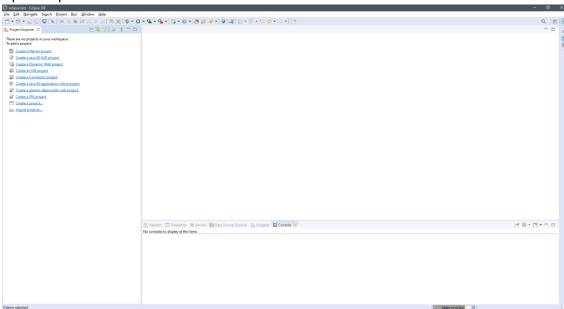
Name: Rajath Muthappa Kallichanda

Student ID: 1001724662

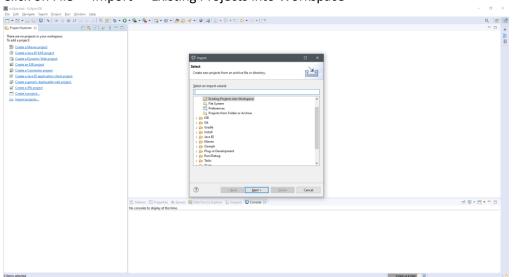
# Steps to Run the Project

Steps to run the project.

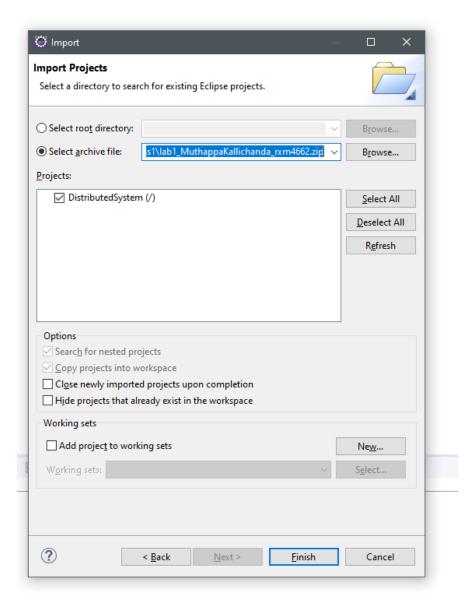
1. Open eclipse



2. Click on File -> Import -> Existing Projects into Workspace



3. Select the archive file radio button and browse enter the path to the zip file

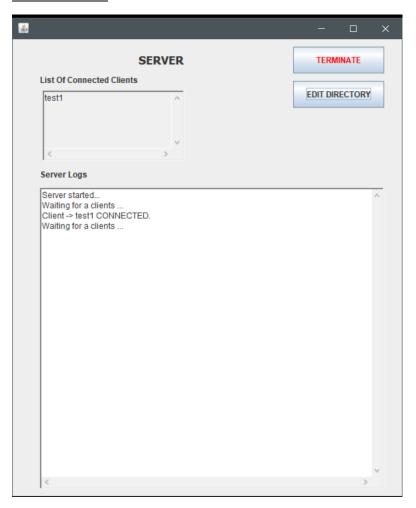


- 4. Click on finish.
- 5. Wait until the project is automatically built or select Project -> Build All
- 6. Open the Server.java file and click on run button or right click and select run as-> Java Application

- 7. Server Window will pop up and the server is up and running
- 8. Open ClientConnection.java and run the file as mentioned above.
- 9. Enter valid client name and click on connect button.
- 10. On validation, a new window would open for user to enter the commands that would be sent to the server for processing.

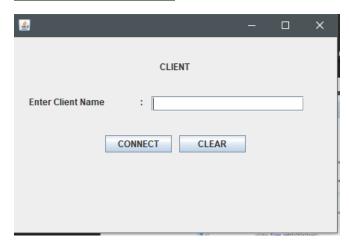
NOTE: Please start the server before trying to establish a client connection.

# **Server Window:**



Click on terminate to terminate the server.

# **Client Connection window:**



Enter the client name and click on connect to establish a connection. Click on clear to clear the text area.

#### Client Window after connection is established:

<b>≜</b>	- 🗆 X
Client: test1	
	Directory View Refresh
Enter the Directory name to be created CREATE DIRECTO	************
	Files from main directory: \\root\test1
Enter the Directory name/path to be deleted DELETE DIRECTORY	
Enter the Directory name to rename	
Enter the new Directory name.	
Enter the Directory name / path to be moved.	
Enter the new Directory path.	
SYNC SERVER DIRECTORY  DE-SYNC SERVER DIRECT	
BROWSE DISCONNECT	< > >
DISCONNECT	

### 1. Create Directory.

Enter the directory name in the text area and click on CREATE\_DIRECTORY. This will send the instructions to the server and on successful validation of the folder name, a new folder would be created, and a response would be sent back to the client. Appropriate message would be displayed to the client if the operation was successful or not.

## 2. <u>Delete Directory.</u>

Enter the directory name in the text area and click on DELETE\_DIRECTORY. This will send the instructions to the server. The server checks if the folder exists or not. If it exists it will delete else it will send appropriate response back to the client.

### 3. Rename Directory.

Enter the Directory whose name has to be change. In the other text box enter the new name. Click on RENAME\_DIRECTORY. This will send the instructions to the server and based on the results, appropriate responses would be sent back to the client.

### 4. Move Directory.

Enter the Directory name to be moved in the first text box, and the new location in the second text area and Click on MOVE\_DIRECTORY. This will send the instruction to the server and appropriate response will be sent back to the client based on the outcome of the operation.

#### 5. Disconnect.

Click on the DISCONNECT button to terminate the session with the server.

### 6. <u>Directory View.</u>

Directory view would list all the directory in the clients Directory. This gets updated dynamically and you may also click on refresh to get the latest folder structure view.

NOTE: if there are any compilation errors due to missing jars, please add the jars manually to the project build path.

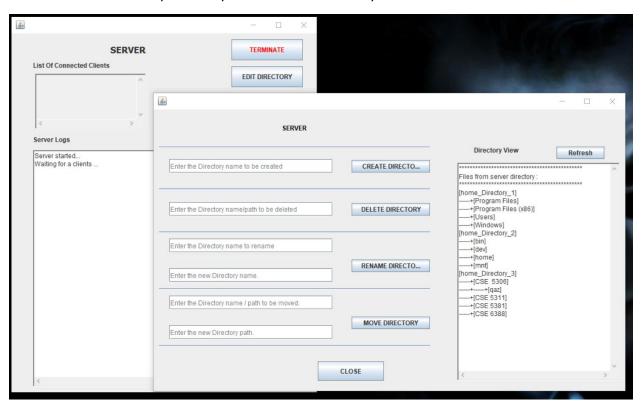
Right click on the project -> build path -> configure build path -> add external jars.

Please navigate to the extracted folder to find, "commons-io-2.8.0.jar" and add it to the class path before running the project

#### PART 2:

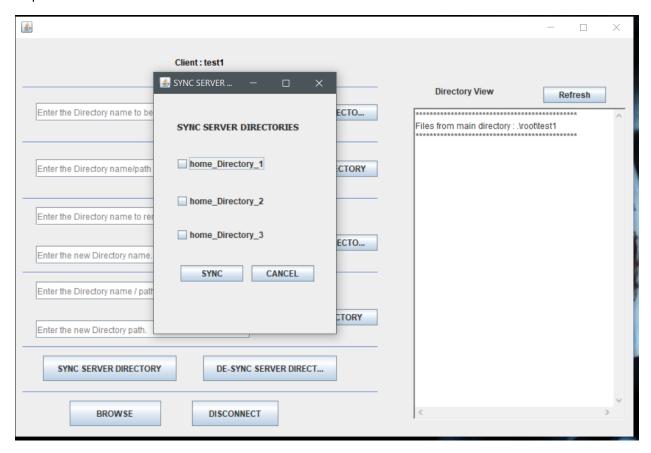
### **Server Window:**

Click on the edit directory to modify the Server side directory.

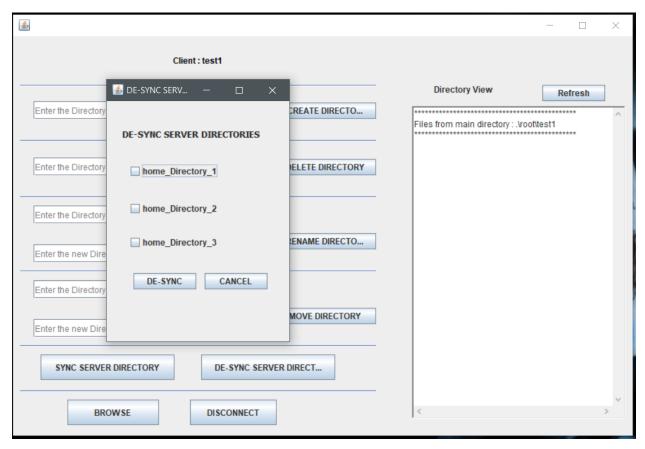


# **Client Window:**

Click on the "SYNC SERVER DIRECTORY" button to access the list of directories available for synchronization. Click on Sync button once the necessary directories are selected. This would create a local directory in clients root folder along with an Identifier that is dynamically assigned to it when a request to SYNC is made.



Click on the "DE-SYNC SERVER DIRECTORY" button to access the list of directories available for desynchronization. Click on De-Sync button once the necessary directories are selected. This would desync/delete the local directory copy in clients root folder.



Any changes made to the to the SERVER directory is automatically synced. CREATE, DELETE, RENAME and MOVE events would be automatically synced along all shared folders in clients local directories. MOVE folder from one root directory to another root directory has a special check. If the client has not made a copy of the new Directory to which the server is moving the file to, then the file is deleted from the current local directory and no copy of it would be available to the client. Synchronization of folders would take place even if the client is offline. If the SERVER changes are not being reflected please click on the refresh button for the directory tree structure to update to the latest changes.

### CITATIONS:

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