FALL 2022

C S E 4 0 7 4

C O M P U T E R   N E T W O R K S

Socket Programming
HTTP-based Room Reservation

Prepared by:
İsmail ÖKSÜZ 150119516
Barış HAZAR 150118019
Ulaş Deniz IŞIK 150118887

Marmara University
Faculty Of Engineering
Computer Engineering Department

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Room added succesfully without any error.

Room with name z06 is successfully added.
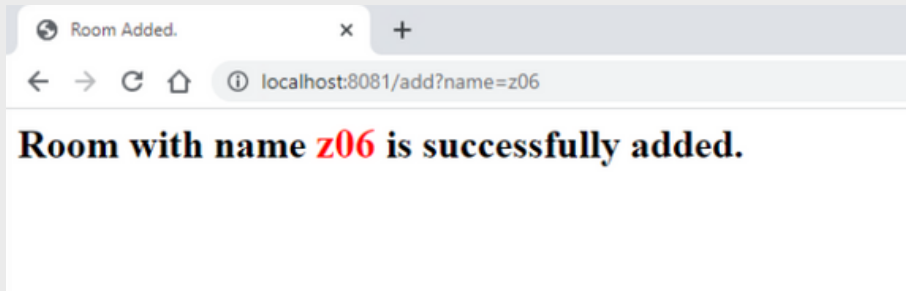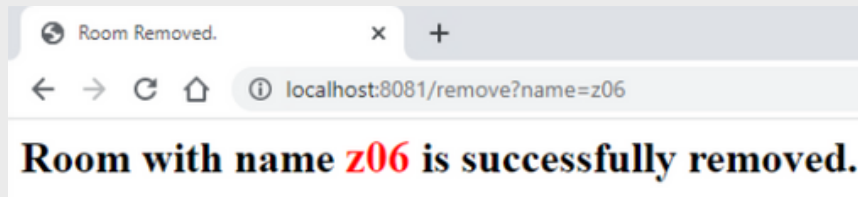
Records are stored in a json file after a room is added.


```
{-} Rooms.json ×
src > room > database > {-} Rooms.json > [ ] records
  1    {
  2        "records": [
  3            {
  4                "name": "z06",
  5                "day_1": {
  6                    "9": null,
  7                    "10": null,
  8                    "11": null,
  9                    "12": null,
 10                    "13": null,
 11                    "14": null,
 12                    "15": null,
 13                    "16": null,
 14                    "17": null
 15                },
 16                "day_2": {
 17                    "9": null,
 18                    "10": null,
 19                    "11": null,
 20                    "12": null,
 21                    "13": null,
 22                    "14": null,
```

Room removed successfully without any error.
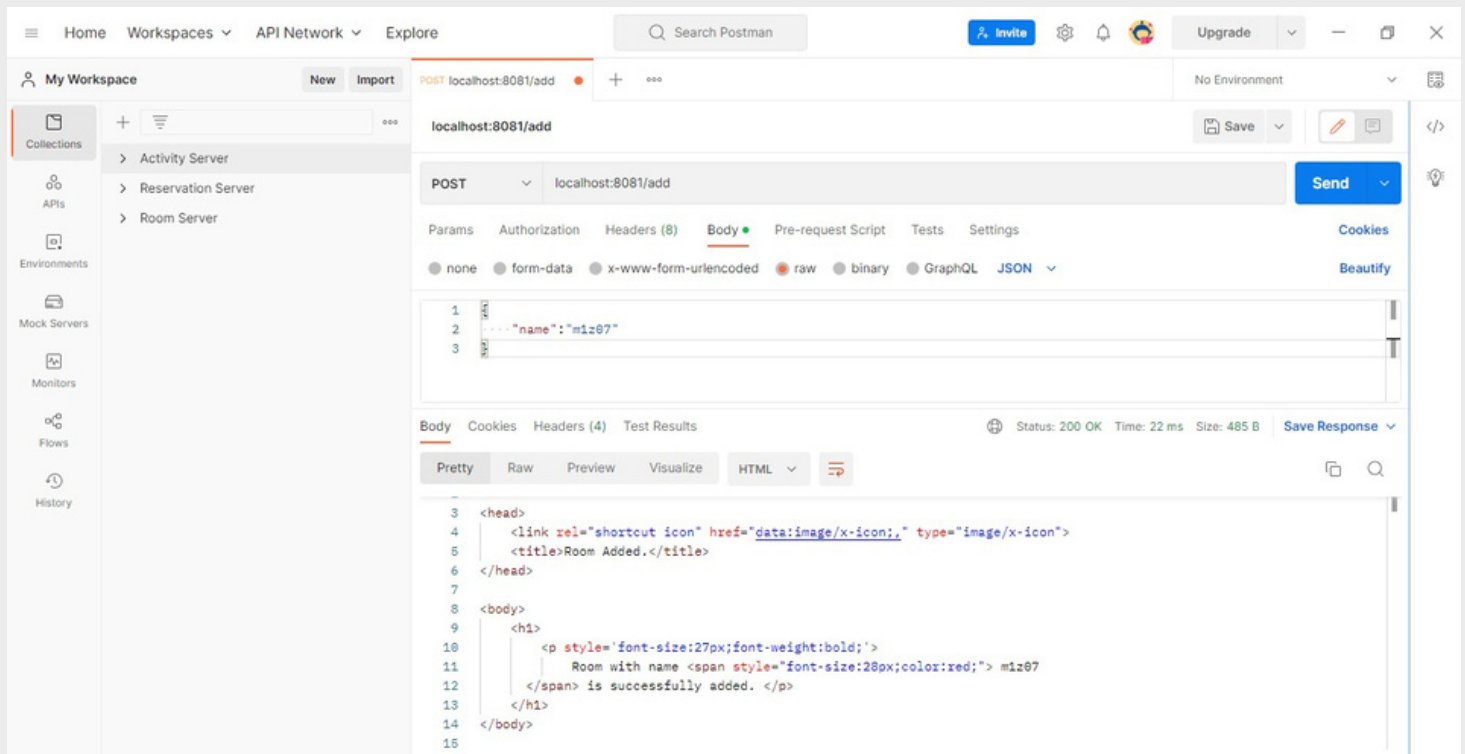

Changed records are stored in a json file after a room is removed.
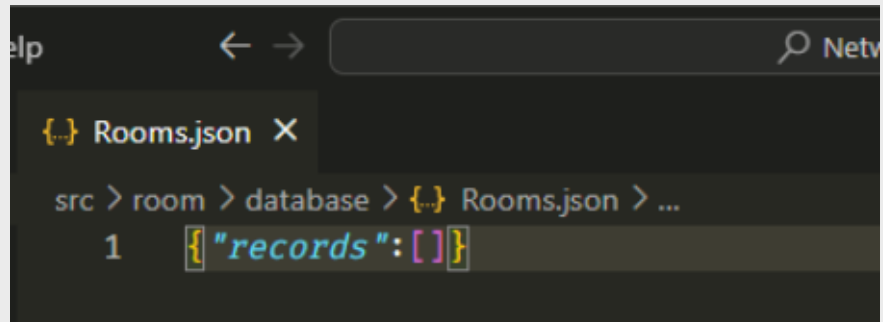
After each reservation process, avaliable hours for the room is listed.

