

Develia: Using Couchbase Capella to empower childcare facilities with modern technology

Develia Srl is an Italian technology company specializing in software solutions for early childhood education. With a strong focus on digital innovation, Develia developed Kindertap, a comprehensive platform designed to help nurseries and kindergartens streamline administrative tasks, enhance communication with parents, and improve daily childcare management. By leveraging modern technology, Develia empowers educators to make early education more efficient, transparent, and engaging for both schools and families.

Challenges

- Some schools do not have internet access everywhere it is needed.
- A quickly growing user base meant a need for scalability.
- A smaller team with limited time for database administration.

Outcomes

- Offline availability enables Develia to provide always-on access to 120,000 parents and teachers.
- Couchbase horizontal scaling makes it easy to expand.
- Capella DBaaS simplifies and automates administration, security, and maintenance.

Industry

- [High Tech](#)

Customer Application

- Digital management platform for childhood education facilities.

Use Case

- [Flexible Field Services](#)
- [Smart Personalization and Profiles](#)

Product

- [Couchbase Capella](#)

Key Features

- [Mobile](#)
- [SQL++](#)
- [Multi-dimensional scaling](#)

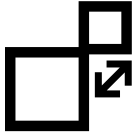
Cloud Provider

- [AWS](#)

"We built our product on Couchbase, benefiting from offline mobile, easy scaling and SQL for JSON capabilities. Now with Capella, our team has even more time to focus on development and grow our business in more markets."

— Alberto Sbeghen, CEO, DEVELIA

Tailored specifically for childcare facilities catering to children aged 0 to 6, Kindertap empowers educators to effortlessly share daily routines, such as naps, meals, and activities, together with the most relevant photos and videos. Kindertap allows schools to manage attendance records, chat and share documents with parents and archive observations to trace the development profile of the children.



THE CHALLENGE: IMPROVING APPLICATION PERFORMANCE WHILE SEAMLESSLY SCALING

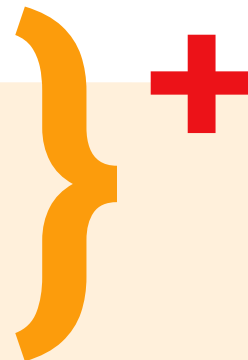
Develia needed a reliable data platform to support its growing user base of educators and parents. With some schools lacking consistent internet access throughout their buildings, it was crucial to ensure an offline-first experience that would maintain seamless functionality across multiple devices. *"We selected Couchbase primarily for its offline-first capabilities to ensure parents have consistent, real-time updates on their children"* explained Develia CEO Alberto Sbeghen.

Additionally, as Kindertap rapidly gained adoption, Develia required a scalable solution capable of expanding efficiently without downtime. Although the application is available via mobile and web, Develia sees 99% of users opting for the mobile version. And with a growing user base and plans to expand into additional regions, scalability became another critical component for the team.



THE SOLUTION: EASIER SCALING AND REDUCED DATABASE ADMINISTRATION WITH COUCHBASE CAPELLA

Initially built with Couchbase Community Edition, Develia made the decision to migrate to Capella DBaaS on Amazon Web Services (AWS) and made the initial purchase through the AWS Marketplace, which provided a seamless buying experience. Capella on AWS enables easier scaling and administration for Develia, with EC2 being 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 AWS services keep data available and accessible for Kindertap, with easy data storage and real-time querying that enable a faster, more efficient app-building experience.



Additionally, Capella provides Develia with a robust and reliable data platform, ensuring the Kindertap application delivers a seamless experience for educators and parents. With an offline-first approach, Couchbase enables fast, secure, and reliable mobile applications by supporting data sync, query, search, and processing both in the cloud and directly on devices, ensuring an always-on experience.

As Kindertap continues to grow, Capella's highly scalable architecture, featuring automatic sharding and elastic cluster expansion, allows for effortless horizontal and vertical scaling to accommodate increasing workloads. Developers also benefit from Couchbase's SQL++ query language, which enables them to build powerful queries on JSON data using familiar SQL syntax.

Lastly, as a fully managed service, Capella provides Develia with a high-performance, hassle-free database solution, allowing the team to focus on enhancing Kindertap rather than managing infrastructure.



THE RESULTS: A RELIABLE, ALWAYS-ON EXPERIENCE AT ANY SCALE

With Couchbase, Develia ensures always-on access for over 1,300 schools across Italy and a growing user base of approximately 120,000 parents and educators. Develia is planning to expand to additional European countries, with the app already translated into German, French, and English.



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 and follow us on X (formerly Twitter) @couchbase.

