

# Fitness Data Tracking App

Integrated fitness data tracking app for 14 different activity tracking APIs (wearables) with a gamified incentive system

## Challenge

One of our clients wanted to develop a completely new product in their portfolio. They came to us with an interesting dilemma and needed to gather data from multiple wellness devices into one app. We were faced with the choice between building a custom connector for each device's API or using a service that gathers data in one place.

The challenge from the development side was to build a multi-tenant application with 14 tracking API

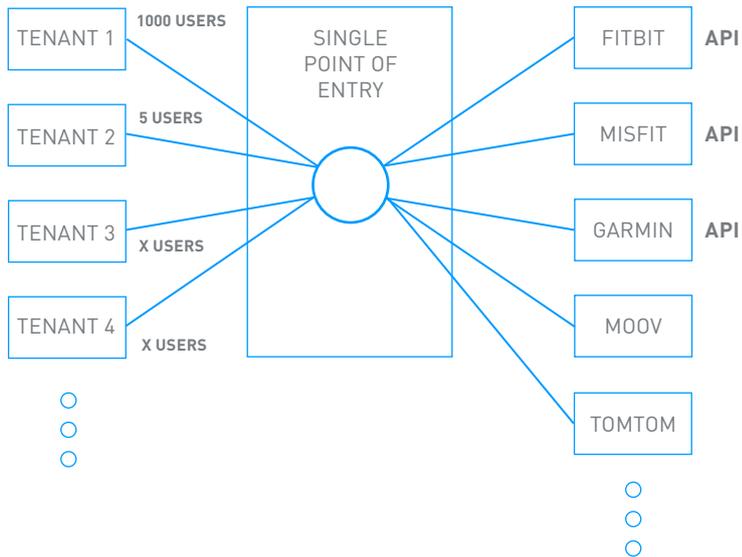
integrations that had a customized look and feel for each tenant. Having an individual integration point per tenant per API meant that we would, for example, for 10 clients/tenants have 140 API accounts/endpoints to maintain with all the activities and data processed in real time.

## Solution

We decided to create a single point of integration for all tenants and for all APIs. This allowed the client to easily add new tenants assigning them custom/branded UI and functionalities.

The app was designed to collect user activities (steps, sleep, exercise ...) and then use that data for an internal

gamified incentive system with the ultimate goal to motivate people to engage in physical activity. The application offers different kinds of challenges (group and individual). Most of the challenges are designed to have some context that will motivate people to become more active. All activities are processed in real time and the results of any challenge are available immediately. The user is able to use most of the tracking devices available on the market.



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## Benefits

By creating a single point of integration for all tenants and for all APIs we drastically reduced the API integration maintenance effort and reduced the effort needed to add new tenants.

We built a queue supported platform with real time processing of activity data in order to minimize race conditions issues. By doing so the app is completely scalable, with the dedicated processing of activities in order to improve performance and manage the increase of traffic - meaning, the client is able to add even more devices as they introduce it to the market.

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Tech: .NET

Duration: 5 months

Value: \$300K