

First Aid Information Application

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Abstract: Internet plays a vital role in exchanging the information through e-mail, chat, etc. Users can get the information of advanced services through the creative use of the Information Technology. Regarding to this the patients who met with the accidents, sudden heart attacks or any snakebite to the persons, requires the first aid before reaching hospital for further treatment. For reaching hospital, they need the ambulance service, which provides first aid necessities to the patients. so whenever any problem occurs for persons, ambulance may reach the spot, is delayed in the first aid service, and reaches the hospital too late. Since there is late service given to the person who suffering from a lot without proper treatments. To get all the information at their fingertips to the publics, we have introduced our web application. Our manuscript called “First Aid Info App” is design for the use of patients. Through this, website patients get complete information about first aids that they needed through online. Here through the app patients get all the information regarding the first aids in video format, this app makes user friendly for the users to access the information at their fingertips quickly within time that shows the nearby list of hospital details, navigate to selected hospitals and videos helps to quick understanding and effective.

Keywords: Internet, Information Technology, First aid, video, navigation.

I. INTRODUCTION

Now a day mobile became one of the part of life and nothing can replace them. Because they serve as communication between the persons as well as clearing the needs in important situation by user-friendly natured apps. So that the android mobile is one of the platforms for our application introduces a connection between an injured person and admin directly [1]. An accident is an unexpected and unplanned situation that happens and affects human in a negative outcome. The accident can cause an injury to human biological organs. Thus, the provision of initial care for an illness or injury is very important move to prepare the victims before sending to the doctor.

All these drawbacks can removed by using a GPS First aid Provider. In this manuscript, a First Aid Application is develop to give some directions for preliminary taking care of patient/victim via Android mobile device. In addition, the navigation function implement using Google Maps in this paper for searching a suitable path to the nearest hospital. Therefore, in the emergency, this function can be activated and navigate patients/victims to the hospital with the shortest path. In addition, videos are provide for a particular accident, helps for saving time from reading information and understanding it.

In our application it mainly contains three modules Admin, users and hospitals, admin is the super user who can login into the web where he is the only authorized person to add, edit and delete the First aid information. Admin can also add the various diseases information along with the first aid information with respective video. Admin has the power to edit and delete the information about the diseases, he can also view the users, and hospital details who are register to the web, admin have the option to approve the hospitals registered and have the option to delete both the registered users and hospitals. The users can register to the web with his information. After he registered to the web, user will get username and password through SMS, where user will login to the web by using that user name and password, and has the option to view the first aid information regarding to the diseases with video. He can also view all the diseases information and hospitals. Also has the option to update his own profile with password. In addition user get an Emergency button when user is alone, where directly emergency notify to nearest hospital to visit.

Users also login to the application by using his particular username and password through the app he can view the first aid information with video and hospitals list.

Hospitals are register to the web by entering their all information, later after registration to the web, registration request can be approve by the admin and they get username and password through the SMS. They can update their profile along with the password.

**OBJECTIVES:**

- All information regarding to first aid and disease obtained easily.
- It is fast and effective.
- It is user friendly.
- Cost effective.
- Users can login to application and can check the information of first aid when needed.
- Data within the application database is stored as central database.

II. EXISTING SYSTEM:

In present system, if anywhere, the person met with any emergency and needed to hospitalized, can call the ambulance or send the patient to hospital by using any vehicles, during that time of availability. There is a chance that patient may be serious, only waiting to hospitalize in some aspects people did not know about the first aid information to the particular emergency case.

Additionally, recent research results the group of students from Birla institute of Technology and science developed an android application contains instructions and information regarding medical emergencies (heart attack, bleeding, snakebites, amputations, etc.) and how to respond to them. The app also has a one-tap call feature to connect with the National Emergency Helpline, also allows the user to save three favourite contacts that one would like to call during an emergency. App can also use GPS on the mobile phone to locate all the nearest hospitals in your vicinity within a 5 km radius using google maps and will navigate [2].

III. PROBLEM DEFINATION

We are living in an information era and collaboration natured society with guidance is one of the major binding on self by social is to the open. In our country, manual system has sent for a long ago. In existing system, due to delay in treatment there may be chances death of a person. The major drawback of existing system that no such persons have look over the text information and understand at the time of emergency. In addition to that, one-tap call feature does not work when the victim is alone in the remote places unable to communicate.

In manual system Most of the peoples going to watch the accidents and make photos, videos to post in social media rather than first aid to that persons and make hospitalize. Major accidental deaths happens due to people's poor knowledge about first aid and inhumanity.

IV. PROPOSED SYSTEM:

Proposed system solves above stated problems. This system helps the person who is suffering from the disease or any emergency as snake bite, heart attack, bleeding, etc., can get the first aid information through this application, which are already stored within the web. The user information and first aid information are stored in the database, this application try to give the information about the first aid to save the life of the injured person.

By providing a video instruction to the user can effectively first aid to the victim one. Moreover, in the Emergency time the victim is alone in remote place user can press the Emergency notify button that sends the notification to the registered hospital nearby the user, or else by using the sensors in the smart phones the falls down to the ground that activates and sends the emergency notify to the hospital where location detected. By the help of navigation, ambulance can reach to the spot.

