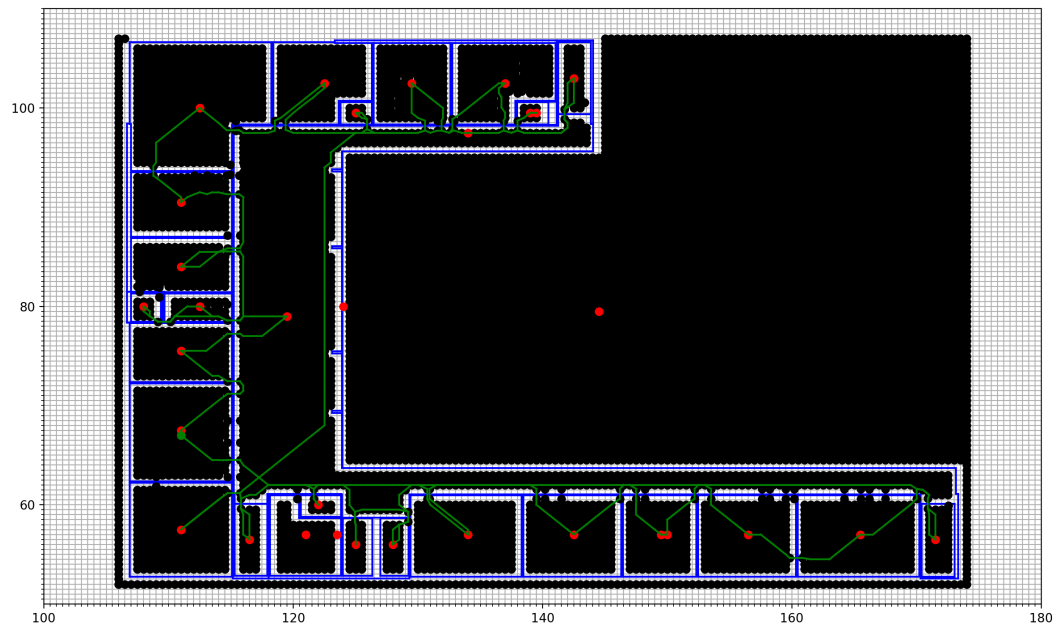


Weekly report 19
Kia Kafei 19/3-2021

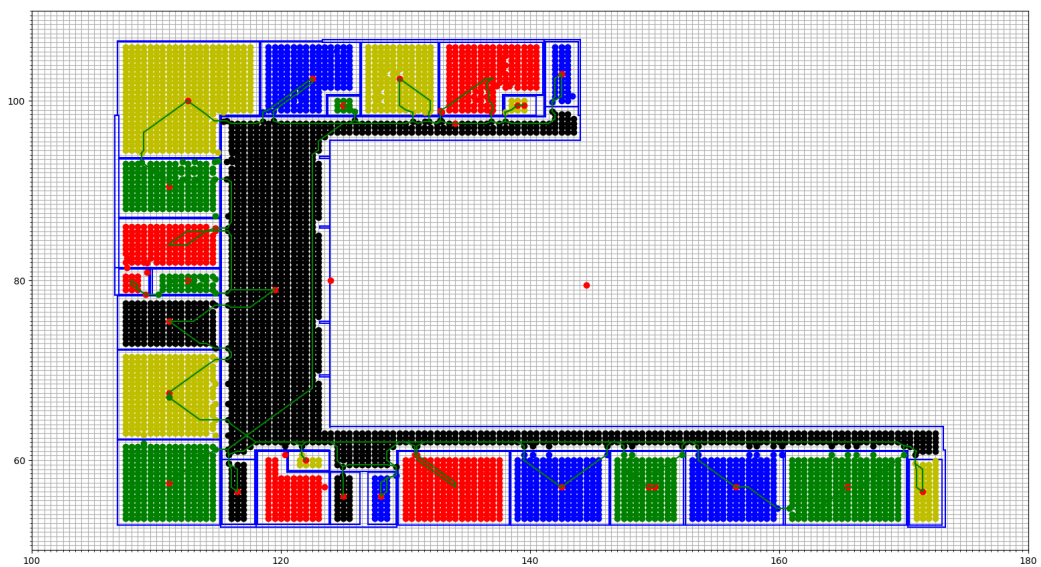
What did I do this week?

- I managed to remove all nodes outside the building
- I managed to associate every node with a room label.

Before:



After:



Challenges

I spent almost all week working on the room labelling, there was a bug in the code that I spent a long time trying to find. The issue in the end was that I should check for the edges plus a small sigma when checking the intersection between the point and the wall.

Structure of the report:

I did some thinking since last week regarding the structure of the report and I am considering writing the report in the following structure. Where I instead of writing one big analysis, method and results part write a small part for each problem.

For every problem:

- What is the problem and why is important to solve
- Background theory to solve the problem. This is the analysis part where I find out the tools I have to solve the problem.
- Design and implementation. Here I write about how I managed to solve the problem specifically, the algorithm I used etc.
- Result.
- Small discussion: where I write about alternative solutions and why I chose the one that I did.

Repeat for the next problem.

What should I do next week?

- I will do the K - means clustering
- Fix the issue with the door node not being connected to the rest of the room
- Test on different buildings