

# Projet POO & Algorithmique

## Réseau Social

Nom du projet: SocialArk  
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# installation des prérequis

installation du JDK :

```
ubuntu@ubuntu:~$ sudo apt-get update
[sudo] password for ubuntu:
Hit:1 http://security.ubuntu.com/ubuntu xenial-security InRelease
Hit:2 http://us.archive.ubuntu.com/ubuntu xenial InRelease
Hit:3 http://us.archive.ubuntu.com/ubuntu xenial-updates InRelease
Hit:4 http://us.archive.ubuntu.com/ubuntu xenial-backports InRelease
Reading package lists... Done
ubuntu@ubuntu:~$ sudo apt-get install openjdk-8-jre
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
```



installation mysql:

```
dalansi@Dalansi-Malek:~/Desktop/SocialArk$ sudo apt install mysql-server
Reading package lists... Done
Building dependency tree
Reading state information... Done
mysql-server is already the newest version (8.0.23-0ubuntu0.20.10.1).
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
dalansi@Dalansi-Malek:~/Desktop/SocialArk$ _
```

Pour les nouvelles installations de MySQL, vous devrez exécuter le script de sécurité inclus dans

ouvrir mysql :

```
dalansi@Dalansi-Malek:~/Desktop/SocialArk$ sudo mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.23-0ubuntu0.20.10.1 (Ubuntu)

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> _
```

ajouter un mot de passe pour mysql (user="root" , pwd="passwd"):

```
dalansi@Dalansi-Malek:~/Desktop/SocialArk$ sudo mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 11, log in with sudo mysql.
Server version: 8.0.23-0ubuntu0.20.10.1 (Ubuntu)

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> ALTER USER 'user-name'@'localhost' IDENTIFIED BY 'NEW_USER_PASSWORD';
ERROR 1396 (HY000): Operation ALTER USER failed for 'user-name'@'localhost'
mysql> ALTER USER 'root'@'localhost' IDENTIFIED BY 'passwd';
Query OK, 0 rows affected (0.23 sec)

mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.04 sec)

mysql> -- SET authentication_string = PASSWORD('NEW_USER_PA
```

Créer une base de donnée nommée SocialArkDB:

```
mysql> CREATE DATABASE SocialArkDB;  
Query OK, 1 row affected (0.48 sec)  
delete a MySQL database - gridscale  
mysql> _
```

Installer mysql jdbc connector :

--installer le fichier .deb depuis ce site : <https://dev.mysql.com/downloads/connector/j/>

--installer: lancer cette commande :

```
sudo dpkg -i mysql-connector-java_8.0.24-1ubuntu2
```

ensuite lancer cette commande :


```
export CLASSPATH=/usr/share/java/mysql-connector-java-8.0.24.jar:$CLASSPATH
```



vérifier si mysql est en cour d'exécution sur la machine locale sur le port 3306:

```
dalansi@Dalansi-Malek:~$ nmap localhost
Starting Nmap 7.91 ( https://nmap.org ) at 2021-04-30 05:09 CET
Nmap scan report for localhost (127.0.0.1)
Host is up (0.000080s latency).
Not shown: 994 closed ports
PORT      STATE SERVICE
22/tcp    open  ssh
139/tcp   open  netbios-ssn
445/tcp   open  microsoft-ds
631/tcp   open  ipp
3306/tcp  open  mysql
5432/tcp  open  postgresql

Nmap done: 1 IP address (1 host up) scanned in 0.10 seconds
dalansi@Dalansi-Malek:~$
```



# Test du projet

```
dalansi@Dalansi-Malek:~/Desktop/SocialArk$ ls
Data.class  Main.class  SocialArk.class  SocialArk_UML.mdj  User.java
Data.java   Main.java   SocialArk.java   User.class
dalansi@Dalansi-Malek:~/Desktop/SocialArk$ javac *.java
dalansi@Dalansi-Malek:~/Desktop/SocialArk$ java Main
```

lors du lancement du projet , le programme crée tout les tables nécessaires si'il n'existent pas , les données sont conservés meme si le programme s'arrete ,  
au niveau du console on a deux choix "login" ou bien "create account"  
on crée une compte et on vérifie s'il existe dans la base de données :

donc on choisit le choix numéro 1



après la création du  
compte on trouve 18  
fonctionnalités q'on  
peut effectuer

```
WAIT [connecting to SocialArk] ...
[1] create an account
[2] login
your choice: 1
username : Malek
password : mypassword

Account Created!

[00] Show Main Options
[1] Create Group
[2] Create Page
[3] List Members Names
[4] Send a Friend Request
[5] List Friend Requests
[6] Accept Some Friend Requests
[7] List Friends
[8] Join a Group
[9] Leave a Group
[10] Like a Page
[11] Poste in a Page
[12] Poste in a Group
[13] Poste in a Wall
[14] Show your posts
[15] Show Page posts
[16] Show Group Posts
[17] View Suggested
```

if ajouter les commentaires du presentateur

```
mysql> use SocialArkDB;  
Database changed  
mysql> show tables;  
Empty set (0.00 sec)
```

```
mysql> show tables;  
+-----+  
| Tables_in_SocialArkDB |  
+-----+  
| FRIENDREQUESTS  
| FRIENDSHIPS  
| GROUPMESSAGES  
| GROUPUSERS  
| MESSAGES  
| PAGEFOLLOWERS  
| PAGEMESSAGES  
| PAGES  
| SOCIALGROUPS  
| USERS  
| WALLS  
+-----+  
11 rows in set (0.01 sec)
```

```
mysql> select * from USERS;  
+-----+-----+-----+  
| userid | username | password |  
+-----+-----+-----+  
|      1 | Malek    | mypassword |  
+-----+-----+-----+  
1 row in set (0.00 sec)  
  
mysql> _
```

on crée un group

```
your choice: 1  # create state
Group Name: IF4  # create group
Genre: education # print
```

et un deuxième groupe

```
your choice: 1  # create state
Group Name: new IF4
Genre: education
```

on poste un message sur le deuxième groupe

```
your choice: 12  # ungroup
Group Name: new IF4
Text: Bonjour
```

on peut afficher les postes du groupe avec le nom d'auteur et la date de création

```
your choice: 16
Group Name: new IF4
Malek: (2021-04-30T07:33:06.803282)
Bonjour
```

on vérifie sur la base de donnée :

```
mysql> select * from MESSAGES;
```

messageid	date	author	content
1	2021-04-30T07:33:06.803282	1	Bonjour

1 row in set (0.00 sec)

```
mysql> select * from SOCIALGROUPS;
```

groupid	groupName	creator	date	genre
1	IF4	1	2021-04-30T07:26:42.675842	education
2	new IF4	1	2021-04-30T07:32:39.44931	education

2 rows in set (0.01 sec)

```
mysql>
```

On peut aussi utiliser tout les options affichés sur l'écran

```
[00] Show Main Options
[1] Create Group
[2] Create Page
[3] List Members Names
[4] Send a Friend Request
[5] List Friend Requests
[6] Accept Some Friend Requests
[7] List Friends
[8] Join a Group
[9] Leave a Group
[10] Like a Page
[11] Poste in a Page
[12] Poste in a Group
[13] Poste in a Wall
[14] Show your posts
[15] Show Page posts
[16] Show Group Posts
[17] View Suggested
```