



UNIVERSITÀ DI PISA

LARGE SCALE AND MULTI-STRUCTURED DATABASES

< SOCIAL WINE APPLICATION USER GUIDE >

Project made by:

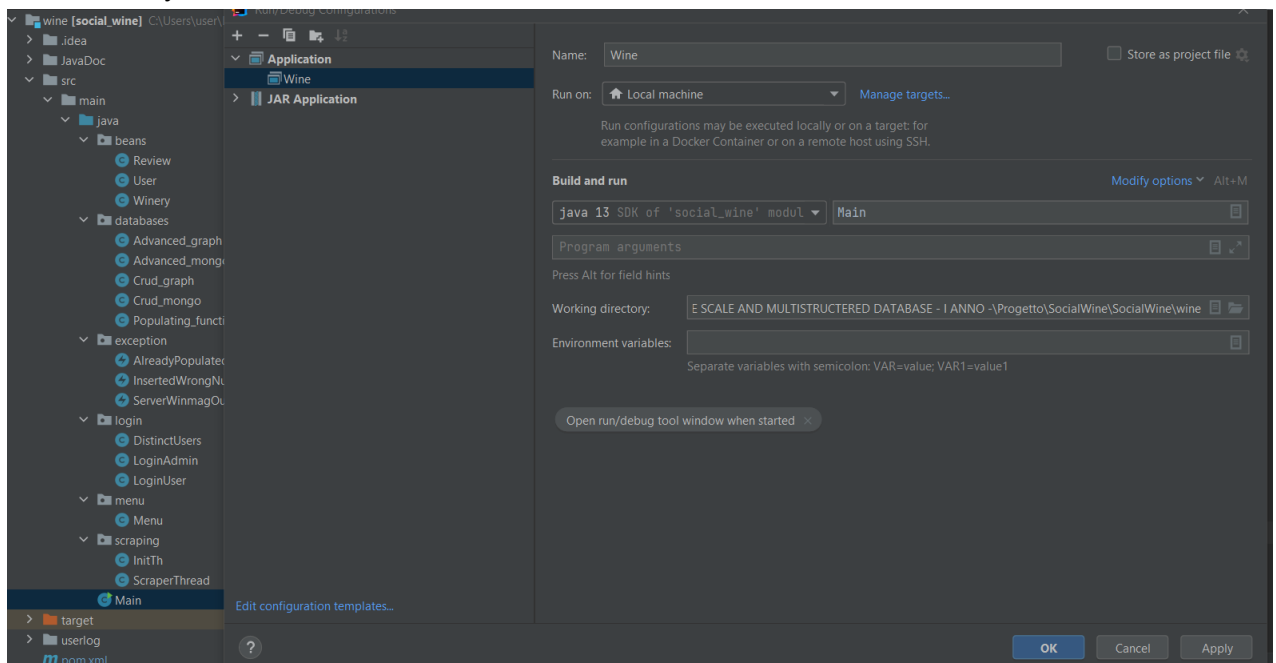
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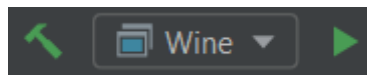
HOW TO START SOCIAL WINE

- 1) The laptop on which the application should reside in or be connected through VPN to the UNIFI internal network to allow the connection to the databases by the application;
- 2) The application doesn't have a Graphical User Interface (GUI) so must be run by an IDE like IntelliJ, Eclipse or similar.
- 3) Once downloaded the project from GitHub repository and after importing it inside the environment it's necessary to indicate the Main class and JDK to allow the execution.



In *Build and Run* section JAVA 13 is selected and Main class is selected as the starting point of the application. After this setting phase Social Wine is ready to be executed.

- 4) Now the program is ready to be executed so it's necessary to press green play button



CLI PRELIMINARY OPERATIONS

After the start, the CLI appears in this way. The effective program will start after three minutes because it's collecting new data from the website. In case new data retrieved will appear "Not empty cursor".

```
Program will start in 3 minutes from now  
Scraper in action:
```

```
Not empty Cursor  
{"Name": "Jim Gordon"}  
Adding to MongoDB
```

After the 3 minutes on the screen will be available the application menu in which only 3 possibilities are allowed.

```
***SOCIAL WINE APPLICATION***  
  
Are you user or admin?  
1 Admin  
2 User  
0 Terminate program
```

In any case after the choice username and password will be required. But depending on log-in, after, menu choices will change.

