

Application Scalability Based on the Technical Architecture

Orchid's technical architecture has been designed with scalability in mind, and with some minor changes, the application can support a larger audience. Here are some ways the application's technical architecture supports scalability:

Technical Architecture Metrics	Description
Loosely Coupled Architecture	Orchid is a loosely coupled application i.e. the modules are least dependent on each other, thus we can achieve low coupling & high cohesion . This allows for easy integration , making it a versatile solution to meet the specific needs of healthcare providers .
Cloud-based infrastructure (Google Cloud Platform)	Orchid is built on a cloud-based infrastructure, which provides scalability and flexibility to the application. With cloud infrastructure, it's possible to scale the application up or down based on the demand. This means that the application can handle a larger audience without worrying about server capacity issues. With Google App Engine , we can also easily deploy and scale the application without worrying about infrastructure management.
Distributed architecture	<p>Orchid's architecture is designed to be distributed, which means that the application's components are independent and can be scaled independently. This approach helps in managing the resources more effectively, and the application can handle a larger audience without overloading any specific component.</p> <p>Our application is using Cloud SQL, which is a distributed database that can scale horizontally to handle increased traffic and data. This means that user base grows, Cloud SQL can handle the increased load without the need for manual intervention.</p>