After each reservation process, reserved hours for the room is listed.
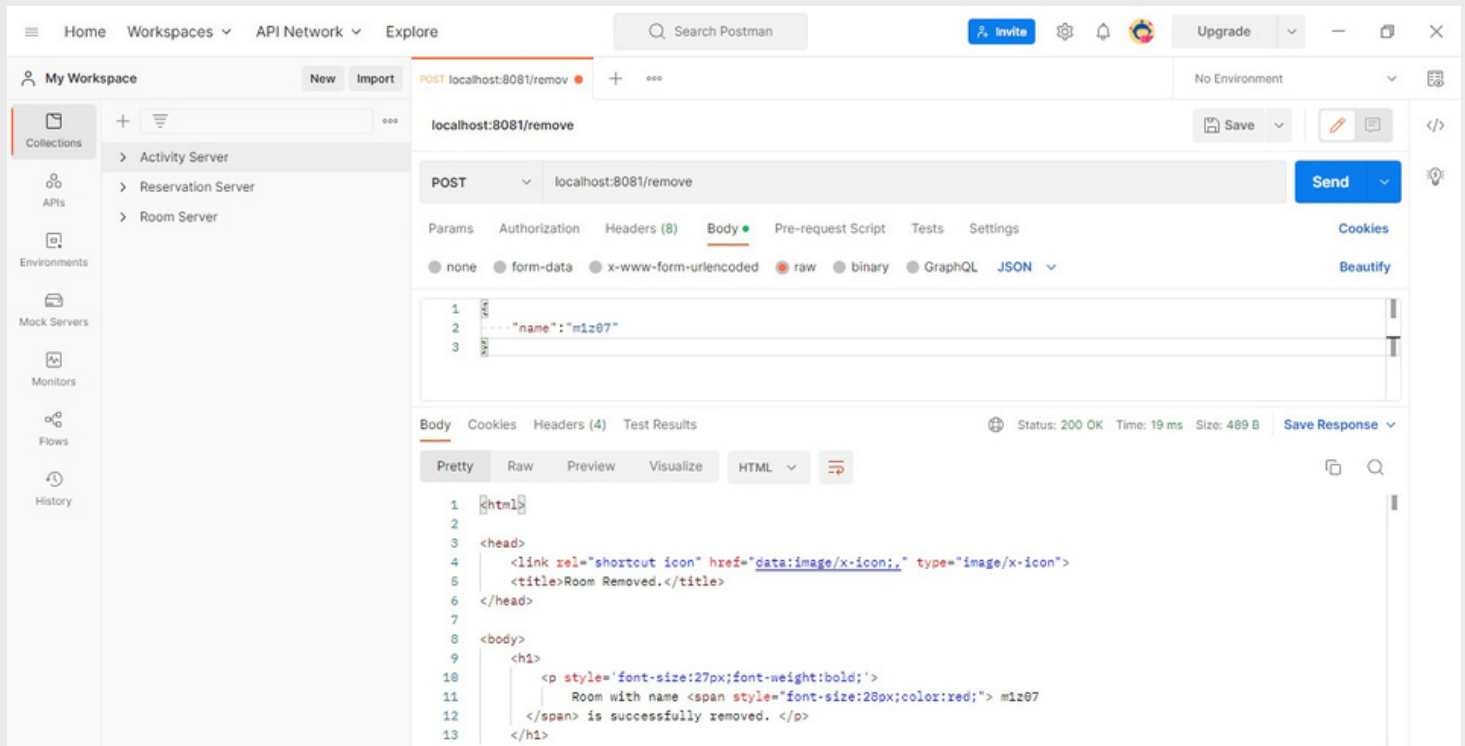
Postman was used for sending post requests
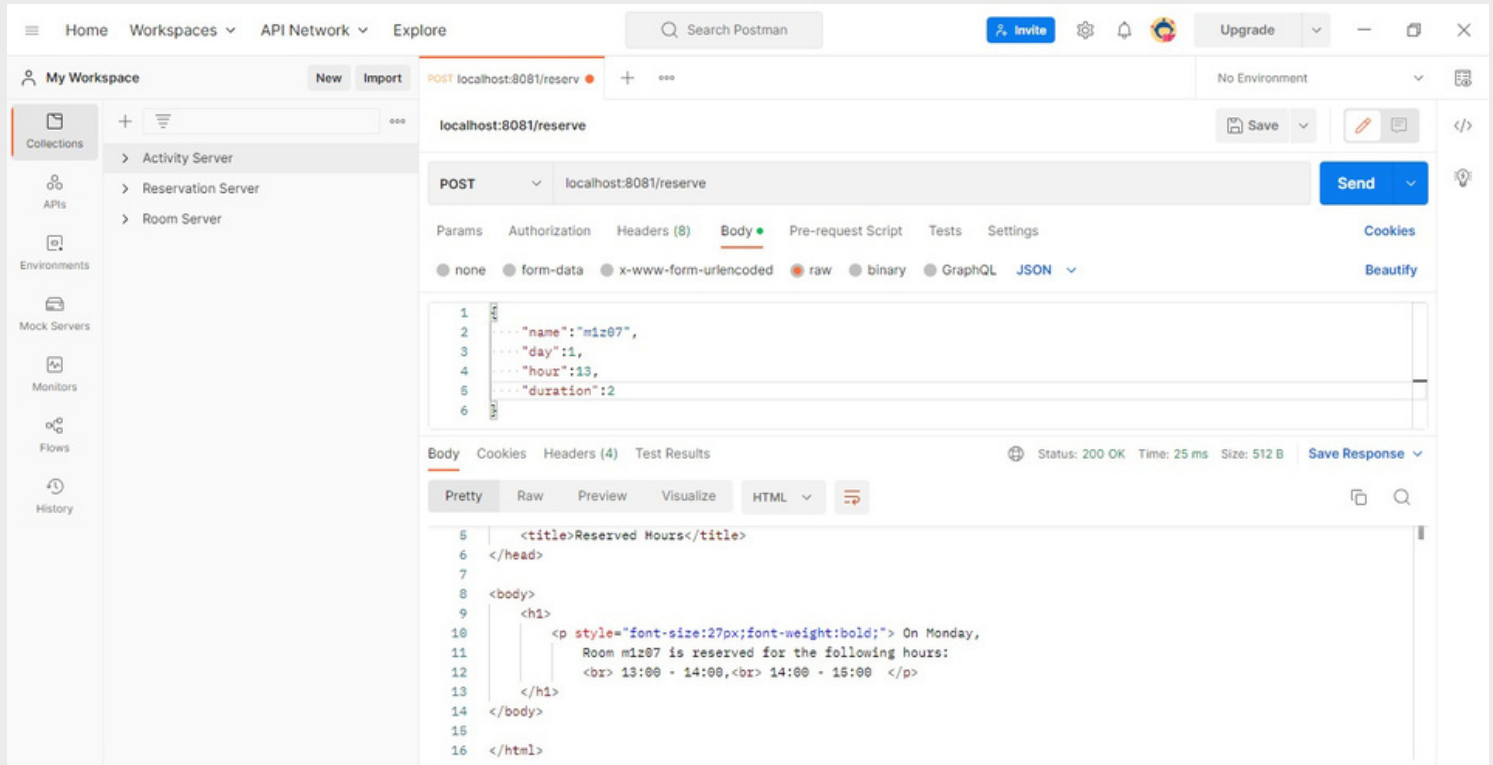
Room "m1z07" added successfully without any error.

