Conference room reservation system

Implement a conference room reservation system for a company. The company has multiple buildings, multiple floors and each floor has multiple conference rooms.

- a) One must be able to book/unbook an idle room specifying the time.
 - i) book(Room r, TimeDuration t, Person p)
 - ii) unbook(Room r, TlmeDuration t, Person p)
- b) System should be able to suggest possible set of rooms given a time duration and an optional query prefix. Query prefix can be prefix of building, floor etc.
 - i) suggestRooms(TImeDuration t, String queryStr)
- c) Should be able to fetch the summarised booking info of a room given a time duration.
 - i) List<Booking> getSummary(Room r, TimeDuration t);
- d) Enhance the suggestion function. You can suggest nearby time duration where meeting rooms are available if none of the room is available for the given time duration.

Expectation:

- 1. Code should be functionally complete.
- 2. Code should be modular.
- 3. Design should be extensible.
- 4. Code should be parameterized than hard coded.