Our application, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, is for use in offices, schools and other facilities where there are bookable rooms such as boardrooms, study spaces and labs. It is designed to help monitor and make use of them in the most effective and economical way with the help of various sensors.

Bookable rooms get used at various times throughout the day, they are essential to businesses and students for various tasks such as planning, workflow and general meetings etc. A lot of the time facilities do not use these available resources in an efficient manner due to a lack of monitoring tools, that is where our application comes in. We are proposing a tool that will be able to tell users what resources are available along with important data in real time as well as providing admin staff with past history for help with efficient planning. This will be accomplished with the help of a smart device equipped with thermal, light and temp sensors in each room. Consumers will be able to open the application and see a list of rooms in the facility, upon clicking on the desired room, information specific to the chosen room will be displayed on the screen. This information includes but is not limited to; current room occupancy, a list of booked times for that room, temperature and if the lights are on or off. For example, our application will help eliminate situations where a room is booked but never used, another group would be able to see that and make use of it. Past data on each of the rooms with options to view reports will also be available to an admin or maintenance team and will require a login to access. This information is very useful as it can be used to determine how much the rooms are being used and make necessary economical decisions accordingly. It can also help make the rooms more economical.

In conclusion, our application will help us implement a device that could save a school or a business a lot of unnecessary financial spending. It will also help students and faculty determine room information so that they could make use of these spaces in a more effective manner. Our project is intended to help reduce costs for any facility with various board/meeting rooms, while also giving out useful information to benefit employees and students.