

## **Backlog of extension features:**

If I had more time some extra features that I would add to the software are:

### **User Interface:**

Currently the program operates in the terminal. It would be nice to add a User interface to the system so that the user experience is increased.

### **Rooms with different shapes:**

Currently the application only works with 2 shapes of rooms, rectangular and cylinder. It would be nice to add options to take in rooms with different shapes, such as rooms with different numbers of walls. This would require extra methods and algorithms.

### **Further unit tests:**

Currently only the most basic tests were implemented. This was done in the style of TDD, making the tests to fail and then making the methods to pass them. However further tests could have been made to test for values such as min, max etc, it would have been nice to have further test documentation that could be used alongside this practice.

### **Validation for User Input:**

There was only very basic validation written for user input, this is something that would be very important moving forward and should be added as soon as possible.