Restaurant Reservation System

1. You have to be signed in either as a customer or a manager to access the application.
2. Your credentials must be present in LDAP for you to sign in.
3. User id is your UNB Id.
4. You can sign up as a customer only. Only a manager has privileges to add another manager.
5. User type can't be updated by customers or managers. Manager has to delete the existing user record and add a new one.
6. Customers can update their own user details.
7. Customers can add, update, and delete their own reservations.
8. Managers can add, update, and delete users.
9. Managers can add, update, and delete all customers' reservations.
10. Date format is YYYY-MM-DD
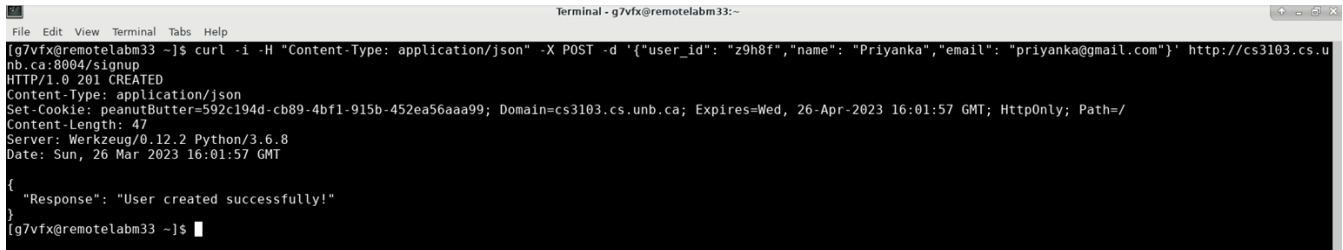11. Timeslots - 0 or 1
12. Table ids - 1 to 8

Note: Customers and Managers have different functionality and unique endpoints.
Customers can't use Manager's functionality and vice versa. These cases have been tested but not documented.

USER

1. SignUp -

curl -i -H "Content-Type: application/json" -X POST -d '{"user_id": "<your_id>","name": "<your_name>","email": "<your_email>"}' https://cs3103.cs.unb.ca:8004/signup
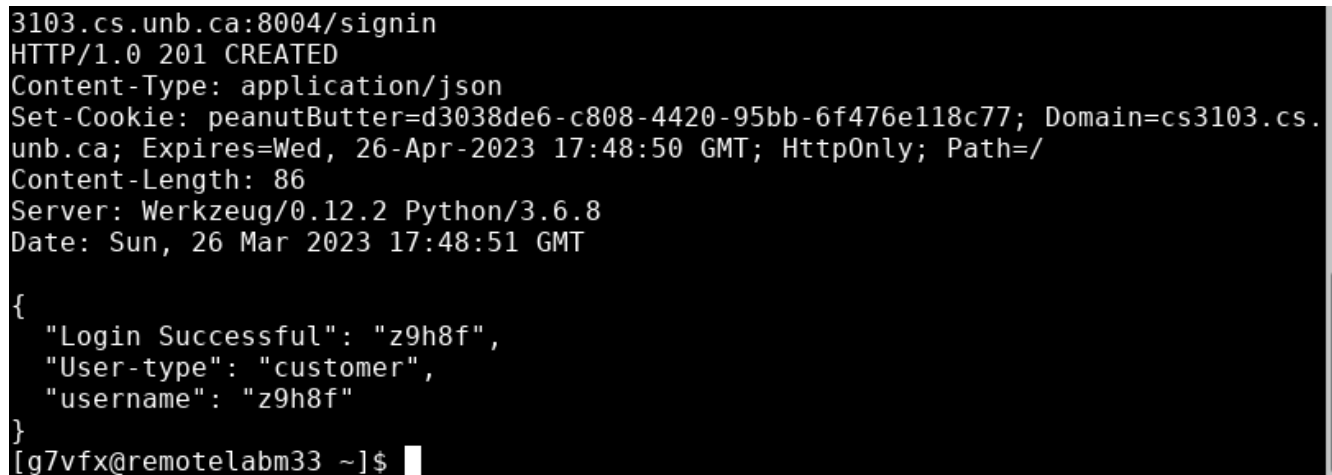
```
[g7vfx@remotelabm33 ~]$ curl -i -H "Content-Type: application/json" -X POST -d '{"user_id": "z9h8f","name": "Priyanka","email": "priyanka@gmail.com"}' http://cs3103.cs.u
nb.ca:8004/signup
HTTP/1.0 201 CREATED
Content-Type: application/json
Set-Cookie: peanutButter=592c194d-cb89-4bf1-915b-452ea56aaa99; Domain=cs3103.cs.unb.ca; Expires=Wed, 26-Apr-2023 16:01:57 GMT; HttpOnly; Path=/
Content-Length: 47
Server: Werkzeug/0.12.2 Python/3.6.8
Date: Sun, 26 Mar 2023 16:01:57 GMT

{
  "Response": "User created successfully!"
}
[g7vfx@remotelabm33 ~]$
```