ADMIN CASE

If you are an Admin, you have to press 1

```
Are you user or admin?  
1 Admin  
2 User  
0 Terminate program  
1
```

If you insert a wrong number you will see the following message and will ask to you to re-insert the number

```
Are you user or admin?  
1 Admin  
2 User  
0 Terminate program  
4  
This is not a valid menu option... Please try again!  
  
Are you user or admin?  
1 Admin  
2 User  
0 Terminate program
```

If a string is inserted the following message will be show and the execution will stop instantly

```
Are you user or admin?  
1 Admin  
2 User  
0 Terminate program  
f  
exception.WrongInsertionException Create breakpoint : You inserted a string not a number. Please try again!.  
    at menu.Menu.MainMenu(Menu.java:53)  
    at Main.main(Main.java:22)
```

After that a username and a password will be required to verify rights of Administrator (Username: **admin** - Password: **root**).

```
Please insert your name and your password or press X to exit:  
Enter Username :  
admin  
Enter Password :  
root  
Access Granted! Welcome Admin!
```

If inserted credentials are correct you will see the following message “Access Granted! Welcome Admin!” otherwise application will require you to re-insert credentials.

```
Please insert your name and your password or press X to exit:
Enter Username :
ads
Enter Password :
ads

Please insert your name and your password or press X to exit:
Enter Username :
```

If for some reason it's not desired anymore to login in the application you can press X button to interrupt the execution.

```
Please insert your name and your password or press X to exit:
Enter Username :
X
Exiting program...

Process finished with exit code 0
```

ADMIN MENU

If LogIn phase was successful the following Menu is shown and you can choose what you want to do taking in consideration that case A can be executed only one time because populate Social Network taking in consideration review stored in MongoDB. The execution of A is limited to once to avoid duplicates on Social Network.

Case from B to D are Statistics while E and F add randomly relations between nodes in Social Network. Finally, case from G to L add node inside the Graph because Admin can add/remove users or wineries.

```
You can do this operations:
A Populate Social based on review collection of MongoDB
B Top 10 countries that have most wineries in descending order
C Display top-20 wines' varieties according to their mean price
D Top-5 users with the highest average of them review scores.
E Create 10 follow relation between selected user and 10 random people
F Create 10 like relation between selected user and 10 random post
G Add an user
H Ban an user
I Add a winery
L Drop a winery
X Terminate program

What you want to do?
```

Case “A”

If Social Network it's already populated with the review inside MongoDB the following message will be shown:

```
What you want to do?  
A  
Graph already populated You can't do this now!
```

Instead if Social Network is empty the population will proceed and several message will be shown:

```
Post added successfully (Neo4J).  
  
Page winery added successfully (Neo4J).  
  
Complete post added successfully (Neo4J).  
  
Post added successfully (Neo4J).  
  
Page winery added successfully (Neo4J).  
  
Complete post added successfully (Neo4J).  
  
Post added successfully (Neo4J).  
  
Page winery added successfully (Neo4J).  
  
Complete post added successfully (Neo4J).
```

Case “B”

This query will return the first ten country taking in consideration their wineries.

```
What you want to do?  
B  
{ "_id": "US", "wineryCount": 3845 }  
{ "_id": "France", "wineryCount": 3374 }  
{ "_id": "Italy", "wineryCount": 2030 }  
{ "_id": "Spain", "wineryCount": 1419 }  
{ "_id": "Argentina", "wineryCount": 528 }  
{ "_id": "Australia", "wineryCount": 419 }  
{ "_id": "Portugal", "wineryCount": 382 }  
{ "_id": "Chile", "wineryCount": 313 }  
{ "_id": "New Zealand", "wineryCount": 272 }  
{ "_id": "South Africa", "wineryCount": 252 }
```

Case “C”

