



# 471 API collection

API for the bus management project for CPSC 471 Group 20. Written in php. Runs on a localhost, with api files located at finalProject471/website/ and using a database located at localhost/471project. All requests are POST requests and accept form data as input, and output a json object.

## POST Verify Route

```
http://localhost/finalProject471/website/verifyRoute.php
```

Verifies that the bus route with this route\_no exists. Outputs status of the request to 'status'. 'true' means that it exists, otherwise it will give you the appropriate error message.

BODY formdata

### Route\_no

2

The route number

Example Request

Verify Route

```
curl --location --request POST 'http://localhost/finalProject471/website/verifyRoute.php' \  
--form 'Route_no=2'
```

Example Response

200 OK

Body Headers (7)

```
{  
  "status": "true"  
}
```

[Documentation Settings](#) ▼

## POST Get Bus

```
http://localhost/finalProject471/website/getBus.php
```

Verifies that the bus with this bus\_no exists and returns it. Outputs status of the request to 'status'. 'true' means that it exists, otherwise it will give you the appropriate error message. Other outputs: 'Vehicle\_id' is the bus\_no, and 'Model\_no' is the bus type

BODY formdata

### bus\_no

200

The bus number (Vehicle\_id)

Example Request

Get Bus

```
curl --location --request POST 'http://localhost/finalProject471/website/getBus.php' \  
--form 'bus_no=200'
```

Example Response

200 OK

Body Headers (7)

```
{  
  "Vehicle_id": 200,  
  "Model_no": 1000,  
  "status": "true"  
}
```

## POST Verify Bus Driver

http://localhost/finalProject471/website/verifyBusDriver.php

Documentation Settings

Checks if a bus driver exist with the user name and password provided. Returns the status of the operation to 'status'. 'true' means that it exists, otherwise it will give you the appropriate error message.

BODY formdata

#### Password

jsmith

Bus Driver Password

#### DriverID

1

Bus Driver Driver ID

Example Request

Verify Bus Driver

```
curl --location --request POST 'http://localhost/finalProject471/website/verifyBusDriver.php' \
--form 'Password=jsmith' \
--form 'DriverID=1'
```

Example Response

200 OK

Body Headers (7)

```
{
  "status": "true"
}
```

## POST Verify Admin

http://localhost/finalProject471/website/verifyAdmin.php

Checks if an administrator exists with the user name and password provided. Returns the status of the operation to 'status'. 'true' means that it exists, otherwise it will give you the appropriate error message.

---

**BODY** formdata

---

[Documentation Settings](#) ▼**Password**

jburke

Admin Password

**AdminID**

1

Admin ID

## Example Request

Verify Admin

```
curl --location --request POST 'http://localhost/finalProject471/website/verifyAdmin.php' \
--form 'Password=jburke' \
--form 'AdminID=1'
```

## Example Response

200 OK

**Body** Headers (7)

```
{
  "status": "true"
}
```

## POST Insert Route Instance

http://localhost/finalProject471/website/insertRouteInstance.php

Creates a new route\_instance for the current date and time, using the specified route in 'Route\_no', bus driver in 'DriverID', and bus in 'Vehicle\_id' (all primary keys) Outputs status of the request to 'status'. 'true' means that the insert was successful, otherwise it will give you the appropriate error message. Also outputs the primary key of the created route instance as follows: 'Route\_no' is the route number, 'Date' is the date, 'Start\_time' is the start time.

---

**BODY** formdata

---

**Vehicle\_id** 200[Documentation Settings](#) ▼

The vehicle\_id (primary key for bus)

**DriverID**

1

The driver\_id (primary key for bus driver)

**Route\_no**

2

The route number (primary key for route)

## Example Request

Insert Route Instance

```
curl --location --request POST 'http://localhost/finalProject471/website/insertRouteInstance.php' \  
--form 'Vehicle_id=200' \  
--form 'DriverID=1' \  
--form 'Route_no=2'
```

## Example Response

200 OK

**Body** Headers (7)

```
{  
  "Route_no": "2",  
  "Date": "2020/12/07",  
  "Start_time": "13:54:20",  
  "status": "true"  
}
```

