

USABILITY AND DESIGN OF THE SOLUTION:

Problem statement:

- 1) The Receptionist needs a tracking tool that knows to any given time which guests are checked into the hotel and have not checked out, to allow the receptionist to decide whether to accept the parcel or not.
- 2) The Tracking tool should further allow the receptionist to check for parcels available for pick-up when the guest is checking out.

Usability of the solution: -

4 RESTful JSON-APIs are created in order to support the use case

enquiry-controller Enquiry Controller	
POST	/add/guest Insert New Guest
PUT	/checkout/{roomNo} Update Guest while checkout
GET	/guestDetails/checkedIn Get all Guest details checked in
PUT	/updateDetails/{roomNo} Update Guest Record with parcel details

1) /add/guest

POST

/add/guest Insert New Guest

Parameters

request * required
(body)

request

Example Value

Model

```
{  "guestName": "Alex",  "noOfGuests": 3,  "parcelDetailsJson": null,  "roomNo": "102A",  "typeOfRoom": "DeLux"}
```

Cancel

Parameter content type
application/json

The above end point helps in adding new guests to the Database, when new guests are checked into the hotel it accepts details such as <guestName>, <noOfGuests>, <roomNo> etc and allows to save the information in GUEST_DETAILS table.

Request URL

http://localhost:8080/add/guest

Server response

Code	Details
200	<p>Response body</p> <pre>{ "status": "OK", "message": null, "timestamp": 1612979815542, "data": { "guestId": 1, "status": "CHECKED_IN", "roomNo": "102A", "guestName": "Alex", "noOfGuests": 3, "typeOfRoom": "Delux", "checkInTime": "2021-02-11T01:43:36.078", "checkOutTime": null, "parcelDetailsJson": null } }</pre> <p>Download</p>

localhost:8080/h2-console/login.do?sessionId=5be762f1afdd2f2df3e5e51143e633ab

Max rows: 1000 Auto complete Off Auto select On

Run Run Selected Auto complete Clear SQL statement:

SELECT * FROM GUEST_DETAILS

1A

GUEST_ID	CHECK_IN_TIME	CHECK_OUT_TIME	GUEST_NAME	NO_OF_GUESTS	PARCEL_DETAILS_JSON	ROOM_NO	STATUS	TYPE_OF_ROOM
1	2021-02-11 01:43:36.078	null	Alex	3	null	102A	CHECKED_IN	Delux

(1 row, 8 ms)

If we try adding other guest with same room, before the guest checks out. We will get the below error

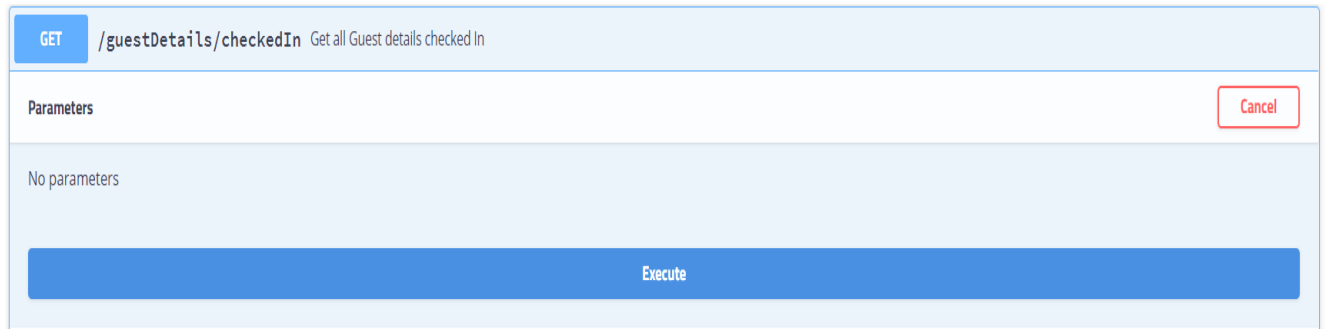
200

Response body

```
{
  "status": "ERROR",
  "message": "Guest already present in Room No: 102A",
  "timestamp": 1612980025200,
  "data": null
}
```

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2) /guestDetails/checkedIn



GET /guestDetails/checkedIn Get all Guest details checked In

Parameters

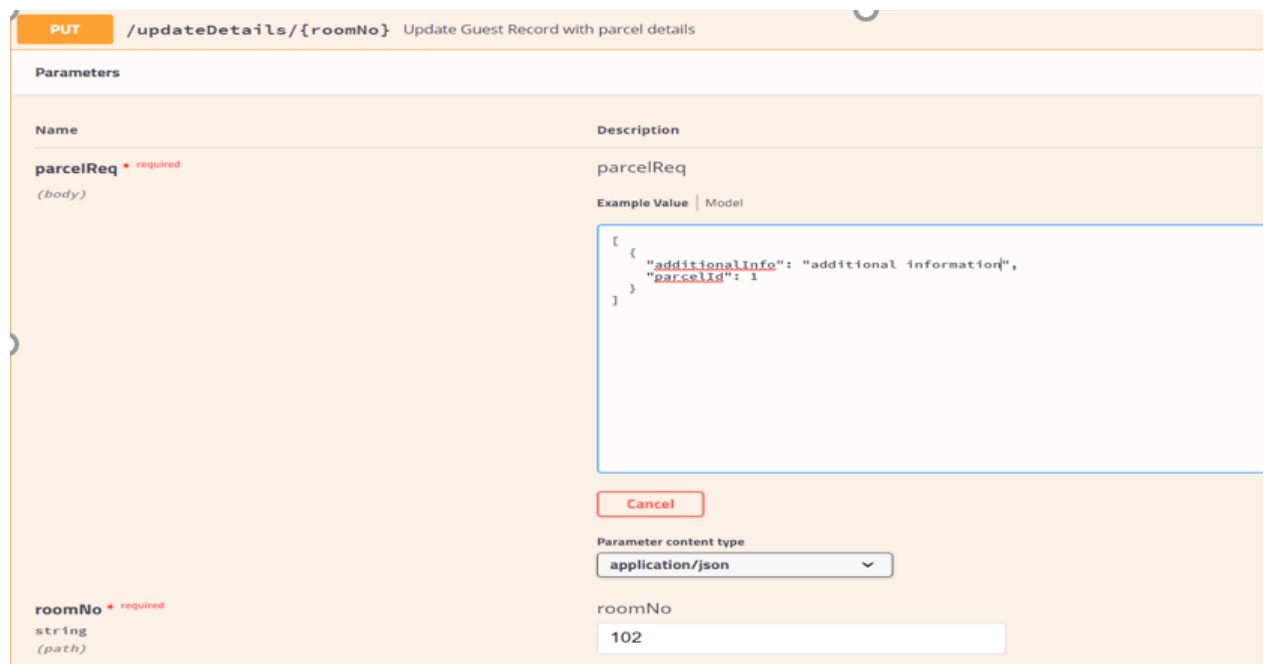
No parameters

Execute

Cancel

The above end point is added to retrieve the details of checked in guests at any given time, to allow the receptionist to decide whether to accept the parcel or not.

3) /updateDetails/{roomNo}



PUT /updateDetails/{roomNo} Update Guest Record with parcel details

Parameters

Name	Description
parcelReq * required (body)	parcelReq Example Value Model
	<pre>{ "additionalInfo": "additional information", "parcelId": 1}</pre>
	Cancel
	Parameter content type application/json
roomNo * required string (path)	roomNo 102

The above end point is added to update the guest details information with parcel details once they receive any parcel.

```
{
  "status": "OK",
  "message": null,
  "timestamp": 1612980270121,
  "data": {
    "guestId": 2,
    "status": "CHECKED_IN",
    "roomNo": "102A",
    "guestName": "Alex",
    "noOfGuests": 3,
    "typeOfRoom": "Delux",
    "checkInTime": "2021-02-11T02:04:07.348",
    "checkOutTime": null,
    "parcelDetailsJson": [
      {
        "parcelId": 1,
        "additionalInfo": "additional information"
      }
    ]
  }
}
```

SELECT * FROM GUEST_DETAILS;

GUEST_ID	CHECK_IN_TIME	CHECK_OUT_TIME	GUEST_NAME	NO_OF_GUESTS	PARCEL_DETAILS_JSON	ROOM_NO	STATUS	TYPE_OF_ROOM
1	2021-02-11 01:43:36.078	2021-02-11 02:03:27.052	Alex	3	null	102A	CHECKED_OUT	Delux
2	2021-02-11 02:04:07.348	null	Alex	3	[{"parcelId":1,"additionalInfo":"additional information"}]	102A	CHECKED_IN	Delux

If no guests are present in the room, it shows the below error

```
{
  "status": "ERROR",
  "message": "No Guest Record with Room No: 111 and status: CHECKED_IN",
  "timestamp": 1612980134446,
  "data": null
}
```

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4) /checkout/{roomNo}

PUT /checkout/{roomNo} Update Guest while checkout

Parameters Cancel

Name	Description
roomNo required string (path)	roomNo <input type="text" value="102A"/>

Execute
Clear

The Above end point is added while the guest checkouts of hotel. It helps to retrieve user information and changes the status to "CHECKED_OUT. This allow the receptionist to check for parcels available for pick-up when the guest is checking out.

```
{
  "status": "OK",
  "message": null,
  "timestamp": 1612986353371,
  "data": {
    "guestId": 2,
    "status": "CHECKED_OUT",
    "roomNo": "102A",
    "guestName": "Alex",
    "noOfGuests": 3,
    "typeOfRoom": "Delux",
    "checkInTime": "2021-02-11T02:04:07.348",
    "checkOutTime": "2021-02-11T02:05:53.379",
    "parcelDetailsJson": [
      {
        "parcelId": 1,
        "additionalInfo": "additional information"
      }
    ]
  }
}
```

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SELECT * FROM GUEST_DETAILS;

GUEST_ID	CHECK_IN_TIME	CHECK_OUT_TIME	GUEST_NAME	NO_OF_GUESTS	PARCEL_DETAILS_JSON	ROOM_NO	STATUS	TYPE_OF_ROOM
1	2021-02-11 01:43:36.078	2021-02-11 02:03:27.052	Alex	3	null	102A	CHECKED_OUT	Delux
2	2021-02-11 02:04:07.348	2021-02-11 02:05:53.379	Alex	3	[{"parcelId":1,"additionalInfo":"additional information"}]	102A	CHECKED_OUT	Delux

(2 rows, 8 ms)

Design Of the solution:

