

Problem Description

A company is trying to develop a booking system for meeting rooms. There are several meeting rooms in the office building. A meeting room has a seating capacity, and possibly, audio and video equipment associated to it. The meeting room can be used to host meetings for personnel and/or guests. Guests do not have access to the booking system. Only internal users can book meeting rooms. Not all internal users can book rooms: An internal user can book a room only if they have the required permissions. Each meeting has a designated employee, called the *chair*, who organizes the meeting and books a room for it. The chair must identify all the people who need to attend the meeting, including external users, and must also specify the pieces of equipment needed for the meeting. When external users are involved, the system must consider the type of meeting room to book, since the company wants to leave a positive impression on its guests. Meeting rooms can be informal, semi-formal, or formal. Only formal meeting rooms can be used when external users are involved. Each booking has its (earliest possible) start time, (latest possible) end time, and duration.

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