

## Web Development 1 (Java ) Assessment January 2021

You are required to build the system below using the Struts2 web framework, storing and accessing data in a MySQL database using JDBC.

### Payroll Annual Tax Report System

1. Register as an admin **or** a user submitting your staff number, name and password. These should be stored a user table in the database along with the user's role (admin or user).

#### ADMIN

1. Login using staff number and password. Store the staff number of the logged in user in the session.
2. Add employee. To add an employee, input and store employee name, staff number and pps number, store these in the database in an employee table.
3. Calculate a tax report for a chosen year and employee. The employee staff number, year and salary should be input only. Calculate their tax for the input year using the tax table below. Store the year, net salary, tax due and gross salary and a reference to the employee in a tax table in the database, and display it to the admin as below on the resulting page (note the use of the staff member's name which will need to be accessed from the employee table):

**Annual Tax report for staff member Jane Doe for 2021**

**Gross Salary 40000 Tax Due 8940 Net Salary 31060**

4. View all employee tax reports as per below

#### **Annual Tax reports for all staff**

<b>Name</b>	<b>Staff number</b>	<b>Year</b>	<b>Gross Salary</b>	<b>Tax Due</b>	<b>Net Salary</b>
Jane Doe	97656	2021	40000	8940	31060
Steve Smith	56789	2020	28000	5600	22400
John Doe	86278	2022	50000	12640	37360
John Doe	86278	2021	50000	12940	37060

5. Remove an employee.
6. Show total tax due for a chosen year e.g.,  
**Annual Tax Due for 2021 : 21880**
7. Logout, remove the logged in user from the session.

#### USER

Users have access to the 3 options below only. They cannot access admin functionality.

1. Login. Store the staff number of the logged in user in the session.
2. Logout, remove the logged in user from the session.

3. View their annual tax report. If they choose to view their tax reports they should see all available reports for them e.g.,

**Annual Tax reports for staff member John Doe**

**2022 Gross Salary 50000 Tax Due 12640 Net Salary 37360**

**2020 Gross Salary 50000 Tax Due 12940 Net Salary 37060**

Tax rates for the purpose of this assignment are as follows for all staff:

2022	€36800 @ 20%	balance @ 40%
2021	€35300 @ 20%	balance @ 40%
2020	€35300 @ 20%	balance @ 40%
2019	€35300 @ 20%	balance @ 40%

## Submission

The time allowed for this assessment is 2 weeks. Deadline is **midnight Monday 24<sup>th</sup> January**. Extensions will be granted in **exceptional circumstances only** and medical or personal circumstances forms will need to accompany any extension request. This assessment is worth 60% of the Web Development 1 (Java) module and replaces the written exam.

Submissions should be made via Brightspace.

ENSURE to submit all **.java files** (NOT .class files), your .jsp files and your struts.xml. A demo video is required for your assignment submission. This is to demonstrate your understanding and ownership of the code. This should be uploaded (unlisted) to youtube as per instructions below. Show all working functionality in the demo, show all database tables containing the data from your webapp and explain anything that doesn't work. It should be 10 minutes or less. Copy the link and include it CLEARLY in your Brightspace submission.

All work submitted must be completed by you alone, without assistance and with full knowledge that you have not shared your work with anyone else. All indications of plagiarism will be investigated fully. Any student whose work is submitted for assessment containing material that is plagiarised may be subject to action in accordance with the University's City Campus procedures for breaches of assessment regulations.

Information on plagiarism and the consequences can be found at the links below

<https://www.tudublinsu.ie/advice/exams/breachesofregulations/>

<https://www.tudublin.ie/media/website/explore/about-the-university/academic-affairs/quality-framework/documents/gar-revised-final-November-18-for-website-revised-Dec21.doc>