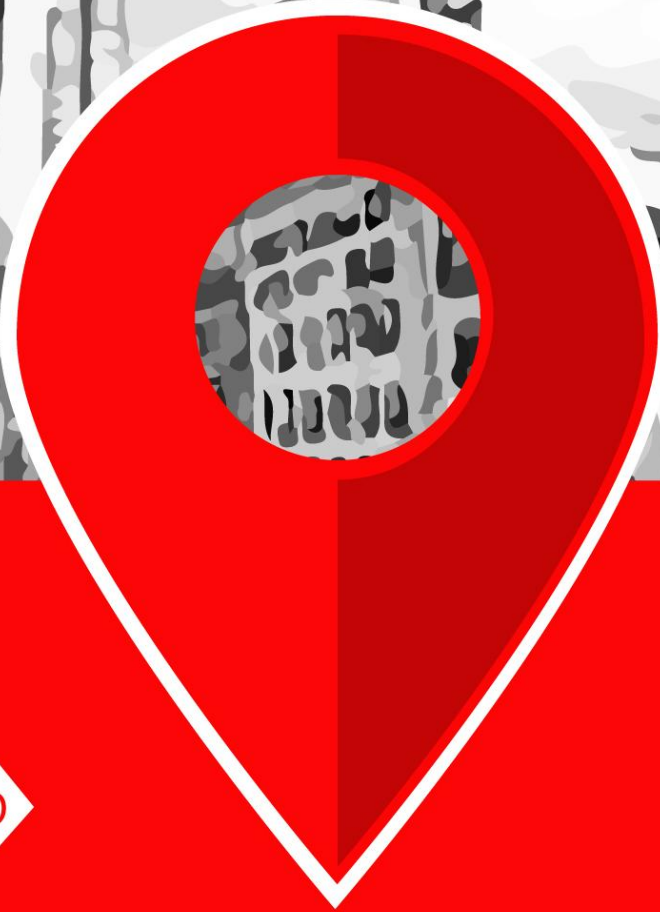**redbytes**
SOFTWARE
Appify Your Business

EYE IN SKY App

CASE STUDY

Domain

A tracking development software that focuses on instant and location based tracking on Android based smartphones. This can be also called as a Women safety app which even provides emergency help calls.

Why Mobile App Development?

Mobile app development has become a sort of colossal point of attention for businesses & individuals, as apps provide incredible features and opportunities. As the measure of safety challenges vary according to situations and locations, its important to have more location tracker apps that can provide instant help.

Objective

To create a mobile app where users can instantly track locations on their Android smartphones. This app can serve to be perfect for carrying out group meetings and also help for women safety and carry out emergency help calls at urgent situations.

Challenges

The client's main requirement was to create an app for real-time tracking and thereby the most important challenge that we faced was to develop a highly functional app that ensured immediate results and convenient usability to customers.

- To create real time tracking facilities

- To enable the option to record your favourite trip details

- To create the 'SOS', that enables the user to send emergency messages to selected contacts

- To create an app, that can even send the users location details without an internet connection during emergency situations

- To create emergency help call facility

Strategy

Our client wanted a peer tracking app which could be installed on Android smart phones. Our team worked together with the client during each stage to exactly work according to their requirements and the feedbacks and improvisation were also carried out simultaneously, as part of organic design and development.

What we did?

Redbytes designed and developed this app with a user-centric approach with interactive design and a scalable software architecture of app building. While starting the app, we assemble a group of developers and designers who work together to bring the best out of the scratch.
With our end-to-end solutions and technical expertise we could complete the app and release it to market in around 6 months with high user quality.

EYE IN SKY, which is a user-friendly GPS locator app, can be used on situations like:

- Serve as an ultimate safety app for women

- Can be used to spot location of your friends

- To track your team members who has headed over to the same destination

- Record location details for future reference

Design

To create the perfect design for the app we weave client objectives, expectations and budget it together to design the strategy of the app to be made. In making this app design, we have worked with a simplified design approach that in turn help us carve a minimalistic prototype design that can drive user engagement.

Design Phase includes the following steps:

- Once the information is collected, mock-up screens are designed

- After approval of the mockups from the client, the actual screen design starts

- Requirements are noted and screens are designed accordingly

Application Part

EYE IN SKY is an app that was developed only across the Android platform. **Core Java** is used which is an independent object oriented programming language and the official IDE of Android the **Android Studio** is used as the development environment which offers features like code editing, testing, profiling, debugging etc.

On the server side, the web application framework used is **Ruby on Rails** which is written using Ruby which can provide default structures like web pages, web services, database etc.
For the tracking system, **Socket programming** is used which connects nodes on a network to communicate to each other.

App functionalities includes:

- Capable of track recording for 15 min, 30 min, 1hr, 2hr

- Can send track record details via mail or SMS

- SOS functionality works with or without the internet connection

Steps of Development

- Once the designs are set, its implemented to the screen by the developers

- First implement modules (login) & then register the profile

- Then UI is implemented for Splash, login, OTP, Home screen & Side Menu, Profile, feedback& About us, setting & notification, Emergency contact etc.

- Functionality for Login & OTP, Profile, Feedback & About Us was implemented

- Contact synchronisation to determine app users & non app users and this is shown in contact list

- Created the group & then show the group list functionality

- Implement invite contact functionality

- Single user tracking functionality implemented

- Implemented setting functionality

- All the implemented functionality details were shared with the client for further feedbacks

- Finally, changes were updated as per suggestions

Testing and Debugging

To ensure that the app works properly in all devices, a set of rigorous manual testing methods were carried out before the mobile app was deployed. The test summary report was generated and the debugging methods were handled effectively which included execution testing and code correction methods to fix the cause.

Investment

To work on this project, we had a group of skill-full & talented team members that included a designer, tester, developer for server side, 2 developers for Android and a Project Manager.

Achievement

Our dedicated team effort along with client ideas enabled us to deliver the best features for the EYE IN SKY app which is turning on to be a huge success. The method of working closely with our client helped us complete the project on time provided with high quality & user experience. After deploying the app to the App Store, our client was completely happy and satisfied in attaining their motive to create a digital solution for location based tracking that could help their users stay safe and connected.