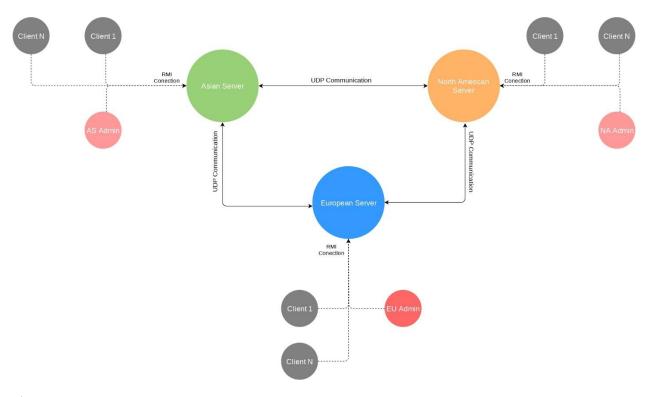
# COMP 6231 - Distributed System Design Assignment 1

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# Distributed System Architecture



### **A RMI Registry Ports**

- 1. AS REGISTRY PORT = 52575
- 2. EU\_REGISTRY\_PORT = 52576
- 3. NA\_REGISTRY\_PORT = 52577

### **UDP Server Ports**

- 1. NA\_PORT = 5001
- 2. EU\_PORT = 5002
- 3. AS\_PORT = 5003

**Note**: Please kill all services which are running on above port and after that run the project.

# ❖ Asian Server's Default Users (182.x.x.x)

Sr. No	Username	password
1	Bruce123	Bruce123
2	Charles123	Charles123
3	Adak123	Adak123
4	Varun123	Varun123
5	Kevin123	Kevin123

# European Server's Default Users (93.x.x.x)

Sr. No	Username	password
1	tapani15	Fabienne123
2	ksammie45	Darcie123
3	aphilipa22	Philipa123
4	Amsel97	Davinia123
5	Key007	Gyles123

# ❖ North American Server's Default Users (132.x.x.x)

Sr. No	username	password
1	Siddall123	Siddall123
2	Morce123	Morce123
3	Seabrook123	Seabrook123
4	Upton123	Upton123
5	Garfield123	Garfield123

### How to run project?

The project was created using Oracle's Java 14.

Unzip project submission. There will be 1 file and 1 folder namely "Readme.pdf" and "Assignment 1" folder. Put "Assignment 1" folder in your Eclipse workspace and open the project in your Eclipse.

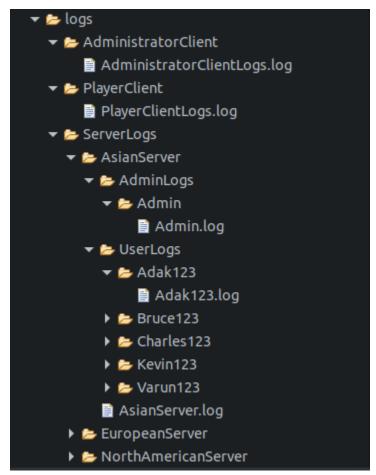
There are 3 packages in the folder namely Client, Server and Logger.



### ❖ src folder

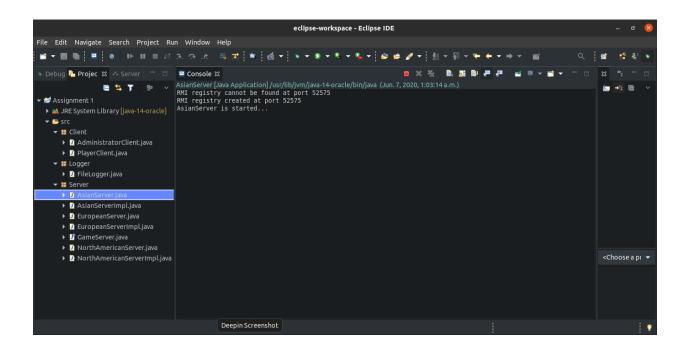
- 1. Client package
  - AdministratorClient.java
  - PlayerClient.java
- 2. Server package
  - GameServer.java (RMI Interface)
  - AsianServer.java (Asian Server)
  - AsianServerImpl.java
  - EuropeanServer.java (European Server)
  - EuropeanServerImpl.java
  - NorthAmericanServer.java (NorthAmerican Server)
  - NorthAmericanServerImpl.java
- 3. Logger package
  - FileLogger.java

