Final Lab - EPAW

General Considerations:
- **GOAL**: Apply all the knowledge you have acquired along the subject.
  - o Your web has to be structured using <div> elements and CSS or an equivalent approach.
  - o Your web has to use CSS to define the visual properties of its elements.
  - o Your web has to use AJAX to update its content.
  - o Your web hast to be organized using the MVC.

In the final lab, you have to implement your own Twitter by <u>following the work you have previously done along the subject</u>. In order to pass the subject, we have defined the following mandatory components that your site has to accomplish:

- System must contemplate three types of users:
  - o Anonymous.
  - o Registered.
  - o Administrators.
- Anonymous users should be able to view:
  - o *Personal pages* of registered users, which shows the public information and tweets of a particular user,
  - o *Global timeline* which shows either latest or most popular tweets.
- Registered users should be able to view:
  - o *Personal pages* of registered users,
  - o Their *profile*, where they can view and edit their own information (e.g. Name, username, profile picture etc.)
  - o *Global timeline*
  - o *Personalized timeline* which shows tweets only from the users they follow.
- Each user can publish tweets, edit and also delete them.
- Users can follow/unfollow other users.
  - o There should be a mechanism for new users to find and follow other registered users. This could be a "who to follow" page showing a list of registered users or they can find users from the *global timeline* of popular tweets. You can also implement a search mechanism for this.
  - o You should create a view where all the followed users are listed in order to access their public personal page or unfollow them.
- An admin user can edit/delete:
  - o User accounts.
  - o Personal pages, profiles and Tweets.

If your web meets above requirements you will obtain a maximum of 7. Thus, we provide a set of "extra" tasks that will raise your grade 1 point up to 9 (you have to implement 2 of them):

- Tweets can be commented/replied.

- Option to like/dislike a concrete tweet (also the comments if it's the case).
- Retweeting.
- You can also propose your own extra features, <u>but</u> <u>they</u> <u>have</u> <u>to</u> <u>be</u> <u>approved</u> <u>by</u> <u>us</u> <u>if</u> <u>you want them to be graded</u>.

The last point will evaluate the <u>final</u> <u>report</u> <u>you</u> <u>will</u> <u>have</u> <u>to</u> <u>submit</u>. The report should describe the functionality of your project and also report important technical details using MVC and UML diagrams. It has also to contain a diagram explaining your database structure. Further explanations -as the CSS used for the site or also the navigation structure- will also be considered. **IMPORTANT**: reports of more than 10 pages will not be evaluated.

SUBMISSION:

- PDF with the final report.
- WAR file with the Java sources included.
- Dump of the DB.
- README file with deployment (how to install properly) instructions.

DEMO:

Final exam will consist of the demo of your site where each member MUST be present. After going through the functionalities of your site, each member will be questioned on a random functionality and be graded accordingly.