

Aspire's Application Development Accelerator creates an intuitive Multi-tenant solution for an EPC Services Provider



ATTENTION. ALWAYS.

aspire 
SYSTEMS
attention. always.

THE CUSTOMER

Our customer is a Fortune 400 company which is headquartered in the US and spread across Asia, Africa and Australia. They are a leading infrastructure solutions provider that includes engineering, procurement and construction services for the electric power, oil and gas industries, both onshore and offshore.



THE CHALLENGE



As an infrastructure solutions provider, the biggest business challenge that our customer faced was difficulty in establishing a smooth communication across their business workflow. Because of this, there were several cases of delivery conflicts as the users who are mostly field workers did not have a sound knowledge on their authorities for various approval processes.

They faced other challenges like implementing and maintaining the application on premise along with the infrastructure cost. Their existing application was not scalable enough. Moreover, lack of a multi-tenant framework expertise had increased their operational time and effort. Hence, technically, they wanted an enterprise application development framework that enables multi-tenancy features to authenticate multiple tenants across different platforms.

THE SOLUTION

Aspire's PropelDE consultants presented a PoC to the customer which addressed most of their existing challenges and use cases that were requested by them. One of the main use cases was a multi-tenant architecture that allows multiple users/tenants to simultaneously access a software instance and ensure easy implementation of workflows.

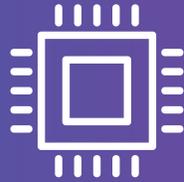
After listening to our customer's business challenges, our PropelDE consultants presented a PoC to the customer which addressed most of their existing challenges and use cases that were requested by them. One of the main use cases was a multi-tenant architecture that allows multiple users/tenants to simultaneously access a software instance and ensure easy implementation of workflows. Since this was exactly what the customer was looking for, they immediately chose PropelDE as their multi-tenant framework for building their solution.

Solution in detail:

With PropelDE's multi-tenant architecture

- 1 They could build a solution which is cloud-neutral and hosted the solution in Azure with the help of the PropelDE development team. This helped our customer to move out of on-premise model to a cloud SaaS model.
- 2 PropelDE has out of the box features like non-functional components which are requirements for every SaaS solution that will easily complement or help in enhancing the customer's existing on-premise application.
- 3 PropelDE's auth server was easily integrated to our customer's application and provided scalable extension to other applications. This is responsible for managing logins and serves as a gateway for allowing only authenticated users and strengthening security across the solution.
- 4 Similarly, their workflow system is powered by PropelDE where each approval request goes through the PropelDE workflow process. Through the 'privilege management framework', privileges are mapped to the specific roles and the admins can assign users based on their roles. Based on the observation of the request, the user can take desired actions.
- 5 We also configured other features like creating and generating reports that included daily field reports, safety reports etc.
- 6 Security was also a major concern. Since they wanted separate databases for each tenant/module/application, PropelDE framework could easily provide database isolation based on their configuration needs.
- 7 PropelDE helped the customer authenticate both the web app and mobile app through the Auth Server and both the web app and the mobile app used the framework's services from the backend using REST API's. The framework also allows easier customization for each tenant with its easy to use configuration capabilities such as customized logo, theme etc.

TECHNOLOGY SNAPSHOT



Frameworks

- .Net 4.6 and above
- Unity
- MVC
- Web API

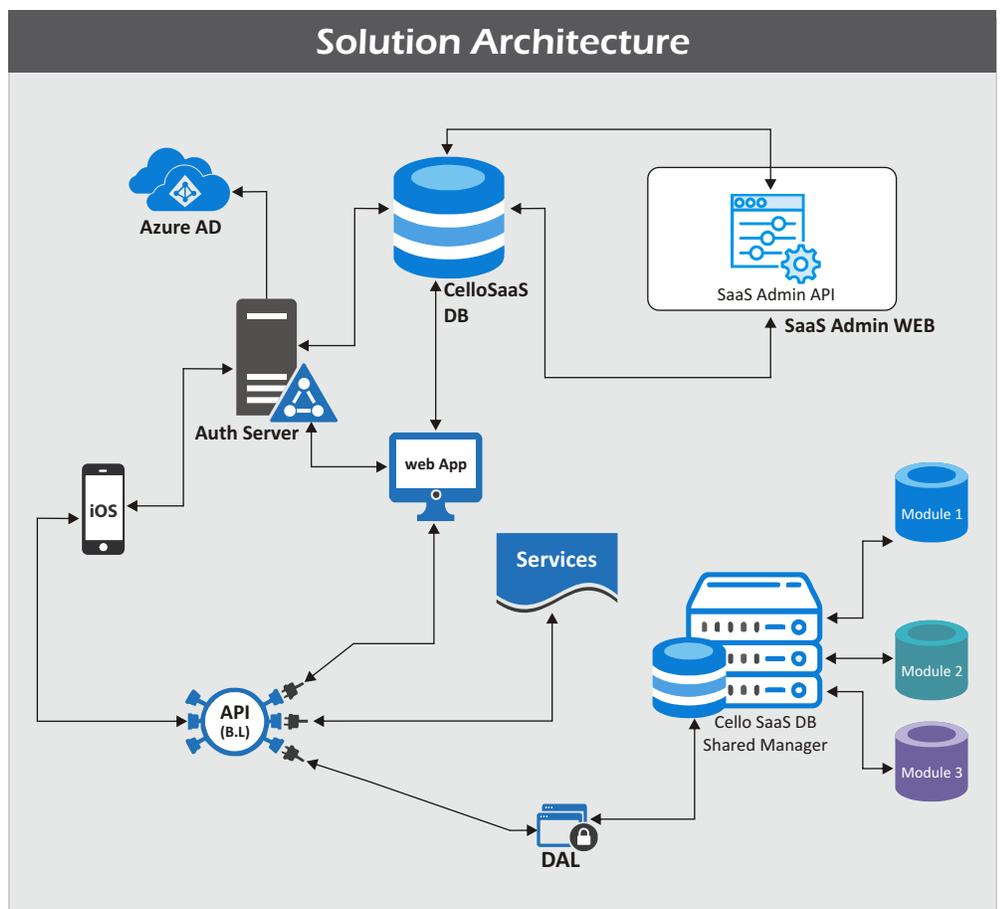
Caching

- Redis Cache

Database

- SQL Server 2014 and above
- Azure SQL

Solution Architecture



RESULTS & ROI



By choosing PropelIDE, our customer benefitted with 50% reduction in development time and cost on multi-tenancy implementation.

A dedicated authentication mechanism with additional features such as configurable security, caching was set up within a short period that enhanced their workflow.



FUTURE IMPACT



With PropelIDE's most scalable and robust multi-tenancy architecture, our customer is confident of transforming their application landscape that best fits the future requirements.

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ABOUT ASPIRE

Aspire Systems is a global technology services firm serving as a trusted technology partner for our customers. We work with some of the world's most innovative enterprises and independent software vendors, helping them leverage technology and outsourcing in our specific areas of expertise. Our core philosophy of "Attention. Always." communicates our belief in lavishing care and attention on our customer and employees.

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