UML & Java Programming Course – Final Exercise Exercise Description

Data Set:

Wuzzuf jobs in Egypt data set at Kaggle https://www.kaggle.com/omarhanyy/wuzzuf-jobs

Task:

- Build all java needed classes (POJO, DAO, web service and a tester client for the web service)
- Make a web service to get the following from the data set:
 - Read data set and convert it to dataframe or Spark RDD and display some from it.
 - 2. Display structure and summary of the data.
 - 3. Clean the data (null, duplications)
 - 4. Count the jobs for each company and display that in order (What are the most demanding companies for jobs?)
 - 5. Show step 4 in a pie chart
 - 6. Find out What are it the most popular job titles?
 - 7. Show step 6 in bar chart
 - 8. Find out the most popular areas?
 - 9. Show step 8 in bar chart

- 10. Print skills one by one and how many each repeated and order the output to find out the most important skills required?
- 11. Factorize the YearsExp feature and convert it to numbers in new col. (Bounce)
- 12. Apply K-means for job title and companies (Bounce)

Team:

Group of three students.

Deliverables:

- Each team must share with us a git hub link for a maven EE application.
- Each team must be ready to present his work.