



Development of a Mobile App to Support the Oil and Gas Industry

Client

The client is a Texas based company that provides round-the-clock emergency support and maintenance services for the Oil and Gas industry.

Challenges

The client wanted to develop a mobile app that will enable better collaboration between oil and gas plant owners, and service engineers by allowing the ability to share, access and resolve issues occurring on the rigs.

The Client receives a high number of service calls/requests from their customers and were finding it difficult to track and manage the service requests. The process was not highly efficient and they were in need of an application that would not only help them track and manage these requests, but would also enhance the communication between the customers.

The following were some of the challenges that were faced by the team:

- ▶ The client wanted to develop a mobile application that manages the service requests effectively and can delegate to various crew members based on the vicinity of the person to the place of incident
- ▶ The client had a challenge in keeping track of the whereabouts of the crew members/ service engineers deployed
- ▶ They also wanted the ability to keep their customers informed on the resources required to complete a job, provide status of the work completed and help track the progress efficiently
- ▶ The Client wanted to automate the process of notifying the back office once the task was completed so that they could generate invoices for the services provided
- ▶ Given the diverse nature of mobile phone ownership across the customers and service crew, the app needed to be developed across both, IOS and Android platform

Solution

The Client partnered with Opteamix to build a mobile application, that was unique and the first of its kind in the Oil and Gas industry.

The key aspects of the solution implemented for this assignment included:

- ▶ Our team, comprising of a Business Analyst, UI/UX Designer and Technology Experts, designed an intuitive and collaborative platform customized to meet the client's requirements
- ▶ The Business Analyst from the Opteamix team collaborated with the client to define the detailed requirements for the mobile app and the back-end services
- ▶ The team worked very closely with the client to develop the apps that allowed managing the service requests, tracking the service crew and was integrated with back-office operations to ensure efficient invoice generation
- ▶ Real time integration with Google Maps allowed the customers and the client to track the whereabouts of the crew
- ▶ The application was designed to incorporate real time updates on the service requests
- ▶ The apps were built natively for iOS and Android, and incorporated simple and intuitive user interface design
- ▶ Opteamix adopted Agile delivery methodology and leveraged their global delivery capability to execute this project

Technology

- ▶ Swift iOS
- ▶ Android
- ▶ J2EE, Hibernate
- ▶ PostgreSQL
- ▶ Appium for Test Automation
- ▶ Jenkins and Sonar Cube
- ▶ Selenium
- ▶ Amazon Device Farm
- ▶ Google Map Integration

Value Delivered

By leveraging Opteamix's mobility practice, an **app was built from scratch within two months.**

- ▶ **Exceptional quality at a competitive price** - Opteamix leveraged global delivery to execute the engagement at a reduced cost and deliver a quality product that exceeded the client's expectation
- ▶ **Scalable and robust technology** – Opteamix delivered a robust product, which was not only well-architected, but also used the latest technologies such as Apache Solr to manage the client's requirement of handling 50,000 registered customers
- ▶ **Efficient engineering processes** – Opteamix brought efficiency to the engineering process by automating development life cycle activities related to mobile testing, build and release management, etc

- ▶ **Iterative, incremental and interactive development** - The application was developed by adopting Opteamix's Agile methodology that is tailored for global delivery. This approach provided opportunities for incremental modifications and ensured interactive development
- ▶ **Short delivery cycle** – By prioritizing product features, Opteamix was able to build a minimum viable product within a short delivery timespan which ensured reduced time to market

About Opteamix

Opteamix is a digital automation technology consulting firm with deep expertise in Application Development, Robotic Process Automation, AI, DevOps, Enterprise Mobility, and Test Automation Services. We are headquartered in Denver, Colorado with a wholly-owned delivery center in Bangalore, India.