Course Project

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Each student has to choose one of the 4 projects below to implement as his/her course project.

The project should be implemented with Socket Programming. There is no special requirement for developing tools or deploy environments.

Cheating will not be tolerated. Any submitted work that is found to be a product of such practice will receive a grade of zero and will be reported. The instructor reserves the right to ask you to explain the work you have done and if you are not able to do it to consider that it is not yours.

Project 1. Web Server

Requirements:

◦ The web server should response the http request from user agent correctly.

◦ The web server should be capable to serve at least 2 http user agent simultaneously.

Hardness Coefficient: 0.90

Project 2. Email User Agent

Requirements:

◦ Users can download emails from his/her email box by this agent

◦ Users can send his/her emails thru this agent.

◦ This agent can access at least 2 real email servers.

Hardness Coefficient: 0.9

Project 3. Query-flooding-based Resource Sharer

Requirements:

◦ Each peer can share its resource (files or sub-directories) in a specially appointed directory

- ◦ **Each peer can search the needed resource in the query flooding approach.**

- ◦ **Peers can download the resource from the first peer who sent query hit message in C/S mode**

Hardness Coefficient: 1.0

Project 4. Instant Messaging Utility

Requirements:

- ◦ **Users chatting in p2p approach.**

- ◦ **User can find another user in a central server**

- ◦ **Login authentication should be supported**

Hardness Coefficient: 0.80

Course Project Submission

After finish course project, students should submit the materials below:

- ◦ **Project Report: The description of developing environments & tools, design architecture of your system, and install & user manual of your system.**

- ◦ **Source files of your system**

- ◦ **Executable files/install package of your system**

Course Project Submission (Cont.)

The course project has to be completed before 16th week.

An electronic copy of course project report, source code, executable files should be submitted on course web site