



Women Safety Application Using Html And Javascript

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Abstract: Nowadays in Today's world People using smartphones have increased quickly. So smart phones are used for various purposes also it can be used efficiently for personal security or different protection purposes. The dangerous incidents have alert us for first priority our safety issues and host of new apps have been developed to provide security systems to women from their smartphones. This abstract is about an Android based Application for Women Safety. This application is used whenever it needs a rise. It has many special features such as the single click the app identifies the location of the person. In this application it has voice features in case of emergency if we can't pick the phone. This feature of the application is to send the message to whoever has downloaded this application. Timing features are also set. It can also call for an emergency if required.

I. Introduction :

Nowadays, Men and Women are working till early or late at night. In the Modern world it is unsafe for people to work till late night especially for women. It is very important for women to provide safety for them. To provide safety for women, a good way to reduce the chances of becoming a victim of these crimes is to call on sources that can help you in these situations. If you have a Safety Application then it is beneficial for women. Women Safety's App which works only at the time of emergency or dangerous situations. Whenever a woman is in a critical situation or feeling insecurities, at that moment use the Safety App to provide security to you. It can help you in any Dangerous situations to help you and make you feel secure. This app also minimizes the possibility of risk and helps us to identify the location where the person is in danger or not. There are many safety applications available with different features. Some applications cost money while Some is free of cost. These apps are built to offer real-time assistance and provide quick access to emergency services, often with features that can send alerts, track locations, or even initiate automatic calls to family members, friends, or local authorities in case of emergency. These apps aim to provide women with peace of mind, reduce the feeling of vulnerability, and act as a quick tool for responding to dangerous or threatening situations.

II. Purpose :

The Women Safety Application is especially designed to enhance safety protocols, simply safety related-processes, and empower workers to proactively identify and address the dangerous situations. If you are doing any job or work that place should never be taken lightly. This app also offers you features that can enable people or workers to reports incidents or potential hazards allow prompts and corrective actions to be taken. One of the advantages of Safety App is their skillful work settings. This app is used to follow consistency and ensures that safety the first priority should be followed. Women Safety App is like user-friendly. The Women can use this app to get help any time and this app will always remain in their mind so they can keep their awareness always up and never get scared of any one and anytime & anywhere. They can always be

freely doing work without any tension of safety. This app is very helpful for keeping the family carefree or without any worry to create awareness about your daughter. First of all you will get a notifications about the location of your girl child, after which you can alert her using the SOS button. It is really helpful to track down your daughter, when she is not responding to calls or text.

III. Scope :

This application is very useful in such situations where women may not be able to press or click the emergency button or may not use the android phone then she can shout for the help, with the help of loud noise this application can send the alert messages to the given or saved contacts or it will receive the alert message to nearby police stations through which she will get the help. In this application , there will be a feature for Self-Defense through which the person can save herself from dangerous situations. After that she will get the notifications that she is safe or not . If she sends the message that the contacts will get the messages of the sender. In this feature the helpline number is also saved like Police, Ambulance, Women Safety Department. After we select the emergency number the call will directly go there and the person will get the help. This application will also have a fingerprint scan like a password. This system starts when the woman authenticated to the device does a fingerprint scan. This scan will work as an Android Phone password in which only the user can open this mobile application.

IV. Objective :

The main objective of this project is to provide a highly reliable security system for women. This application is free of cost and it is an offline android application. It's a GPS based women tracking system. The primary objective of the system is to track the person and plot the location on the real time system like Google Maps. It also enable women to send and receive alerts in case of emergency. They can communicate messages as well as location to emergency contacts in the event of an emergency. To ensure the safety of people in this environment, obstacle contact safety devices such as force sensors or when you speak loudly in case of emergency the app will help you. This device allows a woman to send an alert by pressing a button, which will send her location via GPS to emergency contacts and to authorities via text messages. The purpose of this application is to enhance women safety information allowing anybody to easily report hazards or near misses they spot.

V. Applicability :

The Android Application can be accessed by anyone by installing this app on their smartphones. The main intention of this application is to provide safe and secure to the women with the fastest and simplest way to contact their parents, relatives, friends or family members. The basic thing is to send the current location to the cops and save numbers. One thing about this application is that the person numbers are saved on their smartphones. This application should be installed then only they will get the data of that person. The app also contains personal details, safety tips, self-defense and some tricks to be used while dealing with any kind of dangerous or emergency situations. Women Safety App is an extensive solution. It has new features, technologies and functionalities through the most vital solution at the time of emergency. This application is applicable to all women, children and young girls. This app also contains recording , camera, photos, videos features

VI. Software Requirements :-

In software some requirements are required for making the applications and implementations of the project.

Requirements such as :-

- **Operating System** : Android is a mobile operating system. It is a modified version of linux kernel and other open-source software.
- **Compiler** : It is used after building an application in android studio and it is compiled by a language-specific compiler with any data and resource files into an APK.
- **Testing Tools** : It can be done manually by navigating through it. Testing is done to check if the applications are working properly or not.
- **Linker** : It's a type of deep link. They are http URLs that send Android users to specific in app-locations, web and landing pages within the android environment.
- **Libraries** : It is used for functionality and utility. Some of them include dependency such as networking library, image loading, UI library and many more.
- **Designs** : It is used for designing layout in an android studio. It is also used for to design and develop products.
- **Languages** : In software requirements Frontend and Backend will be created. In Frontend HTML, Javascript , CSS will be used and in Backend SQL , Database in cmd will be used.

VII. Features :

This device consists of a system that ensures alerts in case if a woman is harassed or if she is in trouble. This application or a system is turned on by a woman in case she thinks she would be in trouble. The purpose of a safety app is to enhance the person's safety by providing critical safety information. It also identifies and promotes the strong leadership and growth of women individuals so they can fight for their rights. This 11 system is based on sensors. Whenever the user shakes the phone, a distress signal will be sent to contacts, Which are added in an emergency contact list.

* There are some functions and operations of this project :-

- **Login process** :- This is the first step to login in the application instantly. Women can login through various platforms such as phone numbers or creating username and password.
- **Profile Management** :- Users can create their profile for information such as Photo , Name , Address, Phone number and parent details.
- **24/7 Technical Support** :- This feature helps the users to assist them 24/7 and offers free technical support by the app owner to the users. If they want some additional features they can write in a comment section to the owners.
- **Free installation of server** :- This application is freely available. This feature circulates a vital solution for all the

members who are inside a group in the application.

- **Monitoring the battery :-** This feature can alert the users about the battery management of mobile phones. So that the users cannot face the shortage of turning off the phones.

- **Family Report :-** It helps the users to get updates on their family members or selected contacts about the users whereabouts.

- **SMS Alert :-** This feature helps to give SMS messages or reminds users whereabouts from time to time everyday or in emergency cases.

VIII. User Interface Design :

User , task , and environment analysis are critical components of user- centered design helping to ensure that products must meet the needs and contexts of their users.

1. User Analysis :- It involves understanding the characteristics , needs, goals ,and behaviors of the target users. This analysis helps designers to create interfaces that are aligned with user expectations. It has key aspects such as

- Demographics
- Goals
- Skills and Experience
- Motivations

2. Task Analysis :- It focuses on specific tasks users will perform while interacting with the system. It examines the steps , which involves the information required and the Challenges users may face.

- It has key aspects :-

- Task Breakdown
- Frequency and Importance
- Success Criteria

- It also has Mapping Tasks :-

(a) Tasks Flow Diagrams :- It creates Flowcharts that outline the sequence of steps in tasks, show decision points and alternative tasks.

(b) Hierarchical Tasks Analysis :- Breakdown the tasks into subtasks and actions , illustrate the relationships and dependencies among them.

3. Environment Analysis :- It examines the context in which users will interact with the system, including physical , social and technological factors that may influence user behavior.