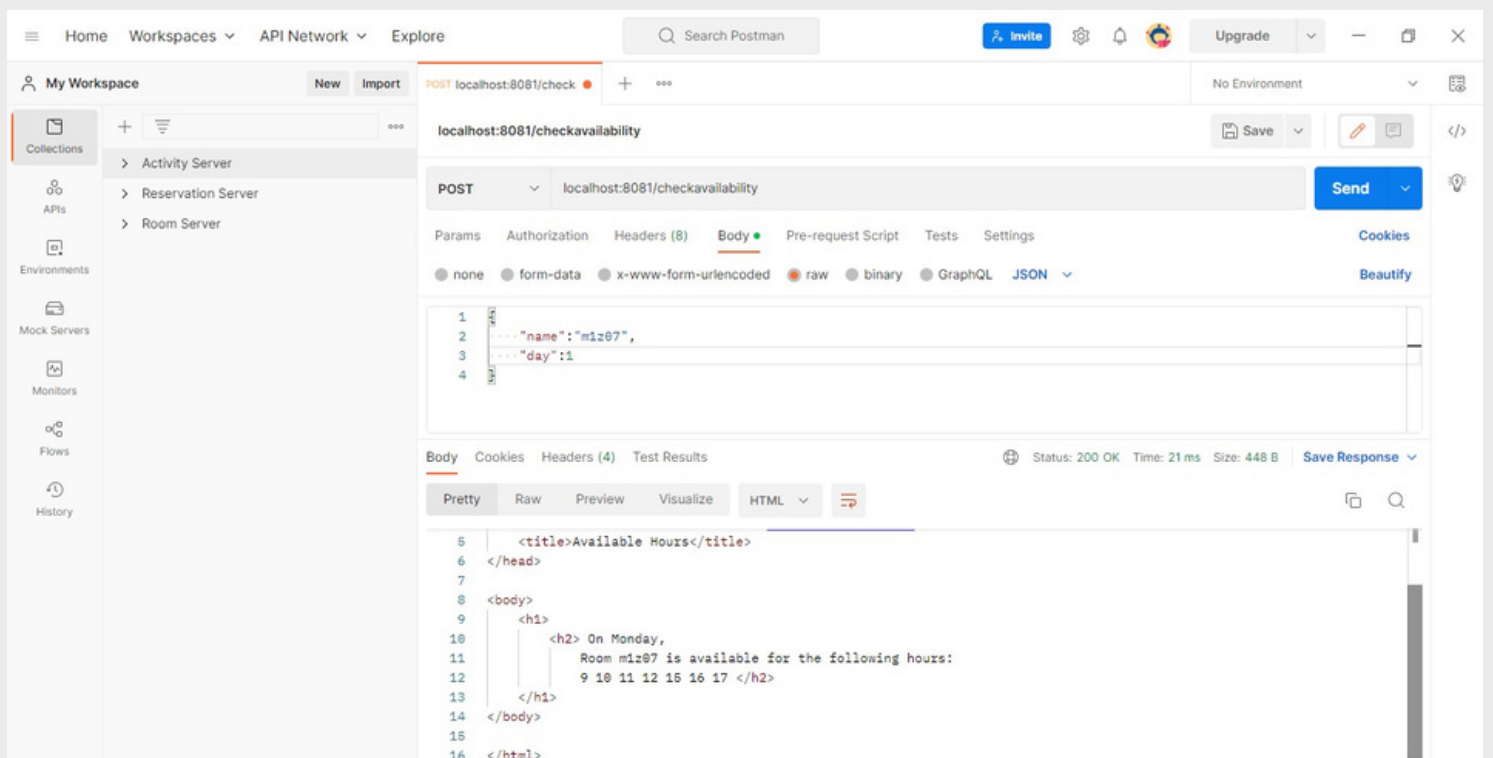**Room "m1z07" removed successfully without any error.**

Postman was used for sending post requests

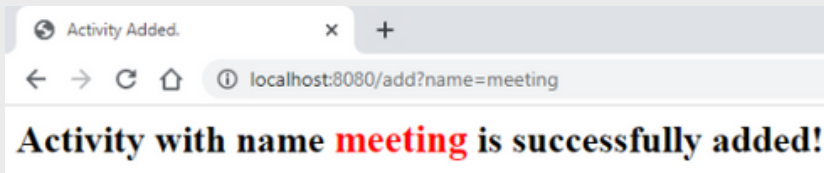## Room "m1z07" reserved on Monday between 13:00-15:00 successfully without any error.
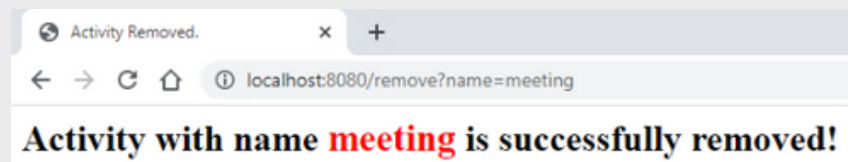

