



Innovative Mobile Platform for the US Construction Industry

Client

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The client is a Colorado-based firm with extensive experience in the US construction industry, the second-largest in the world.

Challenges

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The client spotted a strong market opportunity for a mobile platform and wanted to leverage the benefits to address significant needs that exists in the industry. Although the client had ideas about how they wanted the app to look and function, they were not sure of which technologies to use, or where to start.

The client wanted the following areas to be addressed –

- ▶ A platform to enable service providers to keep track of the project progress and update the customer about the status without visiting the site and/or physically being present
- ▶ Prospective customers to have access to data related to the client's previous projects
- ▶ Leverage latest technologies while ensuring that time-to-market was reduced
- ▶ Consistent and unified user experience without any impact on performance
- ▶ A highly robust architecture to handle large volumes of data (the customer base comprised of 50,000 registered users)

The client's previous experience working with an outsourcing vendor resulted in failure. As such, they were apprehensive about using global delivery to execute projects.

There was no frame of reference or precedent for an app of this nature; this particular idea did not previously exist in the construction industry.

Solution

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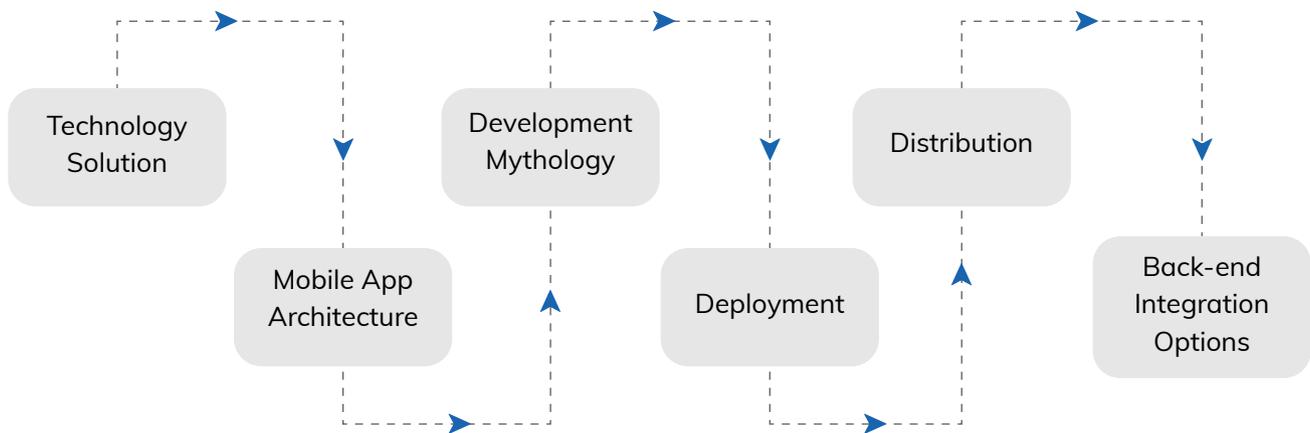
Opteamix's Enterprise Mobility practice worked with the client to put together a comprehensive technology roadmap, and a strategy to turn the idea into a product.

Our team, suggested technology alternatives and recommended the most suitable solution based on the requirements. Opteamix leveraged its enterprise mobility expertise to design a collaborative mobile platform to satisfy the client's requirements.

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

- ▶ Identifying and streamlining the product features along with the client in order to prepare a detailed technology strategy roadmap

The map included-



- ▶ Prioritizing and discovering relevant product features to ensure that the client achieved go-to market with a minimum viable product in a short delivery timespan
- ▶ As a part of the engagement, the team conducted a detailed research about the best social media apps and aggregator platforms for other industries, ensuring that the proposed app included the best features of social interaction and status tracking
- ▶ The user interface was designed to be simple and intuitive, helping service providers to promote their work and get referrals from their existing customers
- ▶ The user interface and architecture was also designed to ensure that the project status updates could be shared conveniently from the service providers to customers
- ▶ The technology architecture was developed with platform scalability in mind, as well as the ability to process a large number of transactions.
- ▶ Opteamix adopted Agile delivery methodology and leveraged our global delivery capability to execute this project

Technology

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

Value Delivered

By leveraging Opteamix's Enterprise Mobility practice to build a highly intuitive and well architected mobile platform, the client was not only able to build a scalable and robust app, but was **able to turn a disruptive idea into a live product within a period of three months.**

Some of the key benefits the client achieved by engaging Opteamix is listed below.

- ▶ **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 expectations
- ▶ **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, 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, Artificial Intelligence, DevOps, Enterprise Mobility, and Test Automation Services. We are headquartered in Denver, Colorado with a wholly-owned delivery center in Bangalore, India.