Embedded Analytics with Pyramid

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Embedding analytical content into content portals and third-party applications is a powerful and seamless way to integrate analytics and data driven content into the standard workflows of business users.

Pyramid facilitates this exercise by keeping the embedding exercise simple and secure while still exposing its sophisticated analytic capabilities to end users. Ranging from basic reporting to advanced, dynamic analytic content, embedded reporting with Pyramid allows developers to expose live, real-time analytics using the latest HTML5 standards and responsive design techniques, that can work on any device at scale.

Why Pyramid?

- JavaScript Embedding without IFRAMES
- REST APIs to secure content and data for each user
- Comprehensive tools to create sophisticated content
- Advanced Analytics and Machine Learning
- Multi-data source options with real-time querying
- High scale architecture to cater for thousands of concurrent users
- Hybrid remote data connectivity for cloud deployments

"Pyramid allows organizations to bring their data together in a secure, on-premise or cloud business intelligence environment. Users can optimize complicated data sets and integrate the with data from other sources, giving users the right tools and better data to make data-driven decisions."

Comprehensive Embed Framework

Pyramid comes with a comprehensive package of tools and capabilities specifically for embedding. Chief amongst these is a JavaScript based embedding that allows content to be hosted without older and deprecated IFRAME technology. Critically, while Pyramid can support the IFRAME approach as well, JavaScript embedding offers a more scalable and stable mechanism for hosting analytic content. All embedded content remains live and (optionally) interactive, offering users the ability to delve further into the data and enrich their experiences.

A companion REST API is available for deploying and securing embedded content and operates with any other code base (C#, Java, PHP etc). The entire framework is easy to deploy without requiring complex or expensive pre-requisites and offers tremendous customization and flexibility through the entire extensibility of JavaScript and HTML5.

Embedded Content Personalization

Personalization of embedded content is a universal requirement. Therefore, the ability to secure the data exposed to each user in reports and dashboards is a critical capability in embedding. Pyramid's security APIs and data security options (down to row level), keep this functionality simple yet effective regardless of the data source. Further, for more advanced deployments, content APIs allow developers to present different reports to users programmatically or to change the way queries are rendered using external inputs.

Powerful Content Creation

Pyramid's end-to-end analytics platform comes complete with an entire framework for preparing data (including machine learning and advanced scripting in R and Python); a set of powerful drag-and-drop tools for building reports, analyses and calculations; point-and-click tools for designing dashboards and embeddable panels; and, graphical tools for building data-driven infographics and natural language text.

The permutations and extensibility of content creation is practically endless – affording designers tremendous flexibility when building embeddable content. Coupled with integrated role-based security and multi-tenancy, content development and creation is measured in minutes and hours. Not days, weeks or months.

High Scale Server Architecture

A significant challenge in most analytical projects is the ability to scale the back-end technologies to cope with peak demand and high-performance benchmarks. This is accentuated in embedding scenarios, where high user volumes and querying concurrency issues are very common.

Pyramid's multi-tier multi-node, scale-up, and scale-out architecture provides a framework that will allow administrators to resource their solution without limit. Since Pyramid can be deployed in a cluster that facilitates both load balancing and high-availability options, system administrators can comfortably add more nodes to the solution based on demand regardless of hosting location (cloud, on-premise, hybrid etc).

Multi Data Source Options

Pyramid can directly connect to multiple data sources for real-time live querying in your embedded solution. This includes big data platforms; relational and traditional platforms; web-based sources; and in-memory or OLAP sources. Using multi-stack adapter technologies, this expands to numerous data sources. Most importantly, embedded content can use one or more data sources in the same analytical views – giving content creators the freedom to blend queries and produce more insightful analysis easily.

Advanced Analytics

Data sources can also be cleansed and embellished with a comprehensive data flow toolset that can both clean and mash-up sources using both point-and-click modules as well as advanced scripts using R, Python, or SAS. Likewise, these tools can be used to inject advanced analytical methods (like machine learning) into those data streams to add deeper insight into the raw data.

Hybrid Data

Many embed solutions favor cloud-based deployment – which is a perfect venue to host Pyramid's cloud-centric platform which is architecture to scale out as a clustered solution. However, customer data is often hosted elsewhere. Pyramid includes secured direct data connectivity using its Pulse™ engine, which offers an uncomplicated mechanism for fast data querying without the need to duplicate data to the cloud.

Make your content more powerful by harnessing the power of Pyramid's flexible embedded analytics technology.

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hello@pyramidanalytics.com   www.pyramidanalytics.com