Prompt:

In 2.5 hours we would like you to create a small backend API using Django. This API will be used to manage a small business that is focused on renting different rooms for events.

Rules:

- There are N rooms with M capacity.
- There are two types of events: public and private.
- If the event is public, any customer can book a space.
- If the event is private, no one else can book a space in the room.
- A customer can book a space for an event, if the event is public and there is still space available.
- A customer can cancel its booking and their space should be available again.
- A customer cannot book a space twice for the same event.

Requirements:

- The business can create a room with M capacity
- The business can create events for every room.
- The business can delete a room if said room does not have any events.
- A customer can book a place for an event.
- A customer can cancel its booking for an event.
- A customer can see all the available public events.

Considerations:

- For now, there is only one event per day.
- Each room has a different capacity.
- Think of each requirement as an endpoint for the API (a Django view).

How you'll be evaluated in order of importance:

- Does the project run, work and meet the requirements?
- How well structured and high quality is your code?
- Can you talk through your approach?

Extra points:

- Throw in a couple of tests.