SUPINFO Academic Dept.

SUPINFO International University

INSTITUTE OF INFORMATION TECHNOLOGY

3JVA - Enterprise Application Development Project

Document content

Subject
Delivery

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1 CONTEXT

SUPINFO wants to create its own trip service and needs you to develop it. Because it needs to be powerful and scalable you naturally choose to use Java Enterprise Edition Technologies.
SUPINFO wants to create SupTrip.
SupTrip provides student travel deals.

This project must be done by groups, each containing 3 or 4 students maximum. Working in a bigger group will be sanctioned by penalties points.

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 in the index page
  - Register as a new user, authenticate himself
  - Use a web service

- As a registered user:
  - Search Trip
  - List Trip from campus name
  - Add Trip in bag
  - Process order
  - View and edit his profile
  - Log out

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

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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 trip). You are free to add others statistics.

A navigation area must be displayed on the top of all pages (login, register).
For authenticated users, the navigation area displays a logout link, a link to his profile and the bag.

This page displays trips saved in database.
You must add all possibilities of trip between SUPINFO campuses.
A search bar based on the name of camus is displayed to find a trip.

Show a button for each item to add it in bag.

2.3 REGISTER AND AUTHENTICATE

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

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

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2.4 PROCESS ORDER

When the authenticated user click on the bag on navigation area, he can process to order.
This page asks the user to confirm the order.

The confirmation page will display all detail of the order with each trip details and empty the bag.

2.5 VIEW AND EDIT HIS PROFILE

Users can view a profile page in order to change their details (except idbooster).

2.6 WEB SERVICE

This application provides a web service (REST) to list trip and search trip by name of campus.
This Api returns JSON only.

1.1 LOG OUT

This functionality must log the user out.

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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	5
Security (register, auth, log in/out, filters)	4
Search trip on index page	3
Add Trip in bag	3
Process order	2
View and edit profile	2
Dao factory is use	2
MVC Pattern Servlet/JSP/DAO	3
Webservice list Trip	2.5
Webservice search trip from airport name	2.5
Design	3
Code Quality & Conventions	2
TOTAL	**35/35**

5 RETURN

Return your graded exercise as a ZIP archive named as follows:

3JVA_SupTrip_Campus_IdBooster.zip.

For example: 3JVA_SupTrip_Troyes_10000.zip
Not following this convention will result in point loss.

You will send the archive **to your Teacher SUPINFO email address and a copy to 3JVA@supinfo.com** to secure your project. Send it **before the 13th December 2015 before 23:59**. After that delay, your graded exercise **will not be corrected and the mark 0 will be assigned to you**.

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