### **❖** logs folder

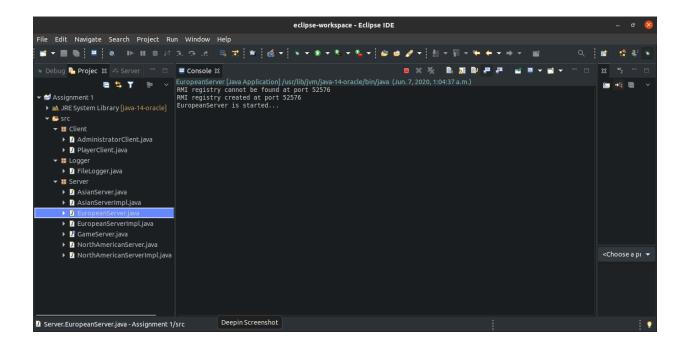


- 1. PlayerClient
  - PlayerClientLogs.log
- 2. AdministratorClient
  - AdministratorClientLogs.log
- 3. ServerLogs
  - NorthAmericanServer
    - 1. NorthAmericanServer.log
    - 2. UserLogs (It has all North American users' log files)
  - EuropeanServer
    - 1. EuropeanServer.log
    - 2. UserLogs (It has all European users' log files)
  - AsianServer
    - 1. AsianServer.log
    - 2. UserLogs (It has all Asian users' log files)

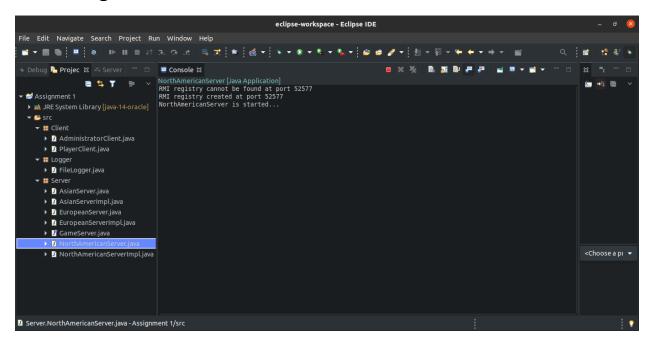
### Staring Asian Server



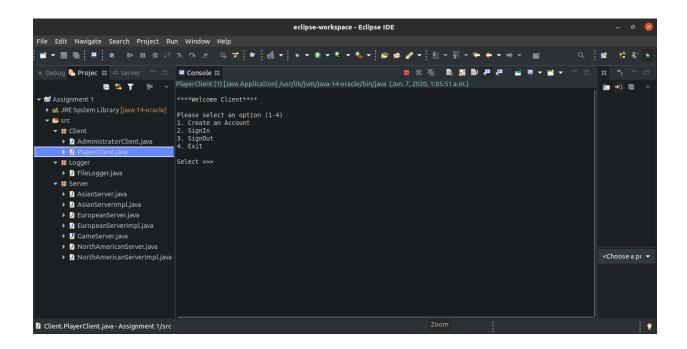
### **Starting European Server**



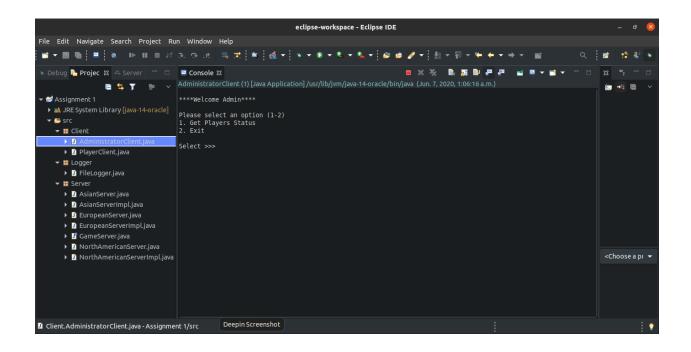
### Starting North American Server



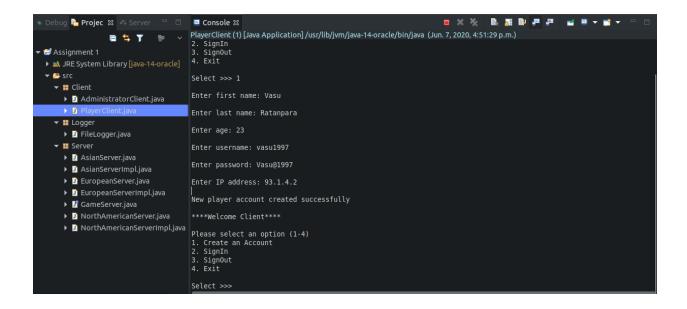
### Starting PlayerClient



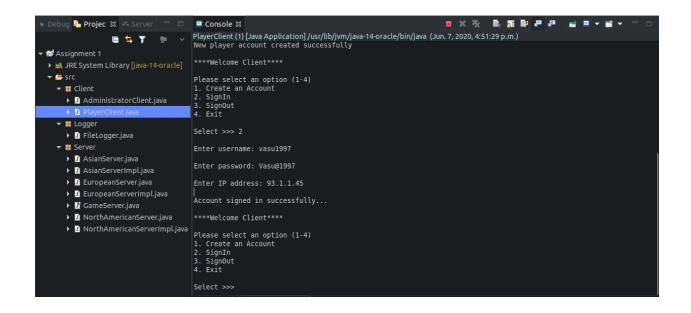
### Staring AdministratorClient



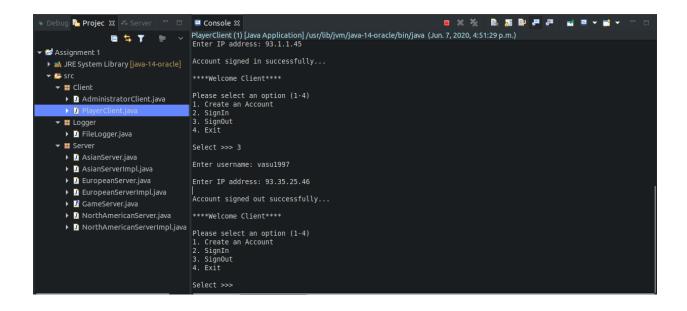
### Creating New User Account



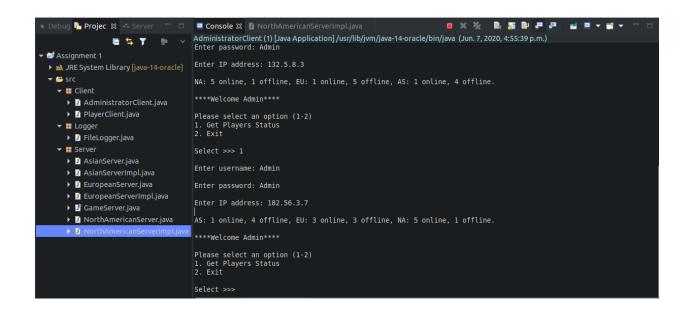
### Signing in User Account



### Signing out User Account



### Get Player Status (by Admin)



### Validations

### > IP Validation

```
****Welcome Admin****

Please select an option (1-2)
1. Get Players Status
2. Exit

Select >>> 1

Enter username: Admin

Enter password: Admin

Enter IP address: 45.2.12.1

1. 132.xxx.xxx.xxx : a North-American geo-location.
2. 93.xxx.xxx.xxx : an European geo-location.
3. 182.xxx.xxx.xxx : an Asian geo-location.

Invalid IP address

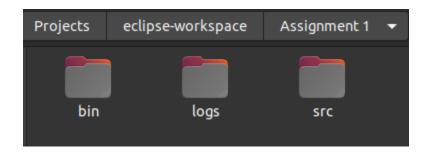
Enter IP address:
```

### ➤ Age, Username and Password validations

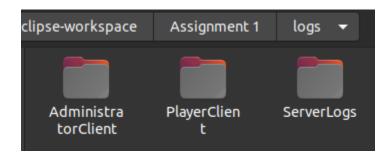
```
****Welcome Client****
Please select an option (1-4)
1. Create an Account
2. SignIn
3. SignOut
4. Exit
Select >>> 1
Enter first name: Vasu
Enter last name: Patel
Enter age: dfds
Please input Integer only
Enter age: 23
Enter username: vasu
A username must have at least 6 characters
Enter username: vasupatel
Enter password: sc
A password must have at least six characters
```

# Logs

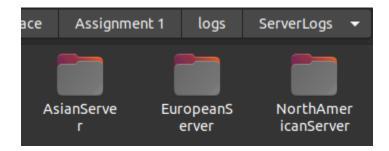
Logs folder will be created in the eclipse project folder Here you can see "logs" folder with "src" and "bin" folder



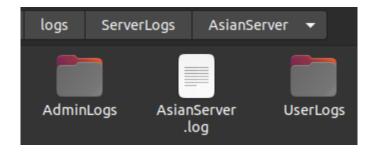
### There are 3 folders inside "logs" folder



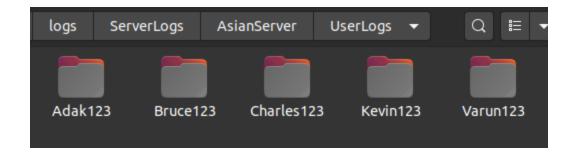
Inside "ServerLogs" folder there is sperate folder for each servers which contains the logs for individual servers and their users.



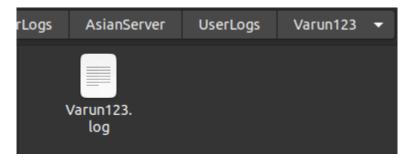
Server's log file will be stored outside and Admin's log are stored in "AdminLogs" folder and users' logs will be stored in "UserLogs" folder



Here, As you can see there are 5 folders for 5 different user (by username) each folder contains individual log files for each user



User log for player with username "Varun123".



### **\*** Exiting Program

```
****Welcome Client****

Please select an option (1-4)

1. Create an Account

2. SignIn

3. SignOut

4. Exit

Select >>> 4

Good Bye.
```

Feel free to contact me if you do not understand anything or you have any questions. My email address is <a href="mailto:vasu.ratanpara@mail.concordia.ca">vasu.ratanpara@mail.concordia.ca</a>

# Thank You