

## Implementation a 1-1 Messaging App over TCP/IP

Tevhit Karslı

### Used:

- Ubuntu 16.04
- Java Swing
- Eclipse
- PostgreSQL
- Hibernate

### Execute:

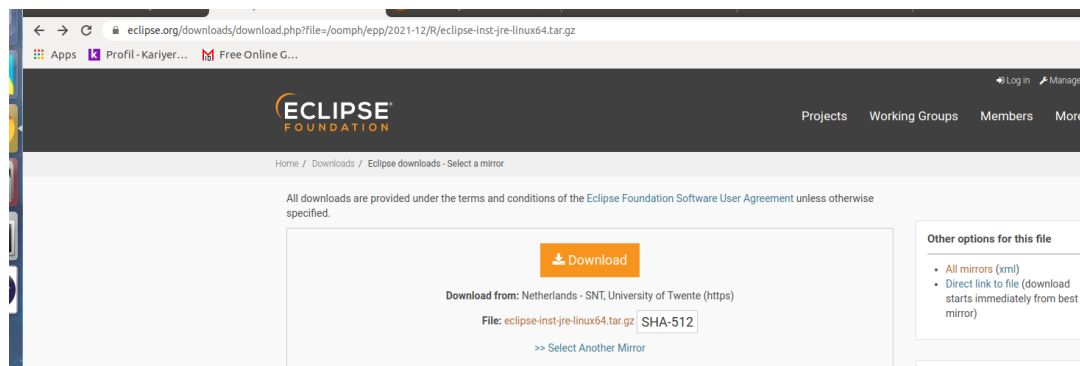
Run "CreateTables" class for creating PostgreSQL table.

Run "Main" class.

Also, implementation is shown in the following link:

[https://youtu.be/CRC\\_R17gkX4](https://youtu.be/CRC_R17gkX4)

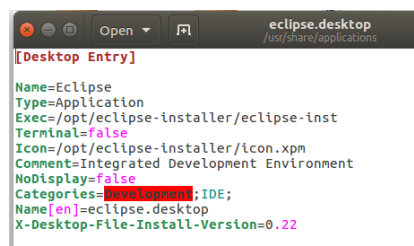
### Eclipse Installation for Ubuntu 16.04:



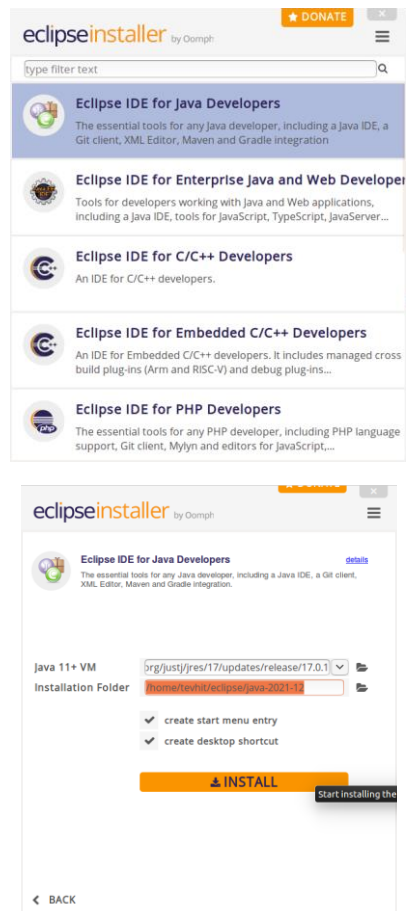
Install Eclipse from shown website above.

Then follow the linux command:

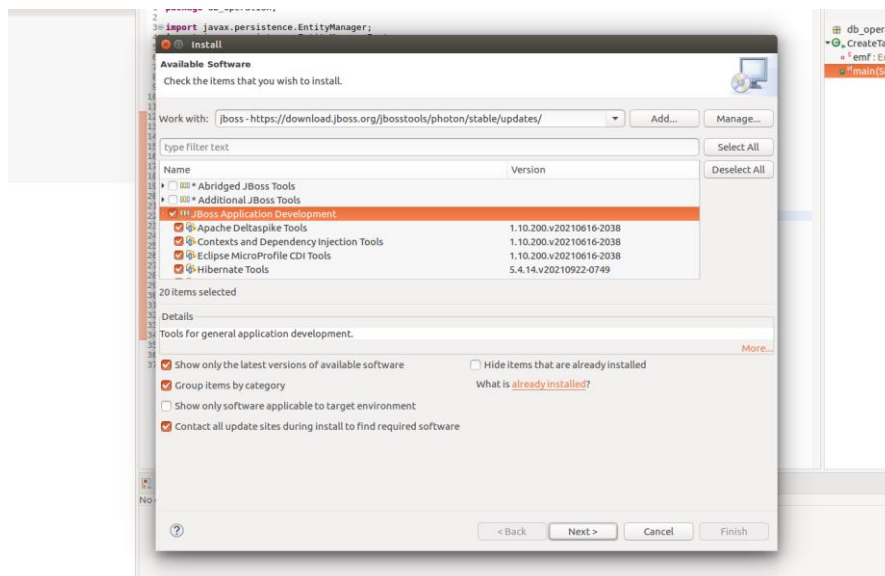
- `tar -xzf eclipse-inst-jre-linux64.tar.gz`
- `sudo mv ~/Downloads/eclipse-installer/ /opt`
- `sudo gedit /usr/share/applications/eclipse.desktop`



- `sudo desktop-file-install /usr/share/applications/eclipse.desktop`
- `sudo ln -s /opt/eclipse/eclipse`



## Hibernate Installation for Eclipse:



Install Hibernate software from shown “work with” above.

## PostgreSQL Installation for Ubuntu 16.04:

Follow the linux command:

- `sudo sh -c 'echo "deb http://apt.postgresql.org/pub/repos/apt $(lsb_release -cs)-pgdg main" > /etc/apt/sources.list.d/pgdg.list'`
- `wget --quiet -O - https://www.postgresql.org/media/keys/ACCC4CF8.asc | sudo apt-key add -`
- `sudo apt-get update`
- `sudo apt-get -y install postgresql`
- `sudo su - postgres`
- `psql`
- `ALTER USER postgres WITH_PASSWORD "123456";`
- `CREATE DATABASE picus;`

So, database of "picus" is created. Also, user of "postgres" is defined with password of "123456".

### Assumption:

User entries in the input fields are not checked. So, user have to enter correct values (correct port number, integer, string etc.).

### Resources:

Eclipse:

<https://www.javatpoint.com/how-to-install-eclipse-in-ubuntu>

Swing:

<https://www.javatpoint.com/java-swing>

Hibernate:

<https://www.baeldung.com/hibernate-criteria-queries>

PostgreSQL

<https://www.postgresql.org/download/linux/ubuntu/>

[https://www.youtube.com/watch?v=-LwI4HMR\\_Eg](https://www.youtube.com/watch?v=-LwI4HMR_Eg)

<https://www.liquidweb.com/kb/creating-and-deleting-a-postgresql-database/>

Client-Server

<https://www.youtube.com/watch?v=gLfuZrrfKes>