Fetched avaliable hours of the "m1z07" room on Monday.
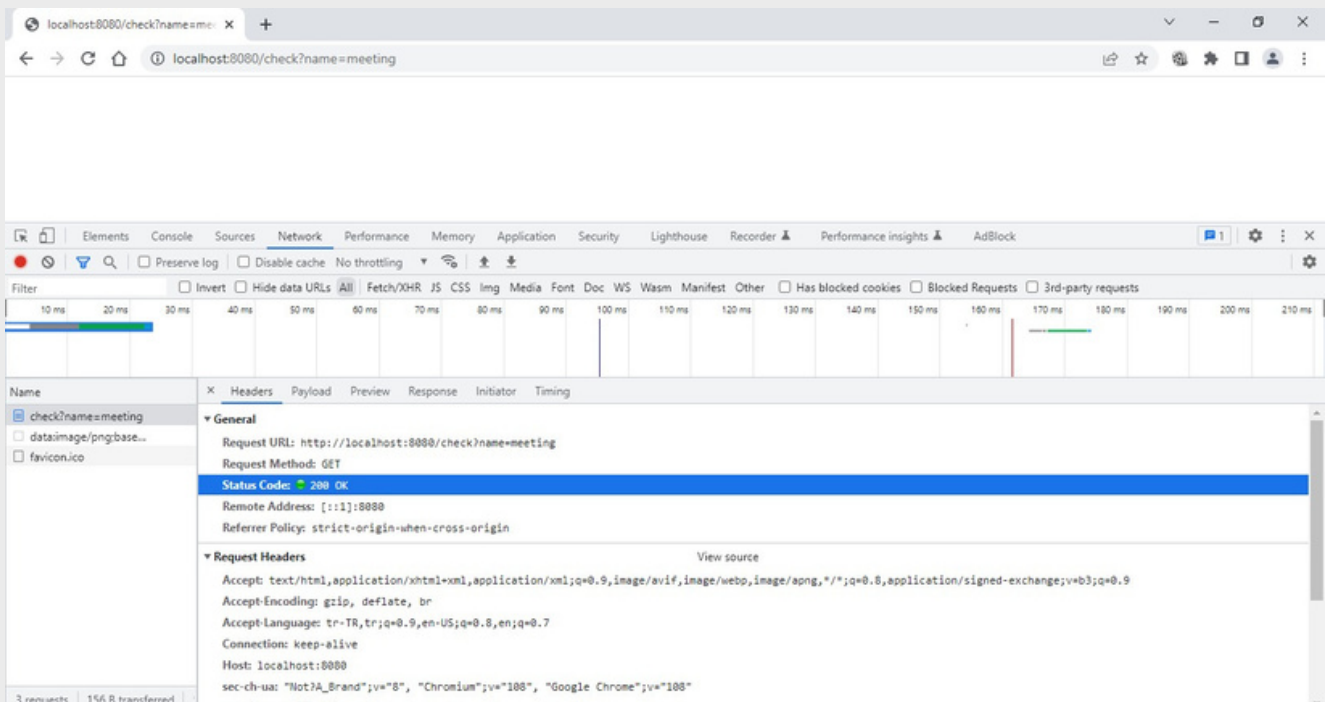
Activity added succesfully without any error.

Activity removed successfully without any error.
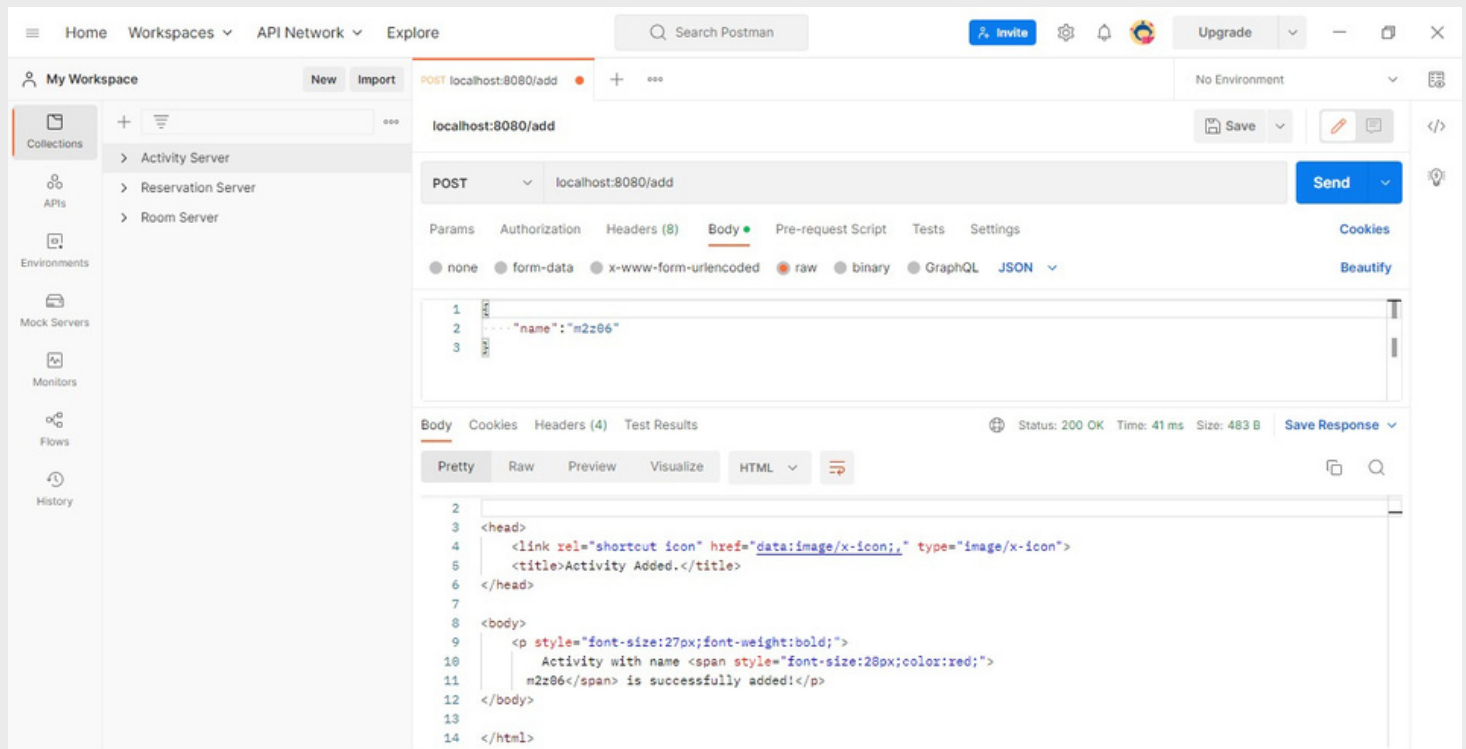