This query will return the Top-20 wines' varieties according to their average price.

```
What you want to do?
C
{"_id": "Ramisco", "avgPrice": 495.0}
{"_id": "Terrantez", "avgPrice": 236.0}
{"_id": "Bordeaux-style Red Blend", "avgPrice": 231.31901840490798}
{"_id": "Pinot Noir", "avgPrice": 196.60425531914893}
{"_id": "Chardonnay", "avgPrice": 176.9952380952381}
{"_id": "Francisa", "avgPrice": 160.0}
{"_id": "Rosenmuskateller", "avgPrice": 150.0}
{"_id": "Port", "avgPrice": 140.5612244897959}
{"_id": "Bordeaux-style White Blend", "avgPrice": 132.96}
{"_id": "Muscadelle", "avgPrice": 132.42857142857142}
{"_id": "Marzemino", "avgPrice": 130.0}
{"_id": "Champagne Blend", "avgPrice": 120.21830985915493}
{"_id": "Malbec-Cabernet", "avgPrice": 113.33333333333333}
{"_id": "Tinta Negra Mole", "avgPrice": 112.0}
{"_id": "Bual", "avgPrice": 110.0}
{"_id": "Riesling", "avgPrice": 106.97560975609755}
{"_id": "Nebbiolo", "avgPrice": 105.14788732394366}
{"_id": "Red Blend", "avgPrice": 101.85714285714286}
{"_id": "Sangiovese", "avgPrice": 101.49606299212599}
{"_id": "Cabernet Sauvignon", "avgPrice": 98.29496402877697}
```

Case “D”

This query will return the first five users taking in consideration their reviews' average scores.

```
What you want to do?
D
{"_id": "Anne Krebiehl MW", "avg": 90.61257007966952}
{"_id": "Christina Pickard", "avg": 90.125}
{"_id": "Matt Kettmann", "avg": 90.03606347171021}
{"_id": "Virginie Boone", "avg": 89.22282951439983}
{"_id": "Mike DeSimone", "avg": 89.09552845528455}
```

Case “E”

This operation it's useful to create random “follow” relationship between users of the Social Wine.

```
What you want to do?
E
Name of the User that you would select
Mike DeSimone
Follow added successfully (Neo4J).

Follow added successfully (Neo4J).

Follow added successfully (Neo4J).

Follow added successfully (Neo4J).
```

[Roger Voss, Paul Gregutt, Michael Schachner, Kerin O'Keefe, Virginie Boone, Matt Kettmann, Sean P. Sullivan, Jim Gordon, Joe Czerwinski, Anne Krebiehl MW]

Case “F”

This operation it's useful to create “like ” relationship between a user and 10 posts. Working process is equal to Case “E”.

Case “G”

Allow to create an User manually. After creation will be added to MongoDB collection for statistics and on the SocialWine.

```
What you want to do?  
G  
Name of the taster that you want to add:  
Leonardo  
Twitter name of the taster that you want to add:  
@leonardo1999  
Successfully inserted user (MongoDB).  
  
User added successfully (Neo4J).
```

CASE “H”

Allow to ban User manually. After creation ser will be added to collection for statistics and on the SocialWine.

```
What you want to do?  
H  
Twitter name of the taster that you want to ban:  
@leonardo1999  
User deleted successfully...(MongoDB).  
User drop successfully (Neo4J).
```

CASE “I”

Allow to add a winery manually asking name and nationality.

```
What you want to do?  
I  
Name of the winery that you want to add:  
Enoteca Pisa  
Country of the winery that you want to add:  
Italy  
Successfully inserted winery (MongoDB).  
  
Page winery added successfully (Neo4J).
```

CASE “L”

Allow to delete a winery manually asking only its name after the visualization of all wineries in SocialWine.

```
, Doyenne  
, C'est Bon  
, Ceuso  
, Château Balac  
, Château des Annereaux  
, Château Larrivet Haut-Brion  
, Château Mancèdre  
, Château Peyredon Lagravette  
, Clos Beauregard  
, Dark Horse  
, Domaine Anderson  
, Dowsett Family  
, Feudo Antico  
, Gamache  
, Enoteca  
]  
  
Name of the winery that you want to drop:  
Enoteca  
Winery deleted successfully... (MongoDB).  
Winery drop successfully (Neo4J).
```

CASE “X”

If you want to terminate the application

```
What you want to do?  
X  
Exiting program...  
  
Process finished with exit code 0
```

USER CASE

If you are an user you have to press 2

```
***SOCIAL WINE APPLICATION***

Are you user or admin?
1 Admin
2 User
0 Terminate program
|
```

If you insert a wrong number you will see the following message and will ask to you to re-insert the number

```
Are you user or admin?
1 Admin
2 User
0 Terminate program
4
This is not a valid menu option... Please try again!

Are you user or admin?
1 Admin
2 User
0 Terminate program
```

If a string is inserted the following message will be show and the execution will stop instantly

```
Are you user or admin?
1 Admin
2 User
0 Terminate program
f
exception.WrongInsertionException Create breakpoint : You inserted a string not a number. Please try again!.
    at menu.Menu.MainMenu(Menu.java:53)
    at Main.main(Main.java:22)
```

After that a username and a password will be required to verify rights of User. Even Admin could log in in Standard User part because it's an user anyway.

