

## Week 2 Database Design

### Hotel Management System

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#### End Points Design:

I am planning to design the following endpoints for the hotel management:

HTTP Action	Path	Description	Request	Response
GET	/room	Lists all the available rooms	{}	[{roomid: "R01", roomCost: "100USD", roomType: "Queen", roomNumber: "303"}]
POST	/room/add	Creates a new room	{roomid: "R01", roomCost: "100USD", roomType: "Queen", roomNumber: "303"}	201 OK
DELETE	/room/delete/{roomid}	Deletes room with the room ID passed in path param	{}	201 OK
GET	/booking	Lists all the bookings	{}	[{roomid: "R01", customerid: "321", fromdate: "08012019", todate: "08102019", status: "paid", amount: "100USD"}]
POST	/booking/add	Creates new booking	{roomid: "R01", customerid: "321", fromdate: "08012019",}	201 OK

			<code>todate: “08102019”, status: “paid”, amount: “100USD”}</code>	
PUT	/booking/cancel/{bookingid}	Updates the booking status as ‘cancel’ for the given bookingid	{}	201OK
GET	/customer	Lists all the customers	{}	[{customerid: “321”, firstname: “John”, lastname: “Iverson”, email: <a href="mailto:jiverson@gmail.com">jiverson@gmail.com</a> phone: “322-233-2121”}]
GET	/customer/{customerid}	Get the customer details for the given customer id	{}	{customerid: “321”, firstname: “John”, lastname: “Iverson”, email: <a href="mailto:jiverson@gmail.com">jiverson@gmail.com</a> phone: “322-233-2121”}
POST	/customer/add	Creates new customer	{customerid: “321”, firstname: “John”, lastname: “Iverson”, email: <a href="mailto:jiverson@gmail.com">jiverson@gmail.com</a> phone: “322-233-2121”}	201 OK
PUT	/customer/update/{customerid}	Updates the customer details of given customer id	{customerid: “321”, firstname: “John”, lastname: “Iverson”, email: <a href="mailto:jiverson@gmail.com">jiverson@gmail.com</a> phone: “322-233-2121”}	201 OK
DELETE	/customer/delete/{customerid}	Deletes the customer with the given customer id	{}	201 OK

### Service layer diagram:

