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Summary

React-Native Power POD

Smaller Mobile App Development Team at a Rapid Pace

A software development Power POD (Pyramid On-Demand) is a small team of 8-10 developers, engineers, and architects working as independent, but interconnected functional teams at a rapid sprint pace to quickly develop a viable product. In this case-study, the Power POD used React-Native (an open-source UI software framework created by Meta Platforms) to develop a mobile application for managing the deployment and installation of fixtures and/or equipment to a site.

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Case-Study Summary
The React-Native mobile app was intended to allow field personnel have a single app that provided functions for receiving shipments on-site, assembling, and installing equipment. The app allows a project manager to assign tasks to various field teams, and track the completion of those tasks, such as installation, in real time. The app also allows team leaders to identify missing or broken parts, or any other issue related to installation, in the app itself so that replacement or repairs could immediately be addressed or dispatched.

POD Management Methodology
The Agile methodology was chosen for this project allowing for the use of the SCRUM Framework. which afforded the POD the ability to systematically and methodically design and develop a very complex but user-friendly application. The SCRUM Framework consisted of short, time-boxed 1-week sprint iterations, which allowed for:

- Agility in Coding and Development
- Quickly react to client's UAT feedback
- Release versions of the software quickly
- Quickly adjust to infrastructure constraints
- Granular resource control
- Faster risk identification and mitigation

High-Paced Development Approach
The POD defined a Minimum Viable Product (MVP) first to quickly create a functioning mobile app within 100 days. The team's ability to gather our client's "Must Have" list of capabilities and incorporating the complexity of technology needed to consume the requirements in such a short time frame is a testament of what a well-organized Power POD can do when following a systematic and methodical process. Consequently, the POD was able to:

- Quickly engineer a cloud-based development environment.
- Test UX as the app was being developed
- Conduct frequent feature demonstrations
- Ensure cost efficiency by controlling cost per production
- Provide clarity of product concept and capabilities
- Benefit from quicker application releases
- Provide continuous feedback and updates

Exactly the Right Team Members
During the Initiation phase the POD was formed by systematically defining and documenting the complex requirements of the project, and then used our ***Exact*Skills™** Framework to define the roles, identify candidates, and select the team accordingly. As well, the client provided critical and detailed "Wish List" descriptions of the application's future potential capabilities and features.

Continuous Client Interlock
The critical success factor for this high-paced Power POD was a high-paced client interlock, which included multiple solution engineering sessions and release demos weekly. This continuous interlock with the client provided several advantages:

- Continuous awareness of product production
- UAT the current release on real field devices
- Provide the client with live, real-time coaching for using the current release features
- Instant feedback from the client
- Rapid response to our client's feedback in resolving issues prior to the next release

Case-Study Conclusion
A high-speed Power POD comprised of exactly the right team, along with a methodical, systematic process applied to a formalized Agile-based Project Management practice proved to be a combination for success.

We look forward to working with our client on future projects.

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