

# Module #3: Microservice - Design

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## Case Study

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## Case Study

### Problem Statement

A Travel Company Journey.com is building its microservices to be integrated with other service providers. As part of this they want to build two microservices as below

- A service that will give the list of all the hotels for review which they have associations.
- A service to add the hotel to the list.

#### Solution Hints:

You can build such a service using Spring boot and H2 in memory database . Store a list of hotels in database. And build a REST service to retrieve it. You can also build service to add the hotels to the list

Below are the sample request and response for each service.

#### Retrieve a paginated list of hotels

```
http://localhost:8090/hotels?page=0&size=10
```

Response: HTTP 200  
Content: paginated list

#### Update a hotel resource

```
PUT /hotels/1
Accept: application/json
Content-Type: application/json
```

```
{
  "name" : "Journey B&B",
  "description" : " A clean and basic hotel",
  "city" : "Bangalore",
  "rating" : 3
}
```

RESPONSE: HTTP 204 (No Content)

#### Solution Deliverable

A maven spring boot project which can be build using the maven configurations. There would be two service end points URLs, one for adding hotel and other to retrieve the list.