There is need of promoting web applications by using the internet, during the emergency at the time of hospitalization before moving to hospital there is a need of first aid required to the patients. By using this application, it is helpful to know the first aid amenities wanted for the particular emergency hospitalized case. By providing this APP, we are trying to save the life of the patients during meanwhile time. By using this app, people can get all the information regarding to the disease and first aid information at his fingertip.

USECASE DIAGRAM:

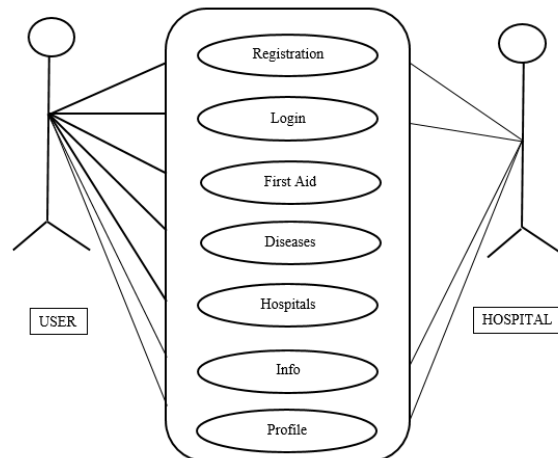


Fig1: USECASE Diagram for Users and Hospitals.

Features of the proposed system are:

1. Admin can add, edit and delete the First Aid Info and diseases info.
2. Admin approve the registered hospitals.
3. Users view first aid info with video.
4. Users view the diseases and hospitals info and list respectively in both app and web site.
5. In emergency, a user can single click of the button emergency info that notify the location to the nearby registered hospitals.
6. In addition, the inbuilt accelerometer sensor detects accident and automatically notify to the location to the nearby hospitals.
7. Hospitals update their profile here.
8. This application has non-functionalities that correctness, reliability, robustness, maintainability, portability, security.

ER DIAGRAM:

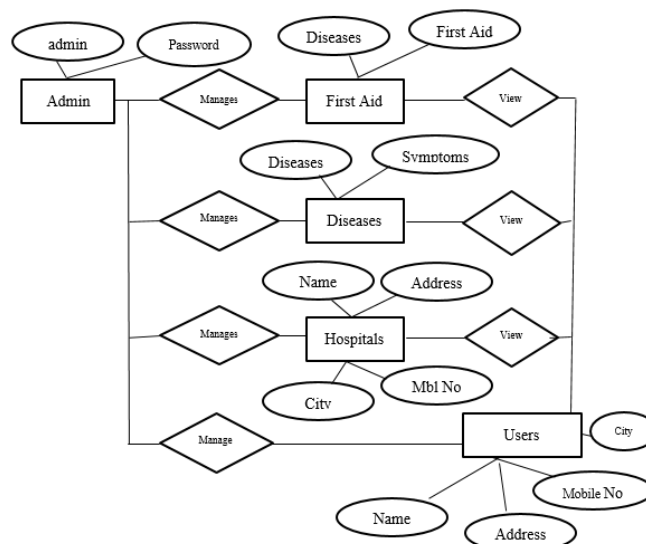


Fig2: ER Diagram for First aid Info Database

V. RELATED WORK

Some of the list of preventable deaths of related research data (2016 & 2017) can be able to hospitalize from first aid shown in the tabular form contains percentage changes.

Table 1: Types of Preventable deaths

Type of Preventable Death	2016	2017	Change	Percent Change
Poisoning (including drug overdose)	58,335	64,795	6,460	11.10%
Motor-vehicle	40,327	40,231	-96	-0.20%
Falls	34,673	36,338	1,665	4.80%
Suffocation by ingestion, inhalation	4,829	5,216	387	8.00%
Drowning	3,786	3,709	-77	-2.00%
Fires, flames, smoke	2,730	2,812	82	3.00%
Mechanical suffocation	1,781	1,730	-51	-2.90%
Natural heat, cold	1,189	1,269	80	6.70%
Struck by, against	790	806	16	2.00%
Machinery	610	572	-38	-6.20%
Firearms	495	486	-9	-1.80%
Water transportation	492	466	-26	-5.30%
Rail transportation	421	439	18	4.30%
Air transportation	407	385	-22	-5.40%
Electric current	260	254	-6	-2.30%
Transport residual	1,401	1,503	102	7.30%
Nontransport residual	8,848	8,925	77	0.90%
Total	161,374	169,936	8,562	5.30%

From the above tabular analysis total 5.30% of peoples i.e., in lakhs died due to delay in first aid and hospitalization.

VI. CONCLUSION

This application is implement as web application, access through internet using web browser and Android app. In this competitive world, quicker execution, user satisfaction timely and correct info became valuable pre-requisite. This manuscript is develop with the fact in mind, that net primarily based application, have become additional and additional standard. Our application could be a net application developed victimization, that is developed for the use by the patients who are suffering from the disease, before going to hospitalize him at least he need some first aid, during this time users can get the first aid information regarding to the diseases by using the app or website.

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BIOGRAPHY



Ms. Amisha R Naik has received the BCA degree [8th Rank] from Davanagere University in 2019 and Pursuing Master Computer Application under the care of VTU, Karnataka, India. She has launched a short story under magic ink publication, passionate writer, state level Debate winner, Awarded best speaker under techniques language management. Her research interest includes IOT, cloud computing, web technologies, Modern science.



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