Layer7 Live API Creator

Key Benefits

- **Time to market.** Enterprise-grade APIs and services delivered order of magnitude faster than with traditional coding methods.

- **Greater agility.** In development and maintenance of applications, lending competitive differentiation to businesses.

- **Rapidly expose data sources.** RDBMS, NoSQL, existing APIs, Salesforce, SAP, and HBase.

- **Security.** Enforces fine-grained data access control.

Key Features

- **Live API Creator addresses diverse requirements for rapid development of APIs and Microservices:**

  - **Point and click** to create APIs and microservices, creating new data schemas, integrating existing data sources and systems.

  - **Reactive logic.** Declarative, spreadsheet-like logic, operating in conjunction with extensible server-side JavaScript for easy business policy and security enforcement.

  - **Support for Enterprise messaging brokers.** Publish MQTT, Kafka, JMS, or RabbitMQ messages, and create subscription listeners.

  - **Kafka and MQTT messaging.** Publish MQTT or Kafka messages, and create subscription listeners

At A Glance

Layer7 Live API Creator (Live API Creator) is a low-code solution to create APIs and microservices, offering businesses and developers greater speed and agility. It enables users to create APIs, integrate data across diverse data sources, and implement security and business rules at the finest level of encapsulation—all by pointing and clicking. It also enables customization of the created APIs and services with server-side JavaScript and access to a full Java stack.

The Live API Creator platform yields APIs and services that are secure, development time and cost-efficient, and easy to maintain.

Business Challenges

In the application economy, enterprises require APIs for mobile apps, integration, and partner connectivity. But they generally rely on costly, manual processes to create APIs from hand-coded business logic and SQL calls. Enterprises need to develop API-based apps faster, unlocking stagnant value from data stores and legacy applications.

Application development is being driven toward DevOps processes and microservices architectures that break monolithic applications into logical components that can be continuously developed and deployed for new projects. This translates into a constant demand for greater agility and business velocity in delivering applications and services.

And finally, big data and the Internet of Things (IoT) are driving an explosion of data that needs to be collected, selectively exposed, and then monetized to create new business models.

As it embraces digital transformation, today's enterprise needs to address all these challenges to move forward.

Solution Overview

With Live API Creator, you can rapidly create application back ends for internal applications, mobile dev projects, standalone microservices, data as a service, IoT enablement and partner integration. In minutes rather than months, the solution allows for the decomposition of large applications into self-contained units with necessary for app delivery—data integration, business logic, and a robust API layer. A sophisticated data abstraction provided by Live API Creator makes it an ideal choice for systems integration where there is a need to share data across systems without impacting the underlying data sources.

A flexible platform that supports multiple application and API development methodologies, Live API Creator meets the diverse needs of a modern digital business. Whether top-down or bottom-up, app-centric or data-

Key Features (con't)

- **Uses modern, yet simple architecture and tech stack:**
  - Code in JavaScript with access to Java libraries
  - Deploy and scale on premises or in the cloud as a Java application or a Docker container
  - Integrate with existing APIM and DevOps tools through UI, API, CLI, or SDK
- **Includes Data Explorer:**
  - Instantly create and explore multitable, multiscreen applications with no DB skills

Solution Overview (con't)

centric, automated or code-first, legacy databases, or new managed data sources, the solution provides the power and control that drives the API economy. Live API Creator works seamlessly with API management solutions to enable an end-to-end API lifecycle including creation, management, security, discovery, and consumption.

Live API Creator provides a comprehensive set of tools that is used to meet enterprise application backend needs: security, data integration, business logic, robust APIs and support for modern communication protocols such as Kafka, MQTT, JMS, and RabbitMQ. Live API Creator can be used standalone or in conjunction with other API gateways.

For more information, please visit ca.com/createapis.

Solution Components

Live API Creator dramatically reduces API creation and orchestration time/cost, supports diverse API development patterns, and drives web, mobile and composite apps. The solution consists of three components:

- API Creator allows API owners to easily create APIs from new or existing data models.
- API Server exposes enterprise-class APIs that apply Reactive Logic rules across diverse data sources.
- Data Explorer allows business users to design new applications and manage exposed data.

Critical Differentiators

Live API Creator is a low-code solution to create enterprise class APIs from existing or new data sources. Out-of-the-box features include pagination, optimistic locking, filtering, sorting, nesting, and back-end optimization. It allows point and click integrations across SQL, NoSQL and REST services, and is ready for enterprise deployment (cloud, on-premises, or hybrid).

Live API Creator makes business policy enforcement easy with a server-side object model, declarative Reactive Logic, flexible JavaScript execution environment, declarative role-based and user-based security, and API visualization and testing.

Data Explorer allows for an unprecedented level of business user involvement, without requiring deep database knowledge. It also provides instant feedback to all involved parties, resulting in much quicker application iterations.

Supported Environments

- Deploy near your data or create new managed data sources
- WAR deployment to Tomcat, Oracle, WebLogic, IBM WebSphere, JBoss/WildFly, or Jetty
- Cloud deployment on Amazon or Azure
- Easy deployment with Docker container

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