- It has the following key aspects :-

- Physical Environment
- Social Environment
- Technological Environment

- It also has Mapping the Environment :-

(a) Contextual Inquiry: Observe and interview users in their natural settings to gather insights about their environment.

(b) Environment Diagrams: Create visuals that represent the physical layout, tools, and technologies users will interact with.



fig:- 6.1

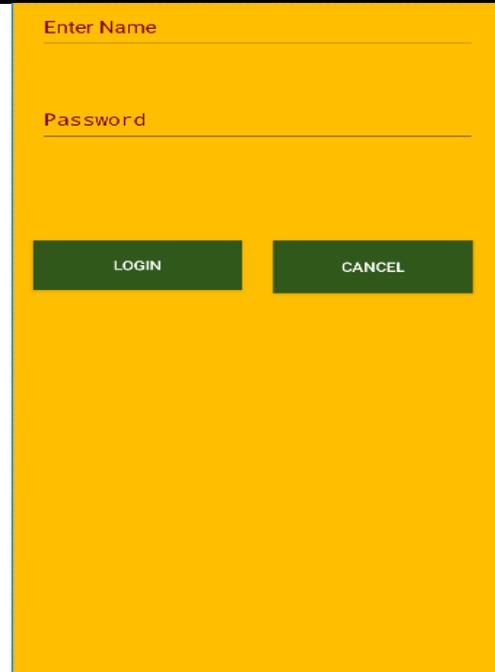


fig 6.2

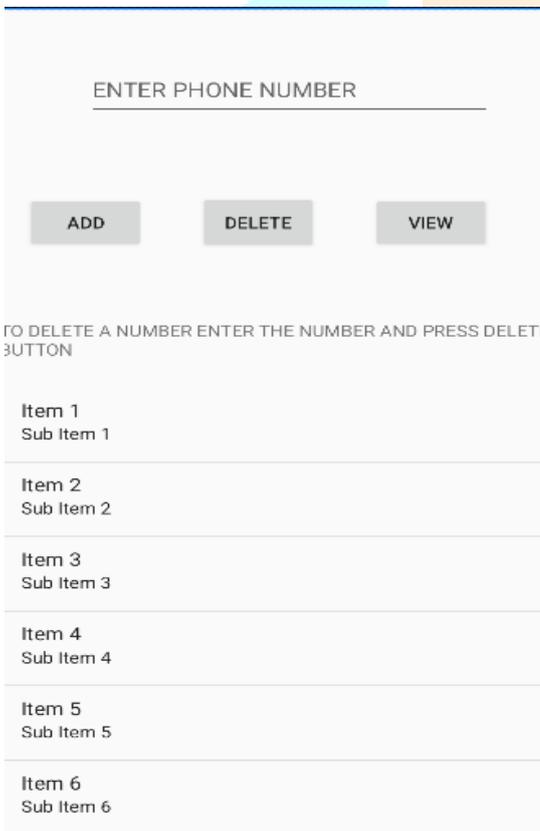


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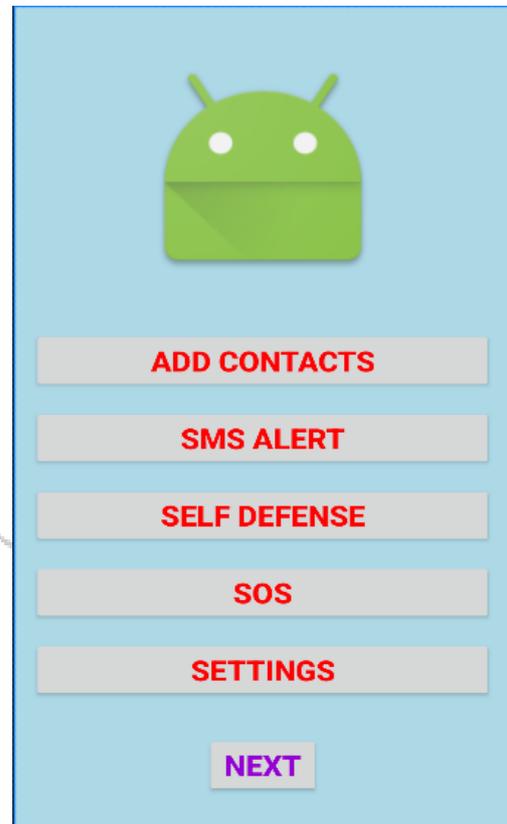


