

# Qreli uses Couchbase Capella to power AI-driven apps, enabling natural language queries, efficient scaling and significantly cutting development time

**Qreli** is a low-code/no-code platform for rapidly building and embedding AI-powered applications, agents, and bots into websites or mobile apps. With humans in control, AI writing the code and API orchestration connecting everything, Qreli delivers precision-tailored solutions and hyper-personalized experiences to customers everywhere. Qreli runs on Couchbase Capella for reliable data storage and uses AWS for cloud hosting, making it a powerful and scalable platform for modern applications.

## Challenges

- **Fast and Flexible Data Handling** – Qreli needed a high-performance, JSON-friendly database that could handle real-time interactions and seamless API integration
- **GenAI-Powered Querying** – required a system that could quickly convert natural language queries into database searches with accuracy and scalability
- **Faster Development** – needed to reduce backend complexity so developers could build and test solutions quickly without extra setup

## Outcomes

- 1,200+ clinical trial documents stored and queried efficiently – Qreli ensures fast, flexible, and reliable access to critical data with Couchbase’s scalable architecture
- Instant AI-driven queries with SQL++ – Users can generate and execute natural language-based database searches in real time, improving efficiency and ease of use
- App development in the time it takes to make a mockup – Qreli drastically reduces development time by eliminating backend complexity and streamlining API integration

## Industry

- [High tech](#)

## Customer application

- API Generator: allow users to build targeted solutions and workflows without deep programming knowledge

## Use case

- [Artificial intelligence](#)

## Product


- [Couchbase Capella](#)

## Key Features

- [SQL++](#)
- [Vector search & AI services](#)

## Cloud Partner

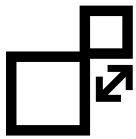
- [AWS](#)



**“The right approach to solving any sort of problem has to embrace JSON, and Couchbase does that natively, making it the easiest and most scalable option for what customers may be building.”**

— Adrian Talapan, CEO & Founder, QRELI

**Qreli** was created to make it easier and faster to build applications using AI and automation. Led by serial entrepreneur Adrian Talapan, the company saw how traditional software development slows down innovation with complex coding, API integrations, and backend setup. Qreli's platform simplifies this process, allowing founders, developers, product managers, agencies and SMBs to quickly create and deploy targeted solutions. It streamlines the process from concept to deployment by combining user-friendly interfaces with powerful computation, logic, and API orchestration. This enables the creation of hyper-personalized experiences that seamlessly integrate with your brand, offering solutions tailored to your specific needs. To achieve this, they needed a database that was fast, flexible, and easy to integrate.



## THE CHALLENGE: FINDING A DATA SOLUTION FOR AI-DRIVEN DEVELOPMENT

---

Qreli needed a database that could handle JSON efficiently since its platform relies on APIs and AI interactions. The ability to store and retrieve structured and unstructured data in real time was essential. Relational databases weren't a good fit for general problem solving, because they required rigid schemas and complex transformations, slowing down development. "The universal language of data is JSON, and Couchbase recognized that really early on, because you can represent anything with it," explained Talapan.

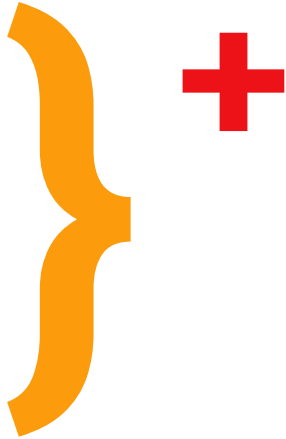
One of Qreli's key features is letting users interact with data using natural language. Instead of writing database queries, users can ask questions in plain English, and Qreli's generative AI converts them into structured searches. To make this work, the system needed to process these AI-generated queries quickly and return accurate results. A slow or inefficient database would have made real-time AI interactions impractical.

Reducing development complexity was also a priority. Traditional software projects require extensive backend setup, API connections, and infrastructure management. Qreli wanted users to focus on solving problems instead of dealing with these technical hurdles. The goal was to let developers build functional applications in the same time it would take to create a basic prototype, and provide them from day zero with internet-scale performance and scalability at low cost using lambda / serverless architecture.





## THE SOLUTION: HOW QRELI USED COUCHBASE TO POWER FAST, AI-DRIVEN APPLICATIONS



Qreli found the right fit with Couchbase Capella on Amazon Web Services (AWS) through the AWS Marketplace. Capella's JSON-native architecture allowed Qreli to store and retrieve data without the rigid structure of relational databases. This made it easy to integrate APIs, connect with AI models, and handle real-time data interactions efficiently.

Couchbase's SQL++ query language played a key role in making natural language queries possible. Qreli's AI dynamically generates queries based on user input, retrieving data instantly. This eliminated the need for manual query writing, making it easier for users to interact with data.

Since Capella is fully managed, Qreli's team didn't have to worry about server maintenance or scaling. This allowed them to focus on improving their platform rather than dealing with backend infrastructure. EC2 is the scalable compute service used by Capella to scale in a manner that best utilizes the resources of the database, based on the needs of the application. This flexibility is essential for handling varying load levels, scaling up during high traffic and scaling back down later. Capella and S3 keeps data available and accessible. With easy data storage and real-time querying, Qreli could provide a faster, more efficient app-building experience.



## THE RESULTS: FASTER, SMARTER, AND MORE SCALABLE APPLICATION DEVELOPMENT

With Couchbase, Qreli improved speed, scalability, and ease of use. One of their early applications involved storing and querying over 1,200 clinical trial documents. Couchbase's indexing and AI-powered queries allowed users to find relevant data instantly, proving its ability to handle real-world use cases.

By using SQL++ and JSON storage along with generative AI for code, Qreli made it easier for users to interact with data. Instead of writing complex queries, they could type simple requests, and the system would handle the rest. This lowered the barrier for working with AI-powered applications and made development more accessible.

Most importantly, Qreli delivered on its goal of reducing development complexity and speeding up the process. With Couchbase, users could build working applications in the time it would normally take to sketch a prototype. This approach transformed how businesses create and test applications, making AI-driven solutions more practical and efficient.

Modern customer experiences need a flexible database platform that can power applications spanning from cloud to edge and everything in between. Couchbase's mission is to simplify how developers and architects develop, deploy and run modern applications wherever they are. We have reimagined the database with our fast, flexible and affordable cloud database platform Capella, allowing organizations to quickly build applications that deliver premium experiences to their customers – all with best-in-class price performance. More than 30% of the Fortune 100 trust Couchbase to power their modern applications. For more information, visit [www.couchbase.com](https://www.couchbase.com) and follow us on X (formerly Twitter) @couchbase.

