

Overview: Our API will contain the main or mandatory endpoints and some optional ones such as security and bad request 404. This API specification can be extended depending on your Instructions. Also, we created a simple diagram for our API, please check below.

Mandatory Endpoints:

- GET /rooms: Returns a list of all rooms with optional filtering parameters (type, price, etc.).
- POST /bookings: Submits a new booking, requiring details like user information and booking dates.
- GET /bookings/{id}: Fetches details of a specific booking.
- PUT /bookings/{id}: Updates an existing booking (e.g., change dates).
- DELETE /bookings/{id}: Cancels a specified booking.

Optional:

- Authentication and Security: Authentication method (e.g., OAuth2, JWT) for securing API endpoints, including how tokens are issued and expired.
- Error Handling: Document common HTTP status codes that the API might return (400 for bad request, 404 for not found, etc.), and describe the error message format.

API Specification Overview for Hotel Booking System

API Endpoints