fig :- 6.4



fig :- 6.5

IX. Survey of Technologies :

a) **Html** :- Html elements are the building blocks of HTML pages. It constructs images and other objects such as interactive forms that may be embedded into the rendered page. HTML provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes, and other items. HTML can embed programs written in a scripting language such as JavaScript, which affects the behavior and content of web pages. The inclusion of CSS defines the look and layout of content. The World Wide Web Consortium (W3C), former maintainer of the HTML and current maintainer of the CSS standards, has encouraged the use of CSS over explicit presentational HTML since 1997. A form of HTML, known as HTML5, is used to display video and audio, primarily using the <canvas> element, together with JavaScript. HTML markup consists of several key components, including those called tags and their attributes, character-based data types, characters and references and entity references HTML. The tags are most commonly used in pairs like <h1> and </h1>, although some represent empty elements and so are unpaired, for example . The first tag in a pair is the start tag, and the second tag is the end tag. They are also called opening tags and closing tags. HTML document type declaration which triggers standard mode rendering.

b) **JavaScript** :- JavaScript is a scripting language or programming language. It allows you to implement complex features on web pages. A web page displays static information for you to look at , showing timely content updates, interactive maps, animated 2D &3D graphics, scrolling video jukeboxes, etc. The core client-side JavaScript Language consists of some common programming features that allow-you to do things. Such as Operations on pieces of text known as “strings” in programming language. In JavaScript code Application programming Interfaces (API). APIs are ready-made sets of code building blocks that allow a developer to implement programs that would be hard or impossible to implement. They do the same thing for programming that ready-made furniture kits do for home building. It is much easier to take ready-cut panels and screw them together to make a bookshelf than it is to work out the design yourself, go and find the correct wood , cut all the panels to make a bookshelf.

c) **MySQL** :- Mysql is an open source relational database management system. It is also known as RDBMS. SQL stands for Structured Query Language. It organizes the data into one or more data tables that help to structure the data. SQL is a database that helps the user to create ,modify and extract data from the relational database. The relational databases such as SQL, and RDBMS like MySQL work in an operating system to add relational databases in an operating system. To add relational databases in a computer’s storage system , manages users allow for network access and facilitates testing database integrity and creation of backups. It

is a free and open source- software under the terms of the GNU General Public License. Mysql was owned by Swedish Company MySQL lab which was bought by Sun Microsystems and now by (Oracle corporation). MySQL has stand- alone clients that allow programmers to interact directly with a MySQL database using SQL. It is used with other programs to implement applications that need relational databases capability.

X. Future Scope:

The Future Scope of Women Safety Application is taken by technological advancement. It increases awareness of Women rights and grows concerns about safety in public areas. These applications have evolved in various ways.

- a) **AI and Machine Learning Integration** :- AI powered apps can track patterns in user;s behaviours and their routines send them alerts if they sense danger. Using Data Analytics these apps can sense or predict unsafe situations in the user’s environment.
- b) **Emergency Response** :- GPS tracking is combined with instant messaging to emergency contacts, will enhance the emergency of women safety apps. Users can also quickly share alerts in emergency to their family and friends with location data. They can also directly contact emergency contacts /services or local police for help.
- c) **Behavioural Safety Features** :- Voice- activated features allow users to directly send emergency alerts even if the phone is easily not accessible. It also has Self Defense Safety , Tips and Training.It helps the users to keep safe from handling dangerous situations. It also empowers us with knowledge and Practical Skills.

XI. Reference :

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