

Dentsply Sirona: Connecting Dental Clinics to the Cloud

Building a secure cloud sharing platform with a smooth user interface, connecting & syncing on-premise data to the cloud and creating an API platform, which could be used by multiple dev teams to create cloud based clinical applications..

The challenge

Revolutionize the work of dentists, laboratories and orthodontists and allow a seamless collaboration between all involved parties without any media gaps and in a GDPR compliant and fully secure way.

The solution

DS, Google and freiheit.com joined forces and successfully built a novel, smooth, fast and reliable cloud 3D render engine. The engine performs the resource intensive computations in the cloud by leveraging Google Cloud's support for high end graphic cards. The result is streamed to the browser of the user and allows for real time interaction without the need for expensive on-site hardware.

The result

Built a 3D rendering platform in the Google Cloud that allows collaboration between specialists in real time. In addition to that, this enabled DS to switch between local and cloud-based image processing seamlessly to accelerate the imaging process. This first-of-its-kind solution streamlines healthcare services for millions of patients around the globe.

Using Google's Managed Cloud infrastructure (incl. Cloud SQL, Firebase, GKE & Autoscaling, Cloud Graphics Cards, Healthcare API, Big Query, and Pub Sub) Dentsply Sirona (Zetta25 AG) and freiheit.com were able to create an early to market rollout within nine months, which included 3D rendering, sharing and uploading data from the on-premise infrastructure to the Google Cloud.



About Dentsply Sirona (Zetta25 AG)

Dentsply Sirona is the world's largest manufacturer of professional dental products and technologies. Together with their partners, they empower dental professionals all over the world to provide millions of patients with best-in-class dental care. Their mission is to transform dentistry to improve oral health globally.

Vertical/horizontal solution:
Healthcare & Life Sciences

Primary project location:
Switzerland



About freiheit.com technologies gmbh

freiheit.com builds large-scale software projects across markets and verticals, from ecommerce to healthcare.



Products

Google Cloud Platform