ETM 555 Design of Information Systems  
Homework 1 (due Dec. 2nd)  
(to be done in groups of 3 students)

**Problem 1**
Pick one organization from the following list:
- Hospital
- Bank
- University
- Supermarket chain

a) Write a privacy policy statement for the web site of the organization. You should prepare both an English and a Turkish version of your statement. Also, your statement should be in your own words (i.e. not cut and pasted from various hotel web sites on the Internet).

b) Explain what you (as the IT department of this organization) will do in order to satisfy the principles of the European Data Protection Act principles. (Here you should explain technical and organizational measures that will be taken to satisfy these principles.)

**Problem 2**
Suppose a company has asked you to build a web based information system for a nationwide best photo contest. Users all over the country will be able to upload photos (at most 5 photos per participant) to the web site. The contest will run for 2 months.

Estimate:
- a) how much storage you will need
- b) what kind and how many servers you will need (e.g. database server, web server etc.)
- c) other resources such as internet bandwidth etc.

Suppose you will use Amazon cloud services to implement your information system. Using the pricing information given at: http://aws.amazon.com/ec2/pricing/ calculate how much you will pay for such a system. Note: please estimate your costs for various numbers participants. For example, for 1000, 10000, 100000.

d) Additionally, estimate how much you would have to pay if you were to purchase these resources.

Note that you should explain in detail all the calculations and show your numbers in an excel table.