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Add WeChat powcoder

COMP 3331/9331 Assignment Project Exam Help Assignment T3 2020

Online Discussion Forum Add WeChat powcoder

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All details dans in the cospectification

- READ THE SPECIFICATION
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- Information about deadlines, file names, submission instructions, marking guidelines, example merschors and various other specifics are in the specification Add WeChat powcoder
 • Choice of programming languages: C, Java, Python
- This talk provides a high-level overview

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Client Seave Wacobi to stude

- Server
 - Always on
 - Responsible for Amaging the discussion of the transfer of th
 - Maintains state about the forum
 - Implements a request/response API for interacting with client(s)
 Prints informative updates at the reminal common co
- Client

- Allows a user to interact with the discussion forum
- Interaction is through the command line terminal
- Transport Protocol
 - Must use TCP

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Execution Add WeChat powcoder

- Server
 - Command line arguments:
 - Server port (use a vage greater than Piesch Exam Help
 - Admin password (used for shutting down the forum)
 - Executed first waits the remarks we confected m

- Client
 - Command line arguments:
 - Server IP address (use "localhost" as client(s) and server will be executing on same machine)
 - Server port number (should match the first argument for the server)
 - Let the OS pick an ephemeral port
 - Client should initiate TCP connection with server ("127.0.0.1", server port)

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Two Configuration sowcoder

- One client at a time (14 marks 70% of the assignment marks)
 - At any given time only one client will interact with the server

 - Simple sequential interaction between client and server.
 Should not require shuging Project Exam Help
 - Multiple clients can connect sequentially i.e., one client connects, executes some commands, quits, secondiquent connects exequite commands, quits, etc.
 - You will need to define various data structures to maintain state of the message You must manage several files

 You must manage several files
 You must manage several files
 You must manage several files
 - - one for each thread and any specific files uploaded by users
 - You must design your own application layer protocol
 - This includes the syntax/semantics of the messages exchanged between the client and server and the actions to be taken upon receiving each message
 - Non-CSE Students may chose to only implement functionality for this configuration
 - MUST request approval check spec for details

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Two Configuration sowcoder

- Concurrent multiple clients (6 marks 30% of the assignment marks)
 - Client program should only require minor changes
 - Server program must interact with multiple clients
 - · We recommend Salgin ment Project Exