



3JVA – Enterprise Application Development Project

Document content

Subject
Delivery

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1 CONTEXT

SupPictures is a form to share pictures.

Each user can publish an add to share pictures.

Visitors can list pictures and search for a picture by search engine.

A user must have an account to share a picture.

To add a picture it is possible to classify it in one of the categories (nature, automobile, animal).

You are you're free to add more categories.

This project must be done by groups, each containing 3 or 4 students maximum.

2 SPECIFICATIONS

The first version of the website will be composed of several functionalities listed below:

- As anonymous:
 - View a short description of this service and statistics of use in the index page
 - Search a picture in the platform
 - View details of a picture
 - Use a Web service to list pictures and view details
 - Register as a new user, authenticate himself
- As a registered user:
 - Add/Delete/Update a picture
 - View and edit his profile
 - View his pictures history (visitor count)
 - Log out
- As an administrator:
 - Show and manage all users
 - Manage all pictures

You have to use Servlet/JSP implementing JSP Model 2 Architecture and JPA implementing good practices (DAO, Factories, ..)

2.1 DATA STRUCTURE

Before starting the project, draw an UML class diagram representing the JPA Entities you will need with their relationships.

This diagram will be useful for you and for the team that will develop the next version of the platform.

The class diagram must be returned in **jpeg, png or pdf** format (otherwise your Teacher will hate you!).

2.2 INDEX PAGE

For anonymous, the index page must show a short description of this service and statistics of use (number of users, number of pictures).

A list of recent pictures is displayed on the index page.

A click on a picture redirect the visitor on a page to show details of the picture.

A navigation area must be displayed on the top of all pages (login, register, search engine).

For authenticated users, the navigation area displays a logout link, and a link to manage his profil.

2.3 REGISTER AND AUTHENTICATE

When registering, users have to give some details about them, like username, phone number, first name, last name, email address and password. Of course, you'll have to check user input. When the user registers himself, it must log him in too.

The user can authenticate by a dedicated log in page with his username and password.

2.4 SEARCH ENGINE

The search engine is in the index page.

To search a specific picture in the platform, an user can search by categories or/and by word search on the description or name of each pictures of the choose category or the locality of the user.

2.5 PICTURE

A picture ad must be composed be a name, a description, a file send by user (jpg,png) , a date of publish and a category if the user has indicated one.

2.6 USERS

A user is defined by a username, a password, a phone number, last name, first name, postal address and email.

2.7 WEB SERVICE

You need to create a web service to list pictures and use the search engine.
This web service must be a REST Web service.

2.8 VIEW AND EDIT HIS PROFILE

Users can view a profile page in order to change their details (except username).
He can views, delete, add and update his pictures.

2.9 LOG OUT

This functionality must log the user out.

2.10 ADMIN PANEL

In Admin panel, an admin can view and manage all users and all pictures.

3 INSTRUCTIONS

- Plagiarism is forbidden.
- Make accessible his code on a public sharing platform (as GitHub) before the end of the evaluation is forbidden.

Don't abiding by these rules will result in suspension of your assessment and will be considered cheating.

4 NOTATION

Functionalities	Points
Data Structure	1
Index page	4
Search engine (categories, word, locality search)	3
Security (register, auth, log in/out, filters)	2
Pictures management page	2
Picture details page	2
View and edit profile	2
Administration panel	2
Web service	2
DAO	2
Web Design	2
Code Quality & Conventions (bonus)	2
Oral defense Group presentation	1
Oral defense Project presentation	1
Oral defense Development management	2
Oral defense Questions/Answers	2
TOTAL	32/30

5 RETURN

Return your graded exercise as a ZIP archive.

You will send the archive **before the end of the evaluation**. After that delay, your graded exercise **will not be corrected and the mark 0 will be assigned to you**.