Apart the Admin credentials, Standard user have to log in with the following Usernames with the same Password **abcd**:

- Roger Voss
- Paul Gregutt
- Michael Schachner
- Kerin O'Keefe
- Virginie Boone
- Matt Kettmann
- Sean P. Sullivan
- Jim Gordon

- Joe Czerwinski
- Anne Krebiehl MW
- Lauren Buzzeo
- Mike DeSimone
- Jeff Jenssen
- Susan Kostrzewa
- Leonardo

Other users can be used, they could be inserted from the scraper or could be created by the Administrator like the last one Leonardo.

In the image the logged user is Roger Voss.

```
Please insert your name and your password or press X to exit:
Enter Username :
Roger Voss
Enter Password :
abcd
Access Granted! Welcome!
```

If the users credentials are correct User menu will be shown, otherwise the following message will be shown and the program has to be restarted.

```
Please insert your name and your password or press X to exit:
Enter Username :
Rog Vossf
Enter Password :
abcdef
User credentials are incorrect!

Process finished with exit code 0
```

If during the insertion is not anymore desirer to continue with Social Wine you can press X to terminate the application.

```
Please insert your name and your password or press X to exit:
Enter Username :
X
Exiting program...
```

STANDARD USER MENU

If the Login phase was successful the following menu will appear. All the following operations are applied on Social Network.

```
You can do the following things:
A Follow your friend
B Unfollow a friend
C Put like on a Post by Title
D Put like on a Post by its Description (body)
E Delete like on a Post
F Add a Post on the social
G Suggested friends' list and follow one of them
H Discover the top 5 trending Post on the social and put like on one of them
I See all user followed and unfollow one of them
L See all reviews in Social Wine by description
M See all review from taster_name
X Terminate program
```

Case "A"

You have to indicate the name of people that you want to follow.

```
What you want to do?
A
Who do you want to follow? Name:
Mike DeSimone
Follow added successfully (Neo4J).
```

Case "B"

You have to indicate the name of people that you want to unfollow.

```
What you want to do?
B
Who do you want to Unfollow? Name:
Mike Desimone
Follow drop successfully (Neo4J).
```

Case "C"

This case allows to put like on a Post given its title.

```

What you want to do?
C
Which post you want to like? TitlePost:
Il vino è buono
Like reaction successfully inserted (Neo4J).

```

Case “D” - Case “L”

Before applying case D it is strongly recommended to apply Case L to see the reviews by description and then choose one and copy and paste it when you choose case D and it will ask the description.

```

What you want to do?
L
This is the list of all post that are in Social Wine:
[This is ripe and fruity, a wine that is smooth while still structured. Firm tannins are filled out with juicy red berry fruits and freshened with acidity. It's already drinkable. Tart and snappy, the flavors of lime flesh and rind dominate. Some green pineapple pokes through, with crisp acidity underscoring the flavors. The wine was all stainless-steel. Much like the regular bottling from 2012, this comes across as rather rough and tannic, with rustic, earthy, herbal characteristics. Nonetheless, if you think of it as a pleasure, Blackberry and raspberry aromas show a typical Navarran whiff of green herbs and, in this case, horseradish. In the mouth, this is fairly full bodied, with tomatoey acidity. So here's a bright, informal red that opens with aromas of candied berry, white pepper and savory herb that carry over to the palate. It's balanced with fresh acidity and soft tannins. This dry and restrained wine offers spice in profusion. Balanced with acidity and a firm texture, it's very much for food. This has great depth of flavor with its fresh apple and pear fruits and touch of spice. It's off dry while balanced with acidity and a crisp texture. Drink now. Soft, supple plum envelopes an oaky structure in this Cabernet, supported by 15% Merlot. Coffee and chocolate complete the picture, finishing strong at the end, resulting in a
]
Which post you want to like? Description:
Here's a bright, informal red that opens with aromas of candied berry, white pepper and savory herb that carry over to the palate. It's balanced with fresh acidity and soft tannins.
Like reaction successfully inserted (Neo4J).

