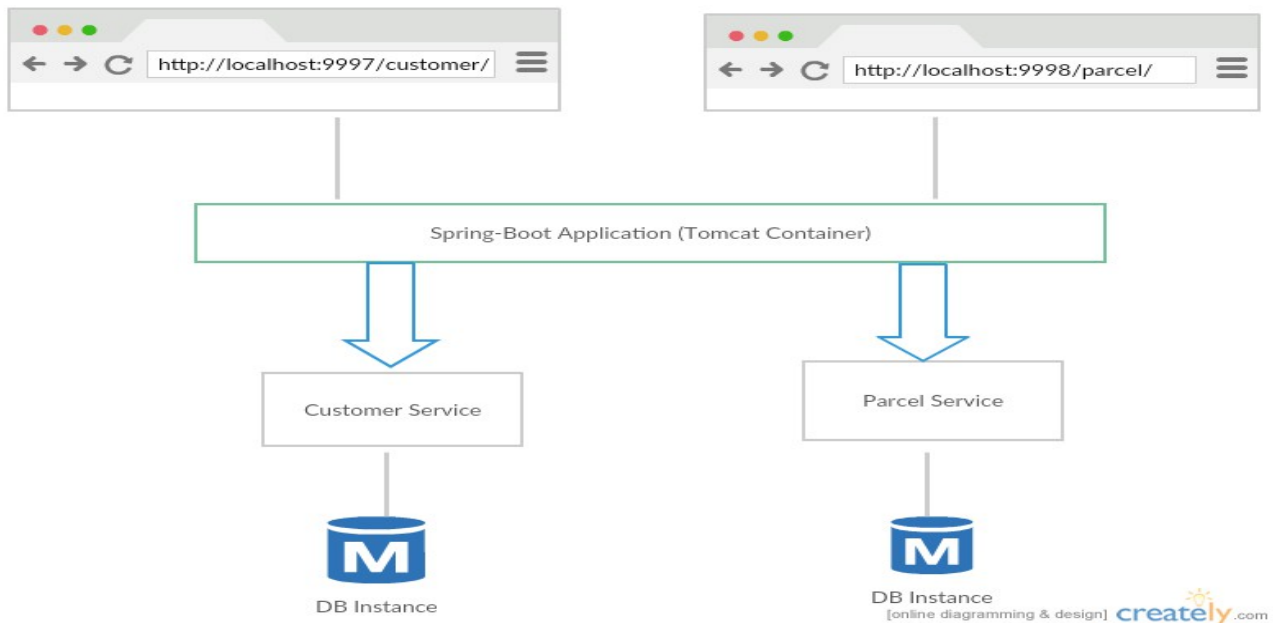


This document is to elaborate the microservice architecture I implemented regarding the task. The abstract diagram is as following:



Not to be redundant, I am not reiterating the problem statement here, there are two services namely; customer and parcel. Customer service is responsible for check In and Out a Customer where the Parcel is responsible for accepting the parcel if a Customer resides.

The technology used to make this assignments are:

1. Spring-Boot
2. H2 in mem DB
3. Swagger2

To run the application, use the following command:

1. `$ java -jar parceltracker customer-service # For running customer-service`
2. `$ java -jar parceltracker parcel-service # For running parcel-service`

By default customer-service is running on port 9997 and parcel-service is running on port 9998. To run open a terminal and run first command, open another window and run the second command.

Testing Curl Commands for Customer-Service :

```
$ curl -X POST http://localhost:9997/customer/checkin -H "Content-Type: application/json" -d "@customer2.json" # For Checking in a Customer
```

```
$ curl -X POST http://localhost:9997/customer/checkout -H "Content-Type: application/json" -d "@customer2checkout.json" # For Checking out a Customer
```

Testing Curl Commands for Parcel-service:

```
$ curl -X POST http://localhost:9998/parcel/accept -H "Content-Type: application/json" -d "@parcel1.json" # For accepting a parcel
```

```
$ curl -X http://localhost:9998/parcel/clear/<roomNumber>/passportId
```

Both Apis are documented via Swagger can be viewed by ui interface at:

<http://localhost:9997/swagger-ui.html>

<http://localhost:9998/swagger-ui.html>

