The Qt Company

TASK 1 - PERSONNELL MANAGEMENT APPLICATION

Your task is to design and implement a company personnel management application. Design your application so that the UI part could be replaced easily. You should make a simple graphical user interface using Qt-framework. You are allowed to use a graphical user interface builder. User interface should contain only basic functionality to set and get relevant information (see tables below). You should also make a simple information structure, where employees can be added and stored. In the following section there is a description of the employee information that your application should be able to contain.

The company has different kinds of workers. The following table tells you what kind of information you should save of each worker so that you would then be able to print out all this information of all the saved workers at the same time (e.g. in the form of a list).

Monthly paid employee	**Hourly paid employee**	**Salesman**
Name	Name	Name
Social security number	Social security number	Social security number
Monthly compensation	Hourly Compensation	Monthly compensation
	Done hours	Bonus %
		Realized outcome
		Outcome claim

The workers clearly differ from each other in the salary formation.

Employee	**Salary Formation**
Monthly paid employee	Monthly compensation
Hourly paid employee	Done hours*hourly compensation
Salesman	Monthly compensation raised by the bonus % if the outcome claim comes true

Based on this information you should make a class hierarchy or a data structures for your company personnel management application. If you include extra functionality in your application you should document them also.

You can fill up all relevant information that is missing with reasonable assumption.

Return the following deliverables via e-mail preferably compressed with a GZip-tool:

- **All project files (.pro, .cpp, .h, .qml, …)**

The Qt Company

TASK 2 – Debugging

In the attached qt_debug.tar.gz-file there are three sample Qt-projects which all suffer from various issues.

Please describe what kind of issues you see in each one. In every main.cpp-file per project there are some guiding questions, but feel free to come up with your own answers.

You can also concretely fix the samples if you want to, but mainly we want to see what your thoughts are as you read through the code.

Keep in mind that Qt is multi-platform toolkit that needs to run on the three major desktop platforms, various mobile platforms, as well as embedded systems.