

Project Scaling Plan

After sharing our “Balance” application with friends and family, it never stopped. “Put yourself out there!”, “Did you put your new app on the app store yet?”, and “Think of how lucrative it could be!” it began... but then it really took off. We were getting thousands of new subscribers every month. Business was booming, but our performance really started to take a hit. The volume of data we needed to process and store kept growing to the point that it was starting to hurt our users’ experience. Our 5-star rating dropped just as fast as the latency increased for users. It became clear that our relational database was insufficient for our newfound needs.

In order to fulfill the increased requests, we have decided to scale out by switching to a **document database**. We chose this type of NoSQL database for our project because it can store the relatively complex data types we need in our application. Our database of choice will be **MongoDB**, which will provide better scalability and availability for our users while still maintaining a low cost. Because we already did the hard work of translating our original model to a relational schema, we are better informed of what design decisions we need to make going forward. We also built our application in such a way that the persistence layer is abstracted away from the business logic, so while this is a big change, it shouldn’t affect most of our codebase.

You can expect your favorite “Balance” application to be available for download before Christmas!