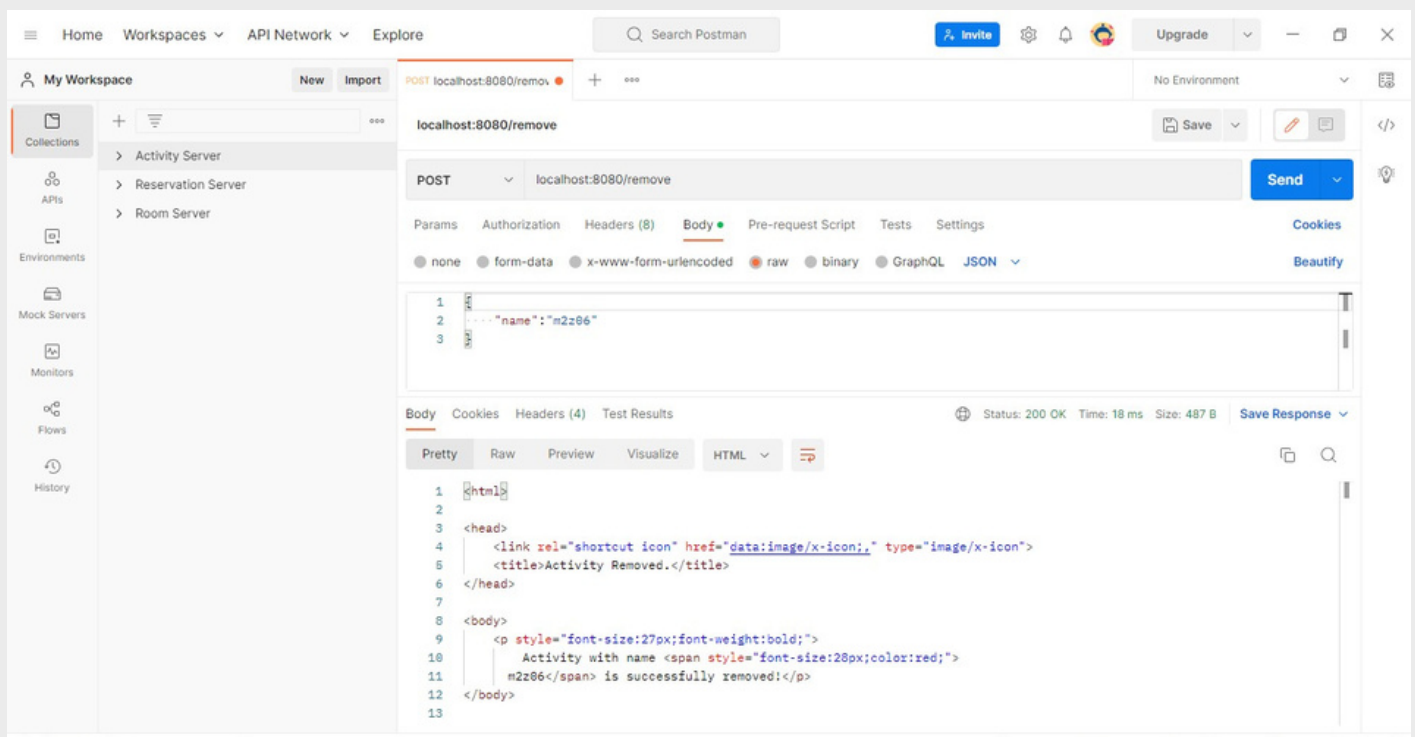**Checking whether an activity exists or not using activity name.**

Postman was used for sending post requests

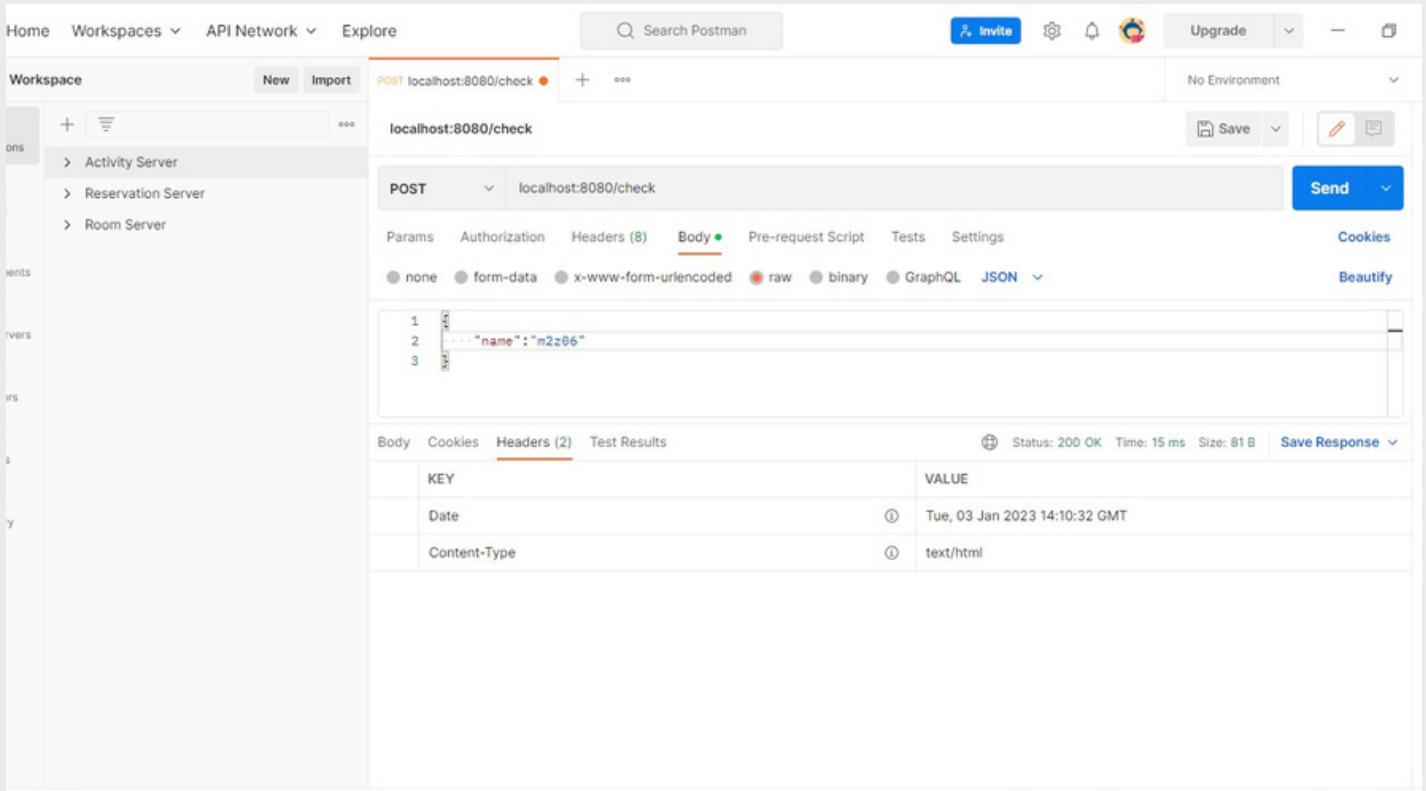## Activity added successfully without any error.
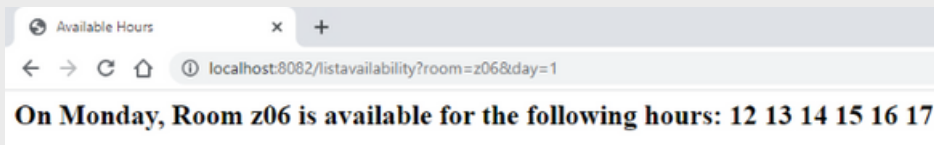

