Scalability

- The site supports 50 thousand monthly users. VIT currently has 15-20 admin staff, so we do not anticipate that this will be an issue.
- The project is currently allocated 500mb of database space which we expect to be sufficient for current use. If the university outgrows the database, they can upgrade the size directly via Supabase for a small cost e.g. $25/month for 8gb.
- Timetable generation is effectively linear in the number of classes (certain pre-processing steps are not linear, but the run time is dominated by the algorithm itself), so we expect it to scale well as the university grows. Additionally, to improve performance, the constant factor can be reduced by simply decreasing the number of iterations; or the algorithm can even be seamlessly replaced by a more performant algorithm due to the modularity of the system.