the admin and user can get login into the cellular software. Primarily based at the position, the page will be navigated.

2. User Enrolment process

The use of this module, a person can check in within the registration form he has to fill with non-public information which include name, address, cellular number, mail identification and username, first call details This module deals

With the consumer info. This could be maintained in a separate desk and the system will generate password to consumer the use of this password person can log on this cell utility.

3. Vehicle and person information entry

This module is mainly primarily based on admin. Gadget will test the admin username and password for authentication. After the verification for authorization the admin may be able to enter the automobile at the side of personal details just like the name of the proprietor, number plate data, area, age, blood group, mobile variety, exchange wide variety and man or woman photograph, bike book registration and so on. All these info maintain separate desk future verification.

4. Blood Donor

This module is absolutely based on person control. The usage of this module admin can accumulate donor lists and check in within the registration form he has to fill with non-public information consisting of name, cope with, mobile wide variety, mail id and username, Blood institution info. This could be maintained in a separate desk and the system will generate password to users using this password Donor can log in this cellular software.

5.Number plate search process

This module is completely controlled through the user. The principle undertaking of this module is to enter the quantity plate details of the vehicle. After successful submission this utility gets complete statistics and blood organization of the individual in an powerful manner.
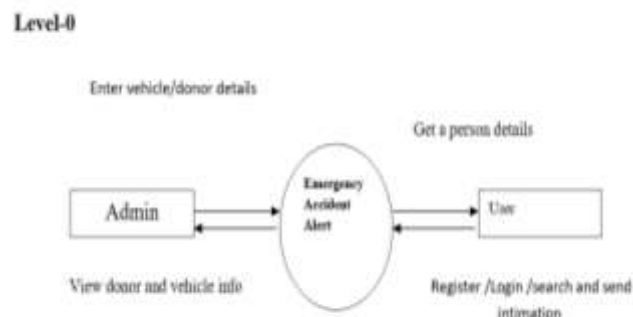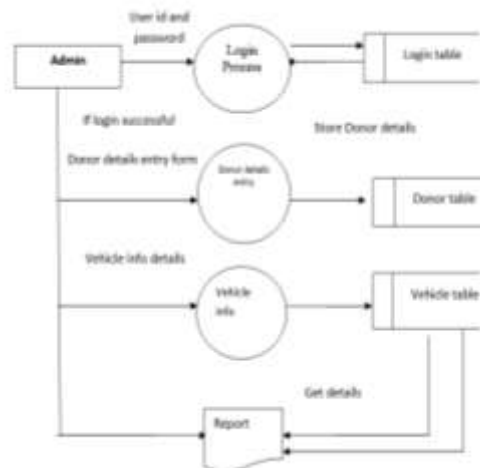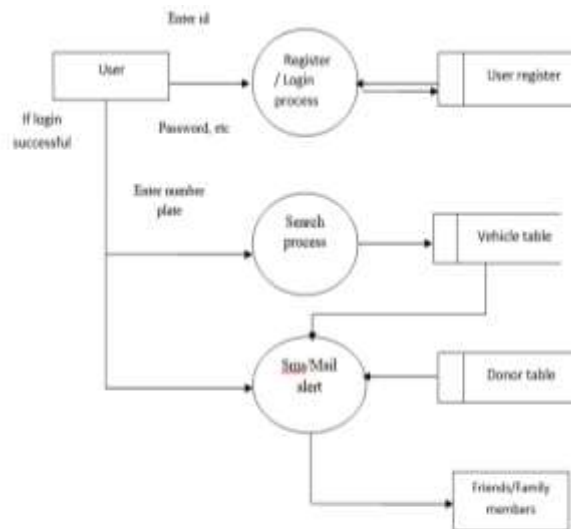
6. GPS Location Finding

GPS vicinity locating

Allows fetching of location from the GPS receiver or from the community-based area services. This module is used to the GPS to locate the person's place tracked by means of satellite tv for pc and that point accumulate facts into the unit. The GPS region finder person tracking unit has a wi-fi modem inside the Android phone's. This modem is used to speak with global monitoring's structures. The GPS information is despatched without delay from the man or woman's facts to our servers, wherein we procedure the records for the user. All of this happens in single manner actual-time.

