Computer Network Project

2010.5.26

About Term Projects

- Term project is Chatroom or Free project
  - The score of chatroom ≦ 100
  - The score of Free project ≦ 120
- Free project
  - Title is free
  - 2 or 3 members
  - It can be combined with projects of other courses
  - It must have challenges for networking
- Chatroom: single member

Free Project

- Scoring rule of the free project
  - Novelty 40pt
  - Implementation Challenge 40pt
  - Presentation (proposal + demo) and Result (demo) 35pt

Deadlines

- The proposal presentation of free projects
  - 6.9 proposal presentation (10 min/group)
- Demo
  - Chatroom 6.29
  - Free project 6.30

6.16 (Wed.) 端午節
6.23 Final Exam.

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	15	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

Free Project

- The proposal presentation must include:
  - Introduction
  - Challenges
  - Proposed solution
  - Demo environment (how to show the performance?)

An Example of Proposal Presentation

Introduction

- P2S: A Low Startup Delay P2P Streaming System
- Background: what is a P2P streaming system
  - &^%&*&(&(*&(&()^
- What is the differences from PPLive (optional)
  - %^^(*&_*^&*%*&^*(&

Challenges

- Peer selection
  - How to select a good peer which can provide high upload bandwidth and have desired data
- Packet scheduling
  - How to arrange the schedule of packet request and sending

Proposed Solution

- Peer selection
  - ISP-aware: ^*&)^*((*)^)(*
  - Why is ISP-aware?
  - How to achieve ISP-aware?
- Packet scheduling
  - Rarest-first
  - Why is rarest-first?
  - How to achieve rarest-first?

Demo Environment

- Limit the server bandwidth: 300 kbps
- The video bit-rate: 300 kbps
- 4 clients to share the same video

Others

- Go to google document to select project selection and group members
  - https://spreadsheets.google.com/ccc?key=0ApLwMH1YTc3vdEZsYO9BTkRDRW1DbHBfWTNGaW1YQkE&hl=en
  - Deadline: 6/1