Activity removed successfully without any error.

Postman was used for sending post requests

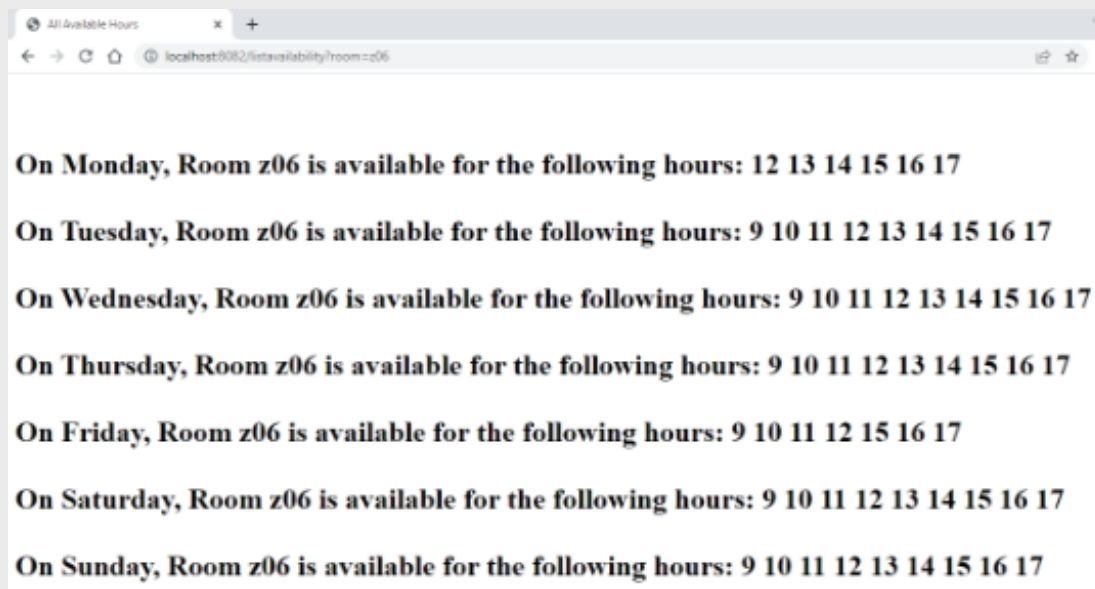**Checking whether an activity exists or not using activity name.**
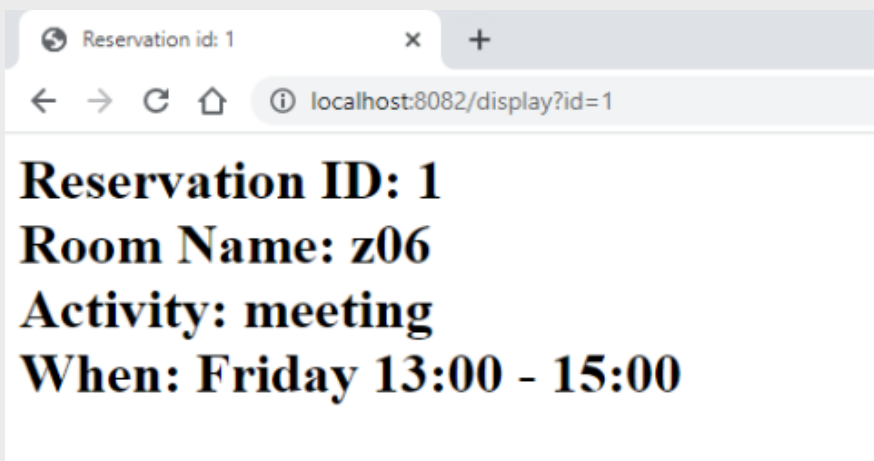
Checks avaliable hours for rooms.

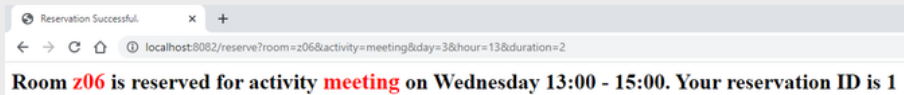On Monday, Room z06 is available for the following hours: 12 13 14 15 16 17

Also, checks the week.

On Monday, Room z06 is available for the following hours: 12 13 14 15 16 17

On Tuesday, Room z06 is available for the following hours: 9 10 11 12 13 14 15 16 17

On Wednesday, Room z06 is available for the following hours: 9 10 11 12 13 14 15 16 17

On Thursday, Room z06 is available for the following hours: 9 10 11 12 13 14 15 16 17

On Friday, Room z06 is available for the following hours: 9 10 11 12 15 16 17

On Saturday, Room z06 is available for the following hours: 9 10 11 12 13 14 15 16 17

On Sunday, Room z06 is available for the following hours: 9 10 11 12 13 14 15 16 17

Checks the reservation by Reservation ID.
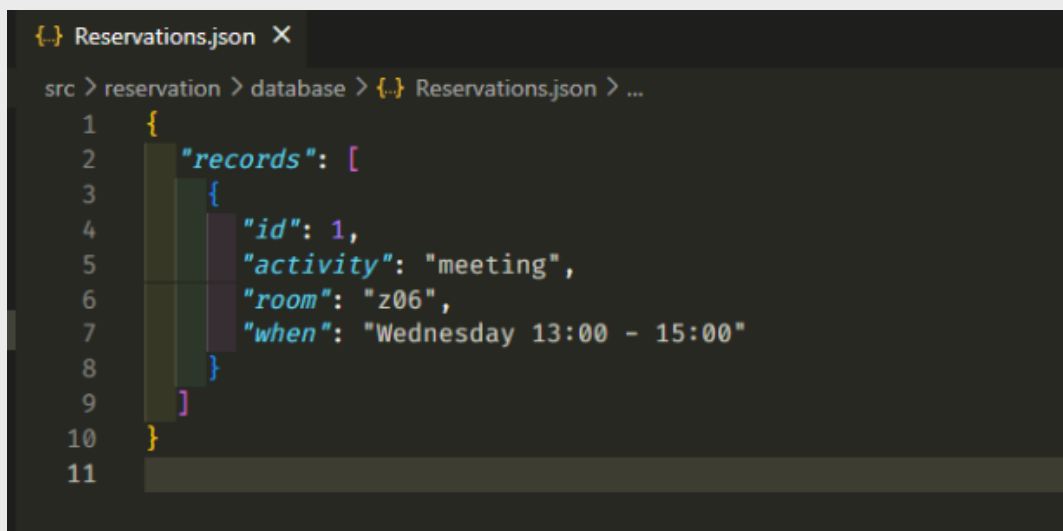
Reservation ID: 1
Room Name: z06
Activity: meeting
When: Friday 13:00 – 15:00

Room name & Activity name & Reservation time
& Reservation ID are shown.

The details (Room name & Activity name &
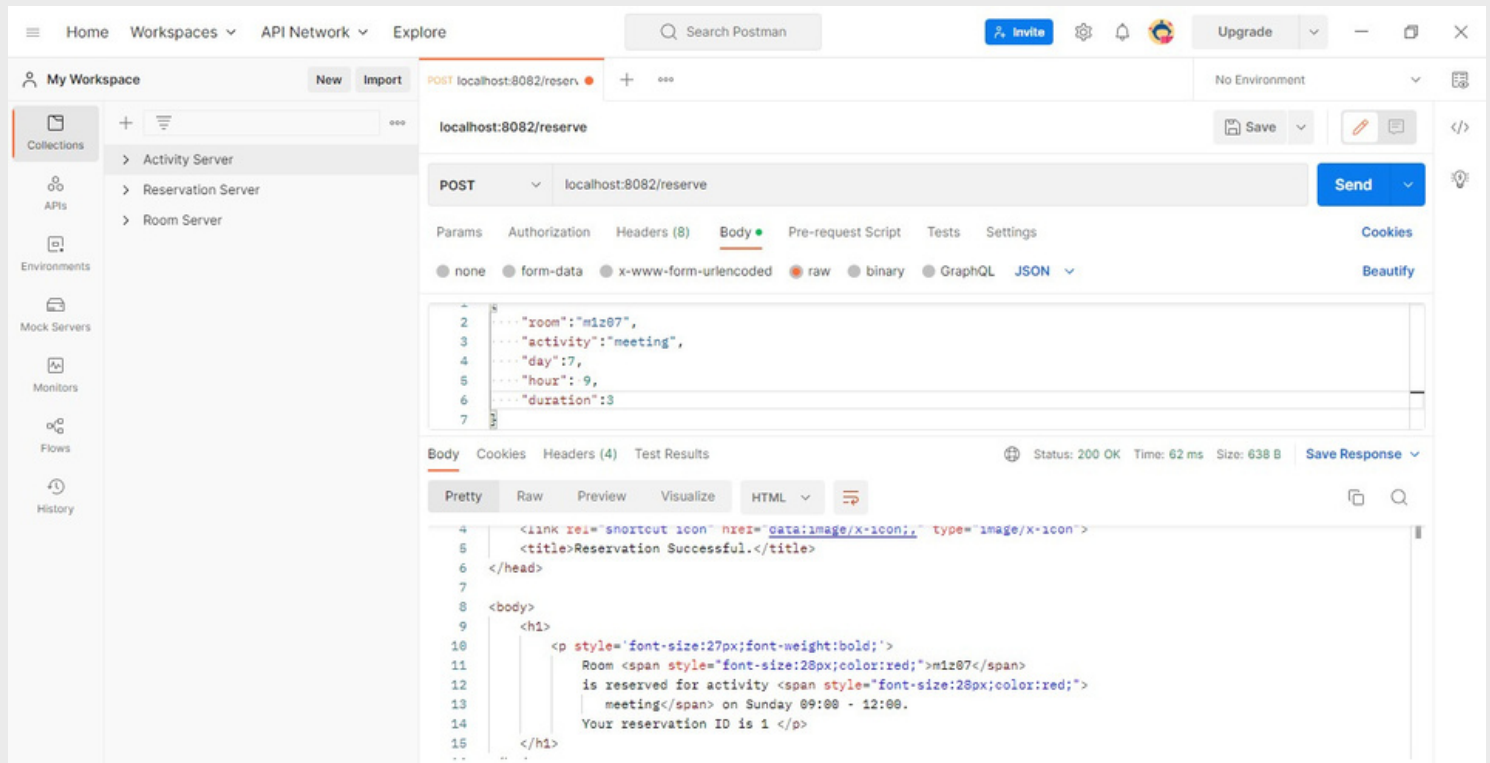Reservation time & Reservation ID) are stored
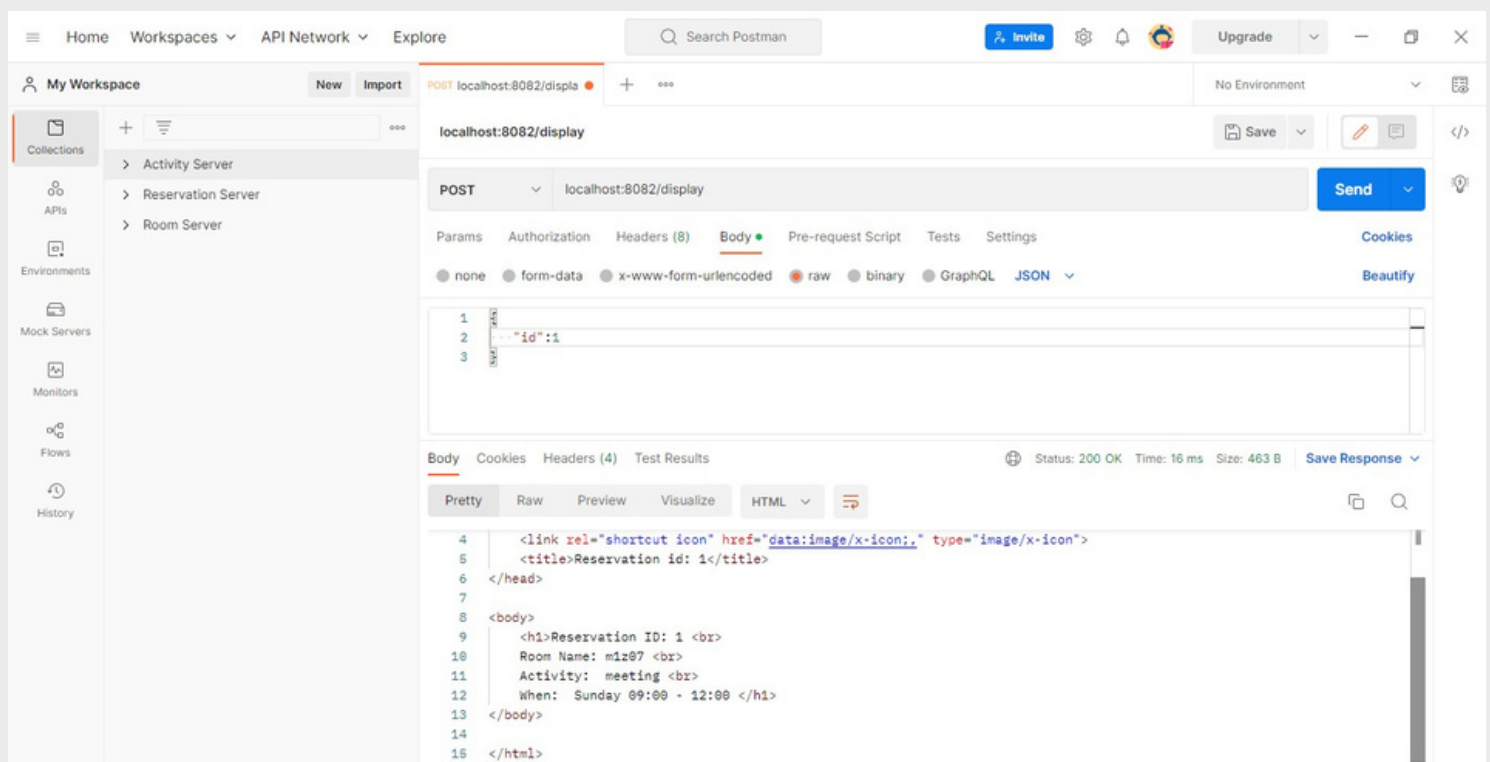in a json file called "Reservation.json".

