Contact

Sara Bouchenak

Sara.Bouchenak@imag.fr   http://sardes.inrialpes.fr/~bouchena/teaching/

Building Cloud applications

1. Objectives

- Build Cloud Computing services
- Deploy online services on Google App Engine cloud

2. Description

I.   Preliminary example

- Create a user account on Google App Engine
- Build a Servlet-based service
- Deploy the service on Google App Engine cloud
- Test your online service

II.   Social network

- Build a social network service with the functionalitie described below
- Make your own design and implementation choices for building the service
- Deploy the service on Google App Engine cloud
- Test your online service
- Main functionalities of a social network service are:
  - o A user may join the service.
  - o Users have visible profiles.
  - o Users have "friends" who are other users of the service.
  - o A profile is generated from answers to questions, such as age, location, interests, etc.
  - o A user can search for other users with similar interests.
  - o A user may browse another user's network of friends.
  - o User profiles often have a section dedicated to comments from friends and other users.

III.   Additional features of a social network service
  - o The service may allow users to upload pictures, add multimedia content or modify the look and feel of the profile.
  - o The service may allow to create groups of users that share common interests or affiliations.

3. Prerequisites

- Java programming, or any other programming language

4. Software environment

Directory organization

Organize your directory as follows:
- src/
  - .java files
- classes/
  - .class files
- doc/
  - Javadoc API and HTML files
- lib/
  - .jar files