```

Case “E”

Indicate title of the Post to put unlike on it.

```

What you want to do?
E
Which post you want to delete like? TitlePost:
Il vino è buono
Like drop successfully made it (Neo4J).

```

Case “F”

To insert a new post you have to insert the title, description, winery where you buy it, winery's country, points that you want to give to wine and price. After that your post is online.

```
What you want to do?
F
Add post in the social network
Insert the title of the post
Il vino è stato introvabile e molto costoso
Insert the review of the wine
Il suo retrogusto è molto forte. L'ha pagato molto ma vale tutto il suo prezzo.
Insert the winery name of the wine
EnotecaP
Insert the winery country of the wine
Italy
Insert the points of the wine
98
Insert the price of the wine
145
Successfully inserted review.

Post added successfully (Neo4J).

Page winery added successfully (Neo4J).

Complete post added successfully (Neo4J).
```

Case “G”

Here it's suggested a list of potential friends and for each user is given a number. You can choose to follow a user and specify his number.

```
What you want to do?
G
This is the list of suggested user for you:
For each suggested user of the list is assigned a value! Write the number corresponding to the user that you want as friend...
This is the list with the numbers:
{1=Sean P. Sullivan, 2=Paul Gregutt, 3=Joe Czerwinski, 4=Jim Gordon, 5=Matt Kettmann}
Enter the number (0 if the list is empty): 1
Follow added successfully (Neo4J).
```

Case “H”

You will see the top 5 trending post of SocialWine. For each post is assigned a number and you can put like on one of them by writing the number of the post that you like.

```
What you want to do?
H
This is the list of the trending post on SocialWine (title = num like)
{Jean-Baptiste Adam 2012 Les Natures Pinot Gris (Alsace)=1, Kirkland Signature 2011 Mountain Cuvée Cabernet Sauvignon (Napa Valley)=1,
{Jean-Baptiste Adam 2012 Les Natures Pinot Gris (Alsace)=1, Kirkland Signature 2011 Mountain Cuvée Cabernet Sauvignon (Napa Valley)=1,
For each trending post is assigned a value! Write the number corresponding to the post to put like on...
This is the list with the numbers:
{1=Jean-Baptiste Adam 2012 Les Natures Pinot Gris (Alsace), 2=Kirkland Signature 2011 Mountain Cuvée Cabernet Sauvignon (Napa Valley),
Enter the number (0 if the list is empty): 1
Like reaction successfully inserted (Neo4J).
```

Case “I”

If you don't remember your friends in Social Wine, by this case I, you will see your friend and unfollow one of them directly. For each friend is assigned a number and if you want to unfollow someone you have to specify the number assigned to him.

```
What you want to do?
I
For each of your friend is assigned a value! Write the number corresponding to the friend that you want to unfollow...
This is the list with the numbers:
{1=Joe Czerwinski, 2=Mike DeSimone}
Enter the number (0 if the list is empty): 2
Follow drop successfully (Neo4J).
```

Case “L”

It's useful if you want to see all post of a specific user.

```
What you want to do?
L
Insert the name of the taster that you would see reviews
Mike DeSimone
Title of the post = Yatir 2011 Syrah (Judean Hills)
Description of the post = This wine features pleasing aromas of raspberry, jumper berry and black pepper. There is a nice mélange of fruit and spice flavors,
Title of the post = Or Haganuz 2014 French Blend Red (Galilee)
Description of the post = Aromas of blackberry, fennel bulb and smoke set the scene for flavors of cherry, raspberry, chocolate and tobacco leaf. Mellow but e
Title of the post = Dalton 2013 Alma Semillon-Viognier-Pinot Gris White (Galilee)
Description of the post = This offers aromas of honeydew melon and vanilla. On the palate, gentle flavors of nutmeg, cinnamon and eucalyptus predominate over
Title of the post = Chamlija 2014 Papaskarasi (Thrace)
Description of the post = From a winery that specializes in this rare variety, this single varietal Papaskarasi has a nose of cherry, strawberry and freesia.
```


CASE “X”

If you want to terminate the application

```
What you want to do?  
X  
Exiting program...  
  
Process finished with exit code 0
```