Postman was used for sending post requests

Room "m1z07" reserved on Sunday between 09:00-12:00 successfully. Reservation ID is 1.
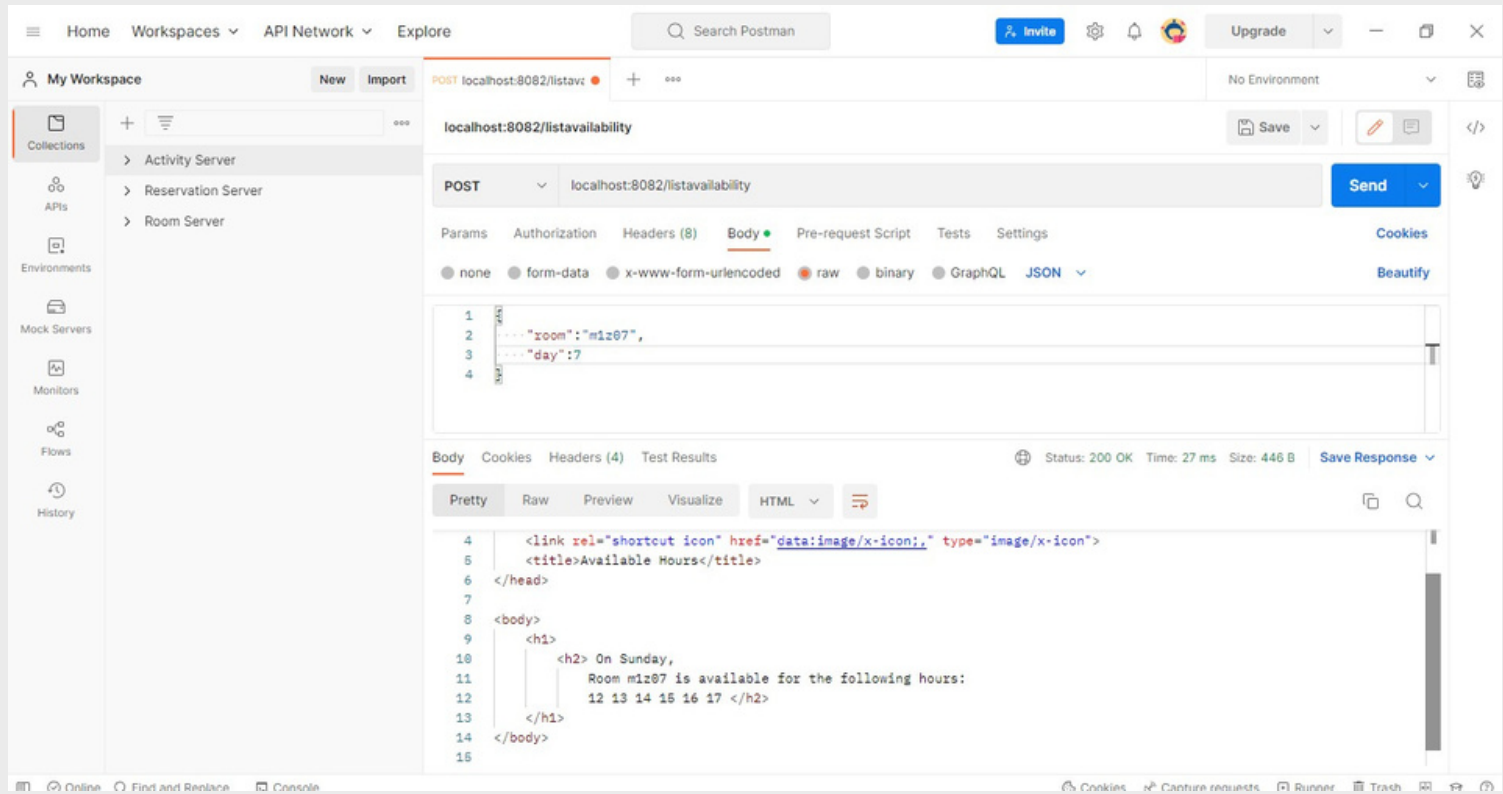

Display the reservation with the Reservation ID 1.

Postman was used for sending post requests

Fetch all available hours of the m1z07 room on Sunday.

Postman was used for sending post requests

Fetch all available hours for all days of the week.