7. SMS/mail Intimation

The Mail/SMS management is the manner of enhancing the mail service from the utility. After successful identity of person details this utility robotically sends mail intimation alert to circle of relatives participants and corresponding blood donors with at the side of person info and GPS location.

6. DATA FLOW DIAGRAM

Level1:

Level2:

6. SYSTEM TESTING AND MAINTENANCE

Objectives of Testing

Software testing is a vital element of software high-quality assurance that represents the ultimate overview of specs, layout and coding. The user exams the advanced machine and modifications are made in keeping with their needs. The checking out phase entails the trying out of evolved system using numerous varieties of facts. It involves consumer education, device testing and a hit running of the advanced gadget.

The changes are made consistent with their desires. The testing stages entails the testing of the evolved device the use of various sorts of facts. While trying out, mistakes are stated and corrections are made device checking out is the degree of implementation, that is aimed toward ensuring that the machine works as it should be and successfully before stay operation commences. The candidate device is concern to a variety of test: pressure recovery, and safety and value tests.

Test Plan

Trying out is the manner of executing a application with the purpose of locating any mistakes. A great take a look at of direction has the high chance of finding a but undiscovered blunders. A successful testing is the one that uncovers a yet undiscovered mistakes.

A check is critical to the fulfillment of the device; gadget test makes a logical assumption that if all components of the gadget are correct, then aim may be efficaciously done. The candidate

Machine is subjected to a verity of checks on line like responsiveness, its cost, strain and protection. A sequence of tests are completed before the device is prepared for user popularity checking out.

Testing Methods

The different types of testing are: -

- **Unit Testing**

- **Integration Testing**

- **Validation Testing**

- **Output Testing**

- **User Acceptance Testing**

7. SYSTEM IMPLEMENTATION

Implementation is the stage where the theoretical design is become a running gadget. The most crucial degree in reaching a brand new successful device and in giving confidence on the new machine for the customers that it will paintings effectively and successfully. The device can be applied only after thorough trying out is done and if it's miles discovered to paintings in keeping with the specification. It includes careful planning, research of the modern system and its constraints on implementation, design of methods to obtain the changeover and an evaluation of change over techniques a part from planning. Fundamental responsibilities of preparing the implementation are schooling and training of the customers and checking out of the gadget.

The greater complex the system being carried out, the greater concerned could be the systems analysis and design effort required just for implementation. The implementation segment comprises of numerous activities. The required hardware and software program acquisition is executed. The gadget may also require some software program to be advanced. The mobile application is implemented in android as the front-give up SQLite as returned quit.

Device protection:

The renovation plan specifies the scheduled servicing duties and durations (preventive protection) and the unscheduled servicing tasks (adaptive or corrective protection). Tasks within the protection plan are allotted to the numerous protection companies. A preservation allocation chart is evolved to tag the renovation responsibilities to the precise protection companies. These consist of: in-provider or in-house work centres, authorised contractors, affiliated renovation or repair centers, original gadget producer, etc. The upkeep plan also establishes the requirements for the aid sources.

Associated activities which includes useful resource making plans, budgeting, overall performance tracking, enhancements, long run supportability, and sustenance also want to be controlled. Those sports are being planned, managed, and achieved over a longer time horizon and they concern the nicely-being of the gadget over the whole lifestyles cycle. Proper upkeep of the device (which include preservation-unfastened machine designs) is based very much on the availability of assist sources, which includes help and take a look at system, technical statistics and documentation, personnel, spares, and centers. Those need to be factored in at some stage in the acquisition settlement manner.

8.SCOPE OF FUTURE DEVELOPMENT

Each software has its own merits and demerits. The undertaking has covered almost all of the necessities. in addition requirements and improvements can without problems be performed since the coding is especially based or modular in nature. Converting the prevailing modules or including new modules can append improvements. Similarly upgrades can be made to the software, so that the system might be at once sent alert.

9. CONCLUSION

Implementation is the stage of the project when the theoretical design is Turned out into a Working system. Thus, it can be considered to be the most critical stage in achieving a successful New system and in giving the user, confidence that the new system will work and be effective. Proposed system successfully provides an Android Application development for the A Profile mode change System Using Android Smart Phone. It would help more and more effectively for all users. Here almost all work is user friendly. So, the accuracy is maintained.

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