

My most significant technical achievement so far has been the development of a suite of API functionality for bulk user management at Luminance. This project stands out not only because of its technical complexity but also due to its substantial impact on the business and its users.

The problem stemmed from our need to support legal and sales teams at the largest corporations, which required the ability to manage user permissions for hundreds, if not thousands of people efficiently. The existing system only allowed permissions to be assigned at the individual level, which was not practical for thousands of users. This was a critical issue, as our largest ever deal hinged on our ability to provide robust user management solutions that could scale with their needs.

The complexity of this project lay in the need to assign permissions at the user level and to multiple users simultaneously as part of a permission group. This created an array of problems related to combining user permissions, ensuring that permissions assigned individually did not conflict with those assigned as part of a group. To solve this problem, I undertook the entire development lifecycle from scratch. Using ExpressJS, I designed a suite of API functionality that facilitated bulk user management operations. I implemented TDD using MochaJS and Chai to ensure the APIs were reliable, as robust code is paramount in user permissions management to ensure data confidentiality. This approach not only ensured that the code was of high quality but also that it was maintainable and scalable.

The impact of this project on the business was profound. By delivering these APIs, we were able to secure Luminance's largest deal to date and build a lasting partnership with the client. For the legal teams at these large corporations, this meant a seamless and efficient user management experience, enabling them to manage permissions for large numbers of users with minimal effort.