## POST Get Bus Type

http://localhost/finalProject471/website/getBusType.php

Verifies that the bus\_type with this Model\_no exists and returns it. Outputs status of the request to 'status'. 'true' means that it exists, otherwise it will give you the appropriate error message. Other outputs: 'Model\_no' is the model number, 'No\_of\_rows' is the number of rows, and 'No\_of\_cols' is the number of columns



BODY formdata

**Model\_no**

1000

The bus type model number (primary key)

## Example Request

Get Bus Type

```
curl --location --request POST 'http://localhost/finalProject471/website/getBusType.php' \
--form 'Model_no=1000'
```

## Example Response

200 OK

Body Headers (7)

```
{
  "Model_no": 1000,
  "No_of_rows": 6,
  "No_of_cols": 4,
  "status": "true"
}
```

**POST insertSeat**<http://localhost/finalProject471/website/insertSeat.php>

Creates a new seat for the route\_instance, using the specified route\_instance in 'Route\_no', 'Date', 'Start\_time', and the row and column specified by 'Row' and 'Column' Outputs status of the request to 'status'. 'true' means that the insert was successful, otherwise it will give you the appropriate error message. Note that the route instance must already exist in order for this insert to work.

BODY formdata

**Route\_no**

2

The route instance route number



Documentation Settings ▼

### Date

2020/12/07

The route instance date (format yyyy/mm/dd)

### Start\_time

13:54:20

The route instance start time (format hh:mm:ss, 24 hour time)

### Row

3

Seat Row ( integer >= 1)

### Column

1

Seat Column ( integer >= 1)

### Example Request

insertSeat

```
curl --location --request POST 'http://localhost/finalProject471/website/insertSeat.php' \  
--form 'Route_no=2' \  
--form 'Date=2020/12/07' \  
--form 'Start_time=13:54:20' \  
--form 'Row=4' \  
--form 'Column=1'
```

### Example Response

200 OK

Body   Headers (7)

```
{  
  "status": "true"  
}
```

## POST Insert In Proximity

http://localhost/finalProject471/website/insertInProximity.php

Documentation Settings ▼

Sets two seats on the same route instance to be in proximity, using the specified route\_instance in 'Route\_no','Date','Start\_time', and the rows and columns specified by 'Row1', 'Column1', 'Row2' and 'Column2' Outputs status of the request to 'status'. 'true' means that the insert was successful, otherwise it will give you the appropriate error message. Note that both seats and the route instance must already exist in order for this to work.

BODY formdata

**Route\_no**

2

The route number of the route instance these seats are on

**Date**

2020/12/07

The date of the route instance these seats are on (format yyyy/mm/dd)

**Start\_time**

13:54:20

The time of the route instance these seats are on (format hh:mm:ss, 24 hour)

**Row1**

4

Row of seat 1

**Column1**

1

Column of seat 1

**Row2**

3

Row of seat 2

**Column2**

1

Column of seat 2



 Example RequestDocumentation Settings 

```
curl --location --request POST 'http://localhost/finalProject471/website/insertInProximity.php' \  
--form 'Route_no=2' \  
--form 'Date=2020/12/07' \  
--form 'Start_time=13:54:20' \  
--form 'Row1=4' \  
--form 'Column1=1' \  
--form 'Row2=3' \  
--form 'Column2=1'
```

Example Response

200 OK

Body

Headers (7)

```
{  
  "status": "true"  
}
```

## POST Get Seats on Route Instance

http://localhost/finalProject471/website/getSeatOnRouteInstance.php

Gets all the seats for a specified route instance. Inputs: Route\_no is the route number Date is the date Start\_time is the start time Outputs status of the request to 'status'. 'true' means that there are tuples returned, otherwise it will give you the appropriate error message.

BODY formdata

**Route\_no**

1

The route instance's route number

**Date**

2020/12/08

The route instance's date (format yyyy/mm/dd)

**Start\_time**

08:00:00

The route instance's start time (format hh:mm:ss)



## Example Request

Get Seats on Route Instance

```
curl --location --request POST 'http://localhost/finalProject471/website/getSeatOnRouteInstance.php' \
--form 'Route_no=1' \
--form 'Date=2020/12/08' \
--form 'Start_time=08:00:00'
```

## Example Response

200 OK

**Body** Headers (7)

```
{
  "Route_no": "1",
  "Date": "2020/12/08",
  "Start_time": "08:00:00",
  "Tuples": [
    {
      "Row": 1,
      "Column": 1
    },
    {
```

[View More](#)

## POST Get Passenger Seats on Route Instance

```
http://localhost/finalProject471/website/getPassengerSeatOnRouteInstance.php
```

Gets all the seats for a specified route instance. Inputs: Route\_no is the route number Date is the date Start\_time is the start time Outputs status of the request to 'status'. 'true' means that there are tuples returned, otherwise it will give you the appropriate error message.

BODY formdata

**Route\_no**

1

The route instance's route number

**Date**

2020/12/08

The route instance's date (format yyyy/mm/dd)



Documentation Settings ▼

### Start\_time

08:00:00

The route instance's start time (format hh:mm:ss, 24 hour time)

#### Example Request

Get Passenger Seats on Route Instance

```
curl --location --request POST 'http://localhost/finalProject471/website/getPassengerSeatOnRouteInstance.php' \
--form 'Route_no=1' \
--form 'Date=2020/12/08' \
--form 'Start_time=08:00:00'
```

#### Example Response

200 OK

Body Headers (7)


```
{
  "Route_no": "1",
  "Date": "2020/12/08",
  "Start_time": "08:00:00",
  "Tuples": [
    {
      "Seat_row": 1,
      "Seat_col": 1,
      "Employee_id": 1
    }
  ]
}
```

View More

## POST Get Passenger Seat

http://localhost/finalProject471/website/getPassengerSeat.php

Verifies that the passenger\_seat exists and returns it Outputs status of the request to 'status'. 'true' means that it exists, otherwise it will give you the appropriate error message. Inputs: \$\_POST["Route\_no"] is the route number \$\_POST["Date"] is the date \$\_POST["Start\_time"] is the start time \$\_POST["Seat\_row"] is the seat row \$\_POST["Seat\_col"] is the seat column Outputs: the listed variables above, as well as status and Employee\_id (the employee in that seat)

 BODY formdata

Documentation Settings ▼

### Route\_no

1

The route number

### Date

2020/12/08

The date (format yyyy/mm/dd)

### Start\_time

08:00:00

The start time (format hh:mm:ss, 24 hour time)

### Seat\_row

1

The seat row

### Seat\_col

1

The seat column

Example Request

Get Passenger Seat

```
curl --location --request POST 'http://localhost/finalProject471/website/getPassengerSeat.php' \  
--form 'Route_no=1' \  
--form 'Date=2020/12/08' \  
--form 'Start_time=08:00:00' \  
--form 'Seat_row=1' \  
--form 'Seat_col=1'
```

Example Response

200 OK

Body Headers (7)

```
{  
  "Employee_id": 1,  
  "Route_no": "1",  
  "Date": "2020/12/08",  
  "Start_time": "08:00:00",  
  "Seat_row": "1",  
  "Seat_col": "1",  
  "status": "true"  
}
```

[Documentation Settings](#) ▼

## POST Verify Passenger Seat

<http://localhost/finalProject471/website/verifyPassengerSeat.php>

Verifies that the passenger\_seat exists for an employee on this route instance and returns it. Outputs status of the request to 'status'. 'true' means that it exists, otherwise it will give you the appropriate error message. Inputs: Route\_no is the route number, Date is the date, Start\_time is the start time, Employee\_id is the employee id. Outputs: the listed variables above, as well as status, seat row to 'Seat\_row' and seat column to 'Seat\_col'.

BODY formdata

### Route\_no

1

The route number

### Date

2020/12/08

The date (format yyyy/mm/dd)

### Start\_time

08:00:00

The route start time (format hh:mm:ss, 24 hour time)

### Employee\_id

4

The employee id



## Example Request

Verify Passenger Seat

```
curl --location --request POST 'http://localhost/finalProject471/website/verifyPassengerSeat.php' \
--form 'Route_no=1' \
--form 'Date=2020/12/08' \
--form 'Start_time=08:00:00' \
--form 'Employee_id=4'
```

## Example Response

200 OK

Body   Headers (7)

```
{
  "Employee_id": "4",
  "Route_no": "1",
  "Date": "2020/12/08",
  "Start_time": "08:00:00",
  "Seat_row": 2,
  "Seat_col": 3,
  "status": "true"
}
```

## POST Get Passenger

http://localhost/finalProject471/website/getPassenger.php

Verifies that an employee exists with the employee id 'Employee\_id', and returns their information. Outputs status of the request to 'status'. 'true' means that it exists, otherwise it will give you the appropriate error message.

BODY formdata

### Employee\_id

1

The employee id

## Example Request

```
curl --location --request POST 'http://localhost/finalProject471/website/getPassenger.php' \
--form 'Employee_id=1'
```

## Example Response

200 OK

Body Headers (7)

```
{
  "Employee_id": "1",
  "First_name": "Adam",
  "Last_name": "Chan",
  "Department": "Marketing",
  "Admin_id": 1,
  "status": "true"
}
```

## POST Insert Boards At

```
http://localhost/finalProject471/website/insertBoardsAt.php
```

Creates a new instance of boards\_at, using the specified location in 'Address', the passenger given by 'Employee\_id', and the boarding time given by "Boarding\_time" Outputs status of the request to 'status'. 'true' means that the insert was successful, otherwise it will give you the appropriate error message.

BODY urlencoded

**Address**

123 Apple Road

The boarding location

**Employee\_id**

15

The passenger's employee id

**Boarding\_time**

09:20:59

The boarding time



## Example Request

Insert Boards At

```
curl --location --request POST 'http://localhost/finalProject471/website/insertBoardsAt.php' \
--data-urlencode 'Address=123 Apple Road' \
--data-urlencode 'Employee_id=15' \
--data-urlencode 'Boarding_time=09:20:59'
```

## Example Response

200 OK

Body Headers (7)

```
{
  "status": "true"
}
```

## POST Insert Disembarks At

`http://localhost/finalProject471/website/insertDisembarksAt.php`

Creates a new instance of disembarks\_at, using the specified location in 'Address', the passenger given by 'Employee\_id', and the disembark time given by "disembark\_time" Outputs status of the request to 'status'. 'true' means that the insert was successful, otherwise it will give you the appropriate error message.

BODY urlencoded

**Address**

123 Apple Road

The boarding location

**Employee\_id**

15

The passenger's employee id

**Disembark\_time**

09:20:55

The disembark time





## Example Request

Insert Disembarks At

```
curl --location --request POST 'http://localhost/finalProject471/website/insertDisembarksAt.php' \
--data-urlencode 'Address=123 Apple Road' \
--data-urlencode 'Employee_id=15' \
--data-urlencode 'Disembark_time=09:20:55'
```

## Example Response

200 OK

Body Headers (7)

```
{
  "status": "true"
}
```

## POST Insert Passenger Seat

<http://localhost/finalProject471/website/insertPassengerSeat.php>

Creates a new passenger\_seat for the route\_instance, using the specified route\_instance in 'Route\_no','Date','Start\_time', the passenger with employee id 'Employee\_id', and the row and column specified by 'Row' and 'Column' Outputs status of the request to 'status'. 'true' means that the insert was successful, otherwise it will give you the appropriate error message.

BODY formdata

**Route\_no**

2

The route number

**Date**

2020/12/07

Date (format yyyy/mm/dd)

**Start\_time**

14:43:11

Time (format hh:mm:ss, 24 hour time)



Documentation Settings ▼

Row

4

The seat row ( integer >= 1)

Column

1

The seat column ( integer >= 1)

Employee\_id

12

The employee id

Example Request

Insert Passenger Seat

```
curl --location --request POST 'http://localhost/finalProject471/website/insertPassengerSeat.php' \
--form 'Route_no=2' \
--form 'Date=2020/12/07' \
--form 'Start_time=14:43:11' \
--form 'Row=4' \
--form 'Column=1' \
--form 'Employee_id=12'
```

Example Response

200 OK

Body    Headers (7)

```
{
  "status": "true"
}
```

POST    Get Random Stop

http://localhost/finalProject471/website/getRandomStop.php

Gets a random location that the route 'Route\_no' stops at and returns it. Outputs status of the request to 'status'. 'true' means that it exists, otherwise it will give you the appropriate error message. Other outputs: 'Address' is the location returned.

BODY formdata

**Route\_no**

2

The route number

Example Request

Get Random Stop

```
curl --location --request POST 'http://localhost/finalProject471/website/getRandomStop.php' \
--form 'Route_no=2'
```

Example Response

200 OK

Body Headers (7)

```
{
  "Address": "45 Kiwi Avenue",
  "status": "true"
}
```

POST Verify IDs

http://localhost/finalProject471/website/verifyIDs.php

does stuff

BODY formdata

**row[Route\_no\_1]**

1

Route number 1

**row[Date\_1]**

2020/12/08

Date 1 (format yyyy/mm/dd)

**row[Start\_time\_1]**

08:00:00

Start time 1 (format hh:mm:ss)

**row[Row\_1]**

1

Row of seat 1

**row[Column\_1]**

1

Column of seat 1

**row[Route\_no\_2]**

1

Route number 2

**row[Date\_2]**

2020/12/08

Date 2 (format yyyy/mm/dd)

**row[Start\_time\_2]**

08:00:00

Start time 2 (format hh:mm:ss)

**row[Row\_2]**

1

Row of seat 2

**row[Column\_2]**

2

Column of seat 2

**ID**

1

Employee ID of contagious individual



## Example Request

Verify IDs

```
curl --location --request POST 'http://localhost/finalProject471/website/verifyIDs.php' \
--form 'row[Route_no_1]=1' \
--form 'row[Date_1]=2020/12/08' \
--form 'row[Start_time_1]=08:00:00' \
--form 'row[Row_1]=1' \
--form 'row[Column_1]=1' \
--form 'row[Route_no_2]=1' \
--form 'row[Date_2]=2020/12/08' \
--form 'row[Start_time_2]=08:00:00' \
--form 'row[Row_2]=1' \
```

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## Example Response

200 OK

Body Headers (7)

```
{
  "Tuples": [
    {
      "Employee_id": 13
    }
  ],
  "TupleCount": 1,
  "status": "true"
}
```

## POST Verify Emp

things

BODY formdata

## FirstName

Adam

first name

## LastName

Chan

Last name

Documentation Settings ▼

Example Request

Verify Emp

```
curl --location --request POST 'http://localhost/finalProject471/website/verifyEmp.php' \
--form 'FirstName=Adam' \
--form 'LastName=Chan'
```

Example Response

200 OK

Body   Headers (7)

```
{
  "Tuples": [
    {
      "Employee_id": 1,
      "First_name": "Adam",
      "Last_name": "Chan",
      "Department": "Marketing",
      "Admin_id": 1
    }
  ]
}
```

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POST Get Prox Pass

http://localhost/finalProject471/website/getProxPass.php

gets employee information for specified IDs

BODY formdata

IDs[0]

13  
Emp ID

IDs[1]

15

Emp ID



Documentation Settings ▼

**count**

0

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## Example Request

Get Prox Pass

```
curl --location --request POST 'http://localhost/finalProject471/website/getProxPass.php' \
--form 'IDs[0]=13' \
--form 'IDs[1]=15' \
--form 'count=0'
```

## Example Response

200 OK

Body Headers (7)

```
{
  "Tuples": [
    {
      "Employee_id": 13,
      "First_name": "Sienna",
      "Last_name": "Cassidy",
      "Department": "Engineering",
      "Admin_id": 2
    }
  ]
}
```

[View More](#)

## POST Get Prox

```
http://localhost/finalProject471/website/getProx.php
```

gets all proximity instances. Note that this accepts an array for the parameter 'allInstances', with the parameters route number, date, start time, seat row, and seat column.

### PARAMS

### BODY formdata

**allInstances[0][Route\_no]**



Route number

**allInstances[0][Date]**

2020/12/08

Date (format yyyy/mm/dd)

**allInstances[0][Start\_time]**

08:00:00

Time (format hh:mm:ss)

**allInstances[0][Seat\_row]**

1

The seat row

**allInstances[0][Seat\_col]**

1

The seat column

**count**

0

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Example Request

Get Prox

```
curl --location --request POST 'http://localhost/finalProject471/website/getProx.php' \
--form 'allInstances[0][Route_no]=1' \
--form 'allInstances[0][Date]=2020/12/08' \
--form 'allInstances[0][Start_time]=08:00:00' \
--form 'allInstances[0][Seat_row]=1' \
--form 'allInstances[0][Seat_col]=1' \
--form 'count=0'
```

Example Response

200 OK

Body    Headers (7)



```
{
  "Tuples": [
    {
      "Route_no_1": 1,
      "Date_1": "2020/12/08",
      "Start_time_1": "08:00:00",
      "Row_1": 1,
      "Column_1": 1,
      "Route_no_2": 1,
      "Date_2": "2020/12/08".
    }
  ]
}
```

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POST Verify Emp Seats

```
http://localhost/finalProject471/website/verifyEmpSeats.php
```

finds seats employee was in

BODY formdata

EmployeeID

1  
employee id

Example Request

Verify Emp Seats

```
curl --location --request POST 'http://localhost/finalProject471/website/verifyEmpSeats.php' \
--form 'EmployeeID=1'
```

Example Response

200 OK

Body   Headers (7)

```
== {
  "Tuples": [
    {
      "Route_no": 1,
      "Date": "2020/12/08",
      "Start_time": "08:00:00",
      "Seat_row": 1,
      "Seat_col": 1,
      "Employee_id": 1
    }
  ]
}
```

Documentation Settings ▼

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Cut off responses:

Get Seats on Route Instance:

```
{
  "Route_no": "1",
  "Date": "2020/12/08",
  "Start_time": "08:00:00",
  "Tuples": [
    {
      "Row": 1,
      "Column": 1
    },
    {
      "Row": 1,
      "Column": 2
    },
    {
      "Row": 1,
      "Column": 3
    },
    {
      "Row": 1,
      "Column": 4
    },
    {
      "Row": 2,
      "Column": 1
    },
    {
      "Row": 2,
      "Column": 2
    },
    {
      "Row": 2,
      "Column": 3
    },
    {
      "Row": 2,
      "Column": 4
    },
    {
      "Row": 3,
      "Column": 1
    },
    {
      "Row": 3,
      "Column": 2
    },
    {
      "Row": 3,
      "Column": 3
    },
    {
      "Row": 3,
      "Column": 4
    },
    {
      "Row": 4,
      "Column": 1
    },
    {
      "Row": 4,
      "Column": 2
    },
    {
      "Row": 4,
      "Column": 3
    },
    {
      "Row": 4,
      "Column": 4
    },
    {
      "Row": 5,
      "Column": 1
    },
    {
      "Row": 5,
      "Column": 2
    },
    {
      "Row": 5,
      "Column": 3
    },
    {
      "Row": 5,
      "Column": 4
    },
    {
      "Row": 6,
      "Column": 1
    },
    {
      "Row": 6,
      "Column": 2
    },
    {
      "Row": 6,
      "Column": 3
    },
    {
      "Row": 6,
      "Column": 4
    }
  ],
  "TupleCount": 24,
  "status": "true"
}
```

### Get Passenger Seats on Route Instance:

```
{
  "Route_no": "1",
  "Date": "2020/12/08",
  "Start_time": "08:00:00",
  "Tuples": [
    {
      "Seat_row": 1,
      "Seat_col": 1,
      "Employee_id": 1
    },
    {
      "Seat_row": 1,
      "Seat_col": 2,
      "Employee_id": 13
    },
    {
      "Seat_row": 1,
      "Seat_col": 3,
      "Employee_id": 2
    },
    {
      "Seat_row": 1,
      "Seat_col": 4,
      "Employee_id": 14
    },
    {
      "Seat_row": 2,
      "Seat_col": 1,
      "Employee_id": 3
    },
    {
      "Seat_row": 2,
      "Seat_col": 2,
      "Employee_id": 15
    },
    {
      "Seat_row": 2,
      "Seat_col": 3,
      "Employee_id": 4
    },
    {
      "Seat_row": 2,
      "Seat_col": 4,
```

```
      "Employee_id": 16
    },
    {
      "Seat_row": 3,
      "Seat_col": 1,
      "Employee_id": 5
    },
    {
      "Seat_row": 3,
      "Seat_col": 2,
      "Employee_id": 17
    },
    {
      "Seat_row": 3,
      "Seat_col": 3,
      "Employee_id": 6
    },
    {
      "Seat_row": 3,
      "Seat_col": 4,
      "Employee_id": 18
    },
    {
      "Seat_row": 4,
      "Seat_col": 1,
      "Employee_id": 7
    },
    {
      "Seat_row": 4,
      "Seat_col": 3,
      "Employee_id": 8
    },
    {
      "Seat_row": 5,
      "Seat_col": 1,
      "Employee_id": 9
    },
    {
      "Seat_row": 5,
      "Seat_col": 3,
      "Employee_id": 10
    },
    {
```

```
      "Seat_row": 6,
      "Seat_col": 1,
      "Employee_id": 11
    },
    {
      "Seat_row": 6,
      "Seat_col": 3,
      "Employee_id": 12
    }
  ],
  "TupleCount": 18,
  "status": "true"
}
```

### Verify Emp:

```
{
  "Tuples": [
    {
      "Employee_id": 1,
      "First_name": "Adam",
      "Last_name": "Chan",
      "Department": "Marketing",
      "Admin_id": 1
    }
  ],
  "TupleCount": 1,
  "status": "true"
}
```

### Get Prox Pass:

```
{
  "Tuples": [
    {
      "Employee_id": 13,
      "First_name": "Sienna",
      "Last_name": "Cassidy",
      "Department": "Engineering",
      "Admin_id": 2
    }
  ],
  "TupleCount": 1,
  "status": "true"
}
```

Get Prox:

```
{
  "Tuples": [
    {
      "Route_no_1": 1,
      "Date_1": "2020/12/08",
      "Start_time_1": "08:00:00",
      "Row_1": 1,
      "Column_1": 1,
      "Route_no_2": 1,
      "Date_2": "2020/12/08",
      "Start_time_2": "08:00:00",
      "Row_2": 1,
      "Column_2": 2
    },
    {
      "Route_no_1": 1,
      "Date_1": "2020/12/08",
      "Start_time_1": "08:00:00",
      "Row_1": 1,
      "Column_1": 1,
      "Route_no_2": 1,
      "Date_2": "2020/12/08",
      "Start_time_2": "08:00:00",
      "Row_2": 2,
      "Column_2": 1
    },
    {
      "Route_no_1": 1,
      "Date_1": "2020/12/08",
      "Start_time_1": "08:00:00",
      "Row_1": 1,
      "Column_1": 1,
      "Route_no_2": 1,
      "Date_2": "2020/12/08",
      "Start_time_2": "08:00:00",
      "Row_2": 2,
      "Column_2": 2
    }
  ],
  "TupleCount": 3,
  "status": "true"
}
```

## Verify Emp Seats:

```
{
  "Tuples": [
    {
      "Route_no": 1,
      "Date": "2020/12/08",
      "Start_time": "08:00:00",
      "Seat_row": 1,
      "Seat_col": 1,
      "Employee_id": 1
    },
    {
      "Route_no": 1,
      "Date": "2020/12/09",
      "Start_time": "08:00:00",
      "Seat_row": 3,
      "Seat_col": 1,
      "Employee_id": 1
    }
  ],
  "TupleCount": 2,
  "status": "true"
}
```