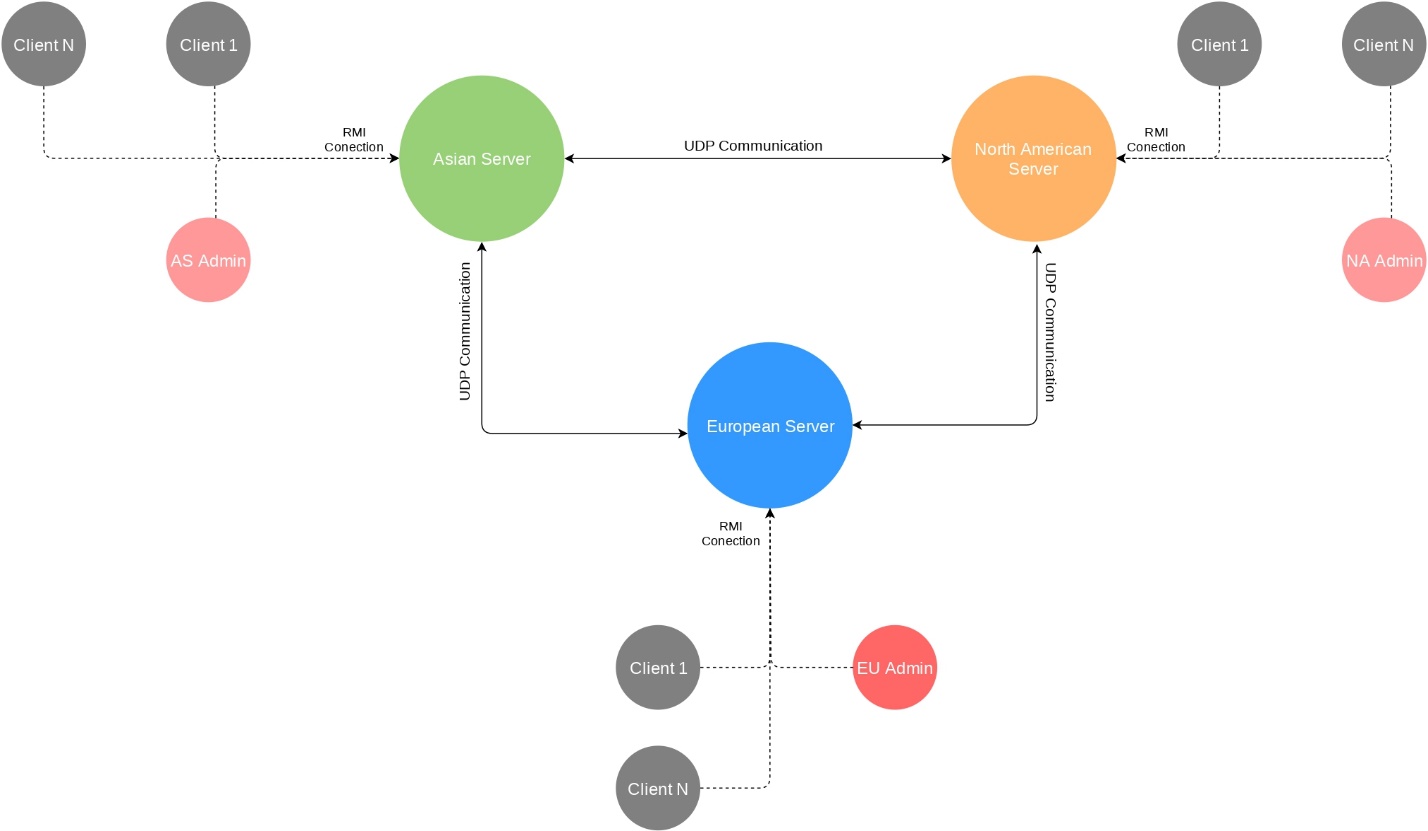
COMP 6231 - Distributed System Design

Assignment 1

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* **Distributed System Architecture**



* **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.

* **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.

A screenshot of a computer screen

Description automatically generated

* **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**

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1. PlayerClient

* PlayerClientLogs.log

1. AdministratorClient
   * AdministratorClientLogs.log
2. ServerLogs

* NorthAmericanServer

1. NorthAmericanServer.log
2. UserLogs (It has all North American users’ log files)
   * EuropeanServer
3. EuropeanServer.log
4. UserLogs (It has all European users’ log files)
   * AsianServer
5. AsianServer.log
6. UserLogs (It has all Asian users’ log files)

* **Staring Asian Server**

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* **Starting European Server**

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* **Starting North American Server**

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* **Starting PlayerClient**

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* **Staring AdministratorClient**

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* **Creating New User Account**

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* **Signing in User Account**

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* **Signing out User Account**

A screenshot of a computer screen

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* **Get Player Status (by Admin)**

A screenshot of a computer

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* **Validations**
  + IP Validation

A close up of a black background

Description automatically generated

* + Age, Username and Password validations

A screenshot of a cell phone

Description automatically generated

* **Logs**

Logs folder will be created in the eclipse project folder

Here you can see “logs” folder with “src” and “bin” folder

A picture containing photo, black, lit, player

Description automatically generated

There are 3 folders inside “logs” folder

A picture containing photo, black, player, meter

Description automatically generated

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

A picture containing photo, racket, player, ball

Description automatically generated

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

A picture containing player, ball

Description automatically generated

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

A picture containing grass, photo, lit, player

Description automatically generated

User log for player with username ”Varun123”.

A screenshot of a cell phone

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* **Exiting Program**

A screen shot of a social media post

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* + Feel free to contact me if you do not understand anything or you have any questions. My email address is [vasu.ratanpara@mail.concordia.ca](mailto:vasu.ratanpara@mail.concordia.ca)

Thank You