

## IN2013, Week 2 – Object Oriented Analysis: Packages

Dr Peter T. Popov

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**Question 1 (using roles and associations in class diagram).** Using the case study BAPERS and the class diagram provided in Appendix 1 refine the class model as follows:

- Is the use of CashPayment as a separate class necessary?
- Are card details part of payment? Consider splitting card details from card payment and introduce any new associations/roles that might be needed.

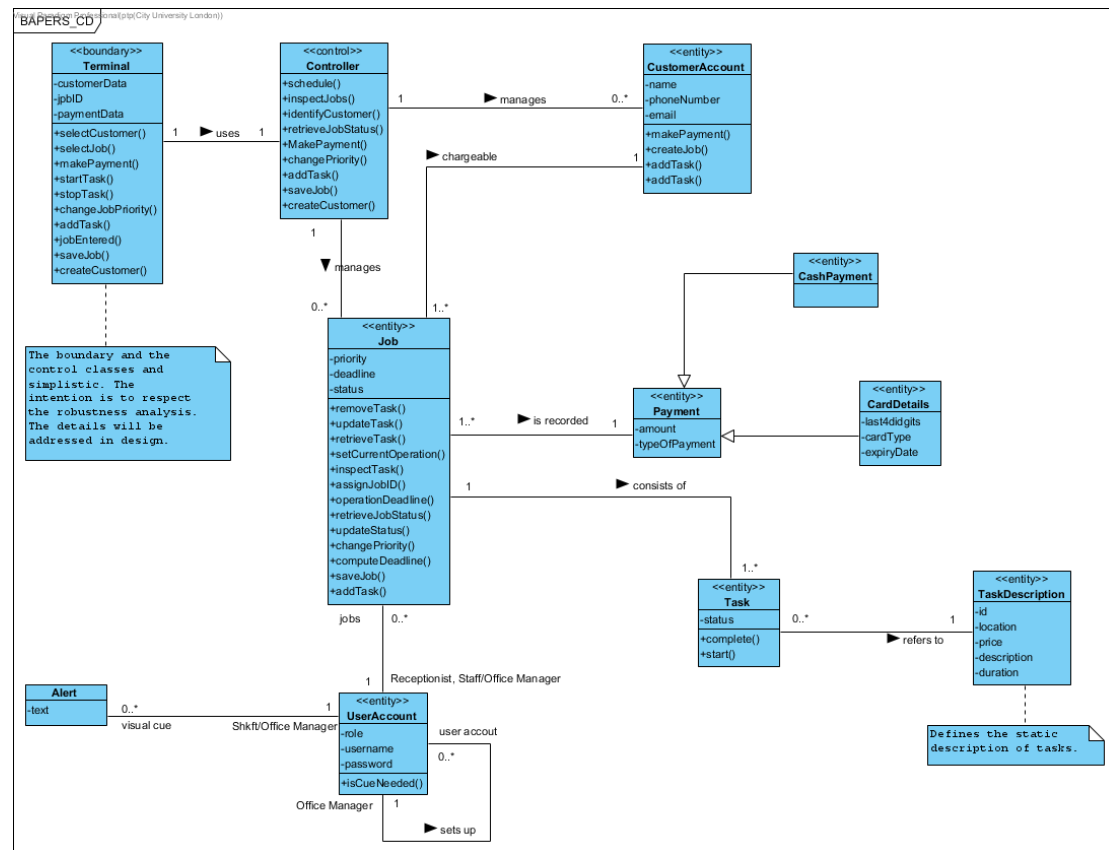
**Question 2:** Consider the use of packages with class diagram. Explore different ways of grouping the classes into packages and draw a class diagram showing explicitly classes and packages.

- Ideally you should try to achieve **loose coupling** between packages, e.g. minimize the number of associations crossing the package boundaries.
- Make sure that you do not lose associations between packages that belong to different packages
- Pay attention to the syntax of showing these associations.

**Question 3:** Now having identified the packages, show a 'package diagram', i.e. one in which only the packages are shown together with dependencies between them.

## Appendix 1

### BAPERS – first cut analysis class diagram.



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