Constraints and Future Enhancement:

Current Constraints:

The major difficulties we had is the limited time and the level of expertise in Java language.

What we have done to mitigate this risk is to prioritize the tasks based on the importance to relate what we have learnt in school to real projects. (In the order of importance)

1. Choose microservice framework:
   We did spend quite some effort to understand different implementations and framework, and we have decided to use the industry standard,
2. The understanding of inside-out of the Optaplanner plugin from code level, there was quite a number of critical lesson learnt from implementation
3. The relevance of our data sets, rules to the real situation.
4. UI

We have to admit that the UI is far from perfect, while from project perspective, UI is a time consuming and individual preferenced matter, and in most cases, it is not re-usable across different departments, and generally handled by a special UX experts.

But with a well designed backend architecture, we could easily use it as a minimum viable product and enhance it with better UI, additional features (as additional SpringBoot components).

Future Enhancement:

We are very optimistic regarding the future enhancement/acceptance from companies, due to our choice of architecture.

1. Spring Boot is an industry standard framework, supports all major platforms (server, vm, or cloud), communication prototypes, various Databases, seamless horizontal and vertical expansion.
2. Due to the loosely-coupled feature of our solution, each individual components：UI, security, DB...etc could be worked on simultaneously by different teams.