2. SignIn -

curl -i -H "Content-Type: application/json" -X POST -d '{"username": "<your_id>", "password": "<your_pass>"}' -c cookie-jar -k https://cs3103.cs.unb.ca:8004/signin

```
3103.cs.unb.ca:8004/signin
HTTP/1.0 201 CREATED
Content-Type: application/json
Set-Cookie: peanutButter=d3038de6-c808-4420-95bb-6f476e118c77; Domain=cs3103.cs.
unb.ca; Expires=Wed, 26-Apr-2023 17:48:50 GMT; HttpOnly; Path=/
Content-Length: 86
Server: Werkzeug/0.12.2 Python/3.6.8
Date: Sun, 26 Mar 2023 17:48:51 GMT

{
  "Login Successful": "z9h8f",
  "User-type": "customer",
  "username": "z9h8f"
}
[g7vfx@remotelabm33 ~]$
```

3. Create Reservation

```
curl -i -H "Content-Type: application/json" -X POST -d '{"timeslot": "0","reservation_date": "2023-03-26","table_id": "4"}' -b cookie-jar -k https://cs3103.cs.unb.ca:8004/user/reservations
```

```
[g7vfx@remotelabm33 ~]$ curl -i -H "Content-Type: application/json" -X POST -d '
{"timeslot": "0","reservation_date": "2023-03-26","table_id": "4"}' -b cookie-ja
r -k https://cs3103.cs.unb.ca:8004/user/reservations
HTTP/1.0 201 CREATED
Content-Type: application/json
Set-Cookie: peanutButter=1d9faa74-08b4-46b9-86e0-581cadac701b; Domain=cs3103.cs.
unb.ca; Expires=Wed, 26-Apr-2023 18:04:15 GMT; HttpOnly; Path=/
Content-Length: 65
Server: Werkzeug/0.12.2 Python/3.6.8
Date: Sun, 26 Mar 2023 18:04:15 GMT

{
  "uri": "https://cs3103.cs.unb.ca:8004/user/reservations/8"
}
[g7vfx@remotelabm33 ~]$
```

4. Update Reservation

```
curl -i -H "Content-Type: application/json" -X PUT -d '{"timeslot": "0","reservation_date": "2023-03-27", "reservation_id" : "<your_reservation_id>"}' -b cookie-jar -k https://cs3103.cs.unb.ca:8004/user/reservations
```

```
[g7vfx@remotelabm33 ~]$ curl -i -H "Content-Type: application/json" -X PUT -d '{
"timeslot": "0","reservation_date": "2023-03-30","reservation_id":'8'}' -b cooki
e-jar -k https://cs3103.cs.unb.ca:8004/user/reservations
HTTP/1.0 200 OK
Content-Type: application/json
Set-Cookie: peanutButter=1d9faa74-08b4-46b9-86e0-581cadac701b; Domain=cs3103.cs.
unb.ca; Expires=Wed, 26-Apr-2023 18:06:30 GMT; HttpOnly; Path=/
Content-Length: 27
Server: Werkzeug/0.12.2 Python/3.6.8
Date: Sun, 26 Mar 2023 18:06:30 GMT

{
  "Response_code": 200
}
[g7vfx@remotelabm33 ~]$
```

5. Cancel Reservation

curl -i -H "Content-Type: application/json" -X DELETE -b cookie-jar -k
https://cs3103.cs.unb.ca:8004/user/<userid>/reservations/<reservationid>

If user tries to delete reservation which is not theirs ,it should not allow such requests

```
[g7vfx@remotelabm33 ~]$ curl -i -H "Content-Type: application/json" -X DELETE -b
 cookie-jar -k http://cs3103.cs.unb.ca:8004/user/z9h8/reservations/7
HTTP/1.0 403 FORBIDDEN
Content-Type: application/json
Content-Length: 53
Set-Cookie: peanutButter=94747b1a-9614-4ef6-9aa0-bf8128d4176b; Domain=cs3103.cs.
unb.ca; Expires=Wed, 26-Apr-2023 17:32:10 GMT; HttpOnly; Path=/
Server: Werkzeug/0.12.2 Python/3.6.8
Date: Sun, 26 Mar 2023 17:32:10 GMT

{
    "message": "Please use valid reservation id"
}
[g7vfx@remotelabm33 ~]$ 
```

6. Get Reservation

curl -i -H "Content-Type: application/json" -X GET -b cookie-jar -k
https://cs3103.cs.unb.ca:8004/user/reservations

```
[g7vfx@remotelabm33 ~]$ curl -i -H "Content-Type: application/json" -X GET -b cookie-ja
r -k https://cs3103.cs.unb.ca:8004/user/reservations
HTTP/1.0 200 OK
Content-Type: application/json
Set-Cookie: peanutButter=1d9faa74-08b4-46b9-86e0-581cadac701b; Domain=cs3103.cs.unb.ca;
 Expires=Wed, 26-Apr-2023 18:09:59 GMT; HttpOnly; Path=/
Content-Length: 372
Server: Werkzeug/0.12.2 Python/3.6.8
Date: Sun, 26 Mar 2023 18:09:59 GMT

{
  "reservations": [
    {
      "reservation_date": "Mon, 27 Mar 2023 00:00:00 GMT",
      "reservation_id": 7,
      "table_id": 4,
      "timeslot": "0",
      "user_id": "z9h8f"
    },
    {
      "reservation_date": "Thu, 30 Mar 2023 00:00:00 GMT",
      "reservation_id": 8,
      "table_id": 4,
      "timeslot": "0",
      "user_id": "z9h8f"
    }
  ]
}
[g7vfx@remotelabm33 ~]$
```

7. SignOut

curl -i -H "Content-Type: application/json" -X DELETE -b cookie-jar -k
https://cs3103.cs.unb.ca:8004/signout

User cannot logout twice

```
[g7vfx@remotelabm33 ~]$ curl -i -H "Content-Type: application/json" -X DELETE -b cookie
-jar -k https://cs3103.cs.unb.ca:8004/signout
HTTP/1.0 200 OK
Content-Type: application/json
Set-Cookie: peanutButter=1d9faa74-08b4-46b9-86e0-581cadac701b; Domain=cs3103.cs.unb.ca;
 Expires=Wed, 26-Apr-2023 18:15:16 GMT; HttpOnly; Path=/
Content-Length: 42
Server: Werkzeug/0.12.2 Python/3.6.8
Date: Sun, 26 Mar 2023 18:15:16 GMT

{
  "status": "Logged out successfully"
}
[g7vfx@remotelabm33 ~]$ curl -i -H "Content-Type: application/json" -X DELETE -b cookie
-jar -k https://cs3103.cs.unb.ca:8004/signout
HTTP/1.0 403 FORBIDDEN
Content-Type: application/json
Set-Cookie: peanutButter=1d9faa74-08b4-46b9-86e0-581cadac701b; Domain=cs3103.cs.unb.ca;
 Expires=Wed, 26-Apr-2023 18:15:34 GMT; HttpOnly; Path=/
Content-Length: 38
Server: Werkzeug/0.12.2 Python/3.6.8
Date: Sun, 26 Mar 2023 18:15:34 GMT

{
  "status": "User not logged in!"
}
[g7vfx@remotelabm33 ~]$
```

7. Update User

curl -i -H "Content-Type: application/json" -X PUT -d '{"name": "Priyanka","email": "Priyanka@gmail.com"}' -b cookie-jar -k https://cs3103.cs.unb.ca:8004/user

User can update only its own details.

```
[g7vfx@remotelabm33 ~]$ curl -i -H "Content-Type: application/json" -X PUT -d '{"name":
 "Priyanka","email": "Priyanka@gmail.com"}' -b cookie-jar -k https://cs3103.cs.unb.ca:8
004/user
HTTP/1.0 200 OK
Content-Type: application/json
Set-Cookie: peanutButter=1d9faa74-08b4-46b9-86e0-581cadac701b; Domain=cs3103.cs.unb.ca;
 Expires=Wed, 26-Apr-2023 18:12:22 GMT; HttpOnly; Path=/
Content-Length: 30
Server: Werkzeug/0.12.2 Python/3.6.8
Date: Sun, 26 Mar 2023 18:12:22 GMT

{
  "response_code ": "200"
}
[g7vfx@remotelabm33 ~]$
```

MANAGER

8. Login

curl -i -H "Content-Type: application/json" -X POST -d '{"username": "<your_id>", "password": "<your_pass>"}' -c cookie-jar -k https://cs3103.cs.unb.ca:8004/signin

If User is a manager it will login as manager as default

```
unb.ca:8004/signin
HTTP/1.0 201 CREATED
Content-Type: application/json
Set-Cookie: peanutButter=326c0123-14d2-4840-80a6-1d32a833f357; Domain=cs3103.cs.unb.ca;
 Expires=Wed, 26-Apr-2023 18:20:01 GMT; HttpOnly; Path=/
Content-Length: 85
Server: Werkzeug/0.12.2 Python/3.6.8
Date: Sun, 26 Mar 2023 18:20:01 GMT

{
  "Login Successful": "g7vfx",
  "User-type": "manager",
  "username": "g7vfx"
}
[g7vfx@remotelabm33 ~]$
```

9. Get All Users

```
curl -i -H "Content-Type: application/json" -X GET -b cookie-jar -k
https://cs3103.cs.unb.ca:8004/manager/users
```

```
[g7vfx@remotelabm33 ~]$ curl -i -H "Content-Type: application/json" -X GET -b cookie-ja
r -k https://cs3103.cs.unb.ca:8004/manager/users
HTTP/1.0 200 OK
Content-Type: application/json
Set-Cookie: peanutButter=326c0123-14d2-4840-80a6-1d32a833f357; Domain=cs3103.cs.unb.ca;
 Expires=Wed, 26-Apr-2023 18:28:02 GMT; HttpOnly; Path=/
Content-Length: 282
Server: Werkzeug/0.12.2 Python/3.6.8
Date: Sun, 26 Mar 2023 18:28:02 GMT

{
  "users": [
    {
      "email": "g7vfx@unb.ca",
      "name": "Nikhil",
      "user_id": "g7vfx",
      "user_type": "manager"
    },
    {
      "email": "Priyanka@gmail.com",
      "name": "Priyanka",
      "user_id": "z9h8f",
      "user_type": "customer"
    }
  ]
}
[g7vfx@remotelabm33 ~]$
```

10. Add User

curl -i -H "Content-Type: application/json" -X POST -d '{"user_id": "rick","name": "rick","email": "rick@unb.ca","user_type": "customer"}' -b cookie-jar -k https://cs3103.cs.unb.ca:8004/manager/users

```
[g7vfx@remotelabm33 ~]$ curl -i -H "Content-Type: application/json" -X POST -d '{"user_
id": "rick","name": "rick","email": "rick@unb.ca","user_type": "customer"}' -b cookie-j
ar -k https://cs3103.cs.unb.ca:8004/manager/users
HTTP/1.0 201 CREATED
Content-Type: application/json
Set-Cookie: peanutButter=326c0123-14d2-4840-80a6-1d32a833f357; Domain=cs3103.cs.unb.ca;
 Expires=Wed, 26-Apr-2023 18:41:07 GMT; HttpOnly; Path=/
Content-Length: 47
Server: Werkzeug/0.12.2 Python/3.6.8
Date: Sun, 26 Mar 2023 18:41:07 GMT

{
  "Response": "User created successfully!"
}
[g7vfx@remotelabm33 ~]$
```

11. Update User

curl -i -H "Content-Type: application/json" -X PUT -d '{"user_id": "z9h8f","name": "Priyanka","email": "Priyanka@gmail.com"}' -b cookie-jar -k https://cs3103.cs.unb.ca:8004/manager/users

```
[g7vfx@remotelabm33 ~]$ curl -i -H "Content-Type: application/json" -X PUT -d '{"user_i
d": "z9h8f","name": "Priyanka","email": "Priyanka@gmail.com"}' -b cookie-jar -k https:/
/cs3103.cs.unb.ca:8004/manager/users
HTTP/1.0 200 OK
Content-Type: application/json
Set-Cookie: peanutButter=326c0123-14d2-4840-80a6-1d32a833f357; Domain=cs3103.cs.unb.ca;
 Expires=Wed, 26-Apr-2023 19:06:27 GMT; HttpOnly; Path=/
Content-Length: 30
Server: Werkzeug/0.12.2 Python/3.6.8
Date: Sun, 26 Mar 2023 19:06:27 GMT

{
  "response_code ": "200"
}
[g7vfx@remotelabm33 ~]$
```

12. Get User Details

curl -i -H "Content-Type: application/json" -X GET -b cookie-jar -k
https://cs3103.cs.unb.ca:8004/manager/users/z9h8f

```
[g7vfx@remotelabm33 ~]$ curl -i -H "Content-Type: application/json" -X GET -b cookie-ja
r -k https://cs3103.cs.unb.ca:8004/manager/users/z9h8f
HTTP/1.0 200 OK
Content-Type: application/json
Set-Cookie: peanutButter=326c0123-14d2-4840-80a6-1d32a833f357; Domain=cs3103.cs.unb.ca;
 Expires=Wed, 26-Apr-2023 19:11:21 GMT; HttpOnly; Path=/
Content-Length: 134
Server: Werkzeug/0.12.2 Python/3.6.8
Date: Sun, 26 Mar 2023 19:11:21 GMT

{
  "user": {
    "email": "Priyanka@gmail.com",
    "name": "Priyanka",
    "user_id": "z9h8f",
    "user_type": "customer"
  }
}
[g7vfx@remotelabm33 ~]$
```

13. Delete User

curl -i -H "Content-Type: application/json" -X DELETE -b cookie-jar -k
https://cs3103.cs.unb.ca:8004/manager/users/z9h8f

```
[g7vfx@remotelabm33 ~]$ curl -i -H "Content-Type: application/json" -X DELETE -b cookie
-jar -k https://cs3103.cs.unb.ca:8004/manager/users/z9h8f
HTTP/1.0 200 OK
Content-Type: application/json
Content-Length: 4
Set-Cookie: peanutButter=326c0123-14d2-4840-80a6-1d32a833f357; Domain=cs3103.cs.unb.ca;
 Expires=Wed, 26-Apr-2023 19:13:01 GMT; HttpOnly; Path=/
Server: Werkzeug/0.12.2 Python/3.6.8
Date: Sun, 26 Mar 2023 19:13:01 GMT

204
[g7vfx@remotelabm33 ~]$
```

14. Get all Reservation details

curl -i -H "Content-Type: application/json" -X GET -b cookie-jar -k
https://cs3103.cs.unb.ca:8004/manager/reservations

```
[g7vfx@remotelabm33 ~]$ curl -i -H "Content-Type: application/json" -X GET -b cookie-jar -k https://cs31
03.cs.unb.ca:8004/manager/reservations
HTTP/1.0 200 OK
Content-Type: application/json
Set-Cookie: peanutButter=326c0123-14d2-4840-80a6-1d32a833f357; Domain=cs3103.cs.unb.ca; Expires=Wed, 26-
Apr-2023 19:16:32 GMT; HttpOnly; Path=/
Content-Length: 545
Server: Werkzeug/0.12.2 Python/3.6.8
Date: Sun, 26 Mar 2023 19:16:32 GMT

{
  "reservations": [
    {
      "reservation_date": "Wed, 15 Mar 2023 00:00:00 GMT",
      "reservation_id": 1,
      "table_id": 1,
      "timeslot": "0",
      "user_id": "g7vfx"
    },
    {
      "reservation_date": "Thu, 16 Mar 2023 00:00:00 GMT",
      "reservation_id": 2,
      "table_id": 2,
      "timeslot": "1",
      "user_id": "g7vfx"
    },
    {
      "reservation_date": "Fri, 17 Mar 2023 00:00:00 GMT",
      "reservation_id": 3,
      "table_id": 3,
      "timeslot": "0",
      "user_id": "g7vfx"
    }
  ]
}
[g7vfx@remotelabm33 ~]$
```

15. Create Reservation

curl -i -H "Content-Type: application/json" -X POST -d '{"timeslot": "0","reservation_date": "2023-03-26","user_id": "z9h8f","table_id": "4"}' -b cookie-jar -k
https://cs3103.cs.unb.ca:8004/manager/reservations

```
[g7vfx@remotelabm33 ~]$ curl -i -H "Content-Type: application/json" -X POST -d '{"timeslot": "0","reserv
ation_date": "2023-03-26","user_id": "z9h8f","table_id": "4"}' -b cookie-jar -k https://cs3103.cs.unb.ca
:8004/manager/reservations
HTTP/1.0 201 CREATED
Content-Type: application/json
Set-Cookie: peanutButter=326c0123-14d2-4840-80a6-1d32a833f357; Domain=cs3103.cs.unb.ca; Expires=Wed, 26-
Apr-2023 19:34:51 GMT; HttpOnly; Path=/
Content-Length: 54
Server: Werkzeug/0.12.2 Python/3.6.8
Date: Sun, 26 Mar 2023 19:34:51 GMT

{
  "Response": "Reservation created successfully!"
}
[g7vfx@remotelabm33 ~]$
```

16 . Update Reservation

curl -i -H "Content-Type: application/json" -X PUT -d '{"user_id": "z9h8f","timeslot": "0","reservation_date": "2023-03-26", "reservation_id" : "7","table_id" : '2'}' -b cookie-jar -k https://cs3103.cs.unb.ca:8004/manager/reservations

```
[g7vfx@remotelabm33 ~]$ curl -i -H "Content-Type: application/json" -X PUT -d '{"user_id": "z9h8f","time
slot": "0","reservation_date": "2023-03-26", "reservation_id" : "7","table_id" : '2'}' -b cookie-jar -k
https://cs3103.cs.unb.ca:8004/manager/reservations
HTTP/1.0 200 OK
Content-Type: application/json
Set-Cookie: peanutButter=326c0123-14d2-4840-80a6-1d32a833f357; Domain=cs3103.cs.unb.ca; Expires=Wed, 26-
Apr-2023 19:48:55 GMT; HttpOnly; Path=/
Content-Length: 27
Server: Werkzeug/0.12.2 Python/3.6.8
Date: Sun, 26 Mar 2023 19:48:55 GMT

{
  "Response_code": 200
}
[g7vfx@remotelabm33 ~]$
```

17. Get Reservations By UserId

curl -i -H "Content-Type: application/json" -X GET -b cookie-jar -k https://cs3103.cs.unb.ca:8004/manager/reservations/z9h8f

```
[g7vfx@remotelabm33 ~]$ curl -i -H "Content-Type: application/json" -X GET -b cookie-jar -k https://cs31
03.cs.unb.ca:8004/manager/reservations/z9h8f
HTTP/1.0 200 OK
Content-Type: application/json
Set-Cookie: peanutButter=326c0123-14d2-4840-80a6-1d32a833f357; Domain=cs3103.cs.unb.ca; Expires=Wed, 26-
Apr-2023 19:58:18 GMT; HttpOnly; Path=/
Content-Length: 200
Server: Werkzeug/0.12.2 Python/3.6.8
Date: Sun, 26 Mar 2023 19:58:18 GMT

{
  "reservations": [
    {
      "reservation_date": "Sun, 26 Mar 2023 00:00:00 GMT",
      "reservation_id": 11,
      "table_id": 4,
      "timeslot": "0",
      "user_id": "z9h8f"
    }
  ]
}
```

18. Cancel Reservation

curl -i -H "Content-Type: application/json" -X DELETE -b cookie-jar -k
https://cs3103.cs.unb.ca:8004/manager/z9h8f/reservations/11

```
[g7vfx@remotelabm33 ~]$ curl -i -H "Content-Type: application/json" -X DELETE -b cookie-jar -k https://c
s3103.cs.unb.ca:8004/manager/z9h8f/reservations/11
HTTP/1.0 200 OK
Content-Type: application/json
Content-Length: 4
Set-Cookie: peanutButter=326c0123-14d2-4840-80a6-1d32a833f357; Domain=cs3103.cs.unb.ca; Expires=Wed, 26-
Apr-2023 20:01:34 GMT; HttpOnly; Path=/
Server: Werkzeug/0.12.2 Python/3.6.8
Date: Sun, 26 Mar 2023 20:01:34 GMT

204
[g7vfx@remotelabm33 ~]$
```