

SERVICE FOR TRAVELERS

The customer's solution is an innovative risk management, threat analysis and reporting platform for companies and individuals undertaking occasional or regular trips abroad.

It is a startup that was founded and backed by U.S. Army veterans and a large community of like-minded travelers. This platform offers a convenient channel for receiving real-time information about current threats in the country/area of destination and allows users to make educated decisions about their journey to stay safe throughout their travel.

Team size:
1-4

Solution:
Desktop, IOS, Android

Duration:
1 year ongoing

Challenge

The company's current portfolio consists of web client and mobile apps for iOS and Android, while a more complex and functional version of the platform for corporate travel managers is being currently developed.

The main goal of the project was to build a functional backend and a web application, as well as a mobile app with a simple, user-friendly UI. Data exchange speed and security were the key requirements for the app since it would need to quickly update maps and enable users to download threat updates, even in remote areas over slow mobile connections.



Solution

Due to the innovative nature of the product, it was initially assumed that many of its aspects would be designed and formalized in parallel with the development process, which made *instinctools recommend Scrum for flexibility and optimal performance.

The use of the agile approach enabled the company to quickly start developing the skeleton of the future solution and to add extra details and features in subsequent iterations.

The mobile clients were built using Angular 2, Ionic 2, and Typescript. The desktop-based management dashboard for Windows and Mac was based on the cross-platform Electron.js framework – the same framework that was used for developing the desktop version of Slack. In addition, a special Windows service was developed to enable the product to send push notifications to mobile devices.

The solution with all of its components heavily relies on a RESTful API, which ensures future scalability, reliability, modifiability and portability



Users

- Map (live update)
- Check-Ins
- Report Alerts
- View Threat Details
- Chats and User Interaction

Application
(web + mobile)



Analysts

- Detailed Reports
- Push Notifications
- Scoring System
- Corporate Travel Management

Result

Several months of hard work resulted in a successful release of the first version of the product, an online service based on a unique concept and possessing a number of outstanding characteristics. The service provides recreational and professional travelers with a reliable source of trustworthy information about threat levels at any global location and helps them travel with confidence about their safety. This partnership was a gratifying experience for *instinctools and its customer. Not only has the team delivered a powerful and functional solution, but it has also established a friendly relationship with the customer. Thanks to the team's valuable input, the solution included multiple new features that were not part of the original specification.

Key features



Real-time updates about emergencies, crime-related or potentially life-threatening situations that may take place or have taken place at a particular location



Tracking of the movement of people and/or their property



Plotting of the safest routes



Tips about local culture



Direct communication with service members and growth of the network of contacts



Near-instant updates about crises arising in the user's destination area

Technologies



C#/NET



Entity Framework



Typescript



HTML + CSS/SCSS



Angular 2



Javascript



Apache Cordova



Ionic 2