Team Project

CSE 6324, Summer 2017

Project Topic

- You will use Java to implement the following protocol:
  - FTP: https://www.ietf.org/rfc/rfc959.txt
- Must-have features: Features specified in Minimum Implementation (Section 5.1)
  - You only need to implement the File structure; thus, no need to implement the STRU command
  - Command and data connections must be separate
- Other features are nice-to-have
  - Up to 20 bonus (project) points, only after must-have features have been implemented correctly

Concurrency Requirements

- A client can transmit multiple files at the same time
  - Each transmission must use a separate connection
  - Different connections must be managed by separate threads
- A control thread is responsible for managing different transmissions on the client side
  - Status update: The control thread can query the status of one or more transmissions
  - Cancel: The control thread can cancel one or more transmissions
- The server can support multiple clients at the same time
  - A control thread is responsible for managing transmissions in a way that is similar to the client side

Project Team

- Three members per team
  - One team will have four members
- Diversity is strongly recommended
  - Experienced combined with less experienced, team up with someone you just met in the class, people from different cultures, and so on.
- Contributions of each member must be clearly specified in the final report.
  - A non-contributing member will be kicked out and will receive zero points for the project evaluation

Collaboration Plan

- Team should meet at least three times each week
  - Meeting minutes must include attendance, individual status updates, and action items, and must be submitted every week
- Disputes must be solved by yourselves
  - A member who is not collaborating is given a warning first, and is kicked out by team majority, if no improvement is made after the warning
  - An evicted member will not be given any make-up opportunity and will receive zero on the project

Milestones

- Proposal: No more than 5 pages, Due by June 26
  - Team Members, High-Level Design, Member Responsibilities, Collaboration Plan, Scheduling Estimates
- Presentation & Demo: July 5, 6
  - Presentation: 20 minutes for each team, including a live demo
- Final Report: Due by July 6
  - High-level designs, member contributions, lessons learned
  - Source & executable code, README

Evaluation

- Correctness (50%): Satisfies both functional and non-functional requirements (usability, performance, robustness and others)
- Quality of Code (15%): Easy to read and maintain, adequate comments,
  - The Java coding convention is strongly recommended.
- Quality of Documents (15%): Well-written, informative, and easy to read
- Presentation (20%): Quality of the slides, delivery, and knowledge about the subject matter

Awards

- Two awards, Best Project and Runner-Up, will be given based on votes by the whole class
  - Best Project: 10 bonus (project) points; Runner-Up: 6 bonus (project) points
  - Ties will be broken by the Instructor & TA
  - Something nice to put on your resume!

Presentation Attendance

- Absence must be justified and approved in advance or at the earliest possible time
  - If an absence has already occurred, approval requires exceptional justification and proof of support
- Points will be taken off for each unapproved absence (from the final grade)
  - 1st absence: 4 points; 2nd absence: 6 points
  - Lateness (5 or more mins): 1 point for every 5 mins, less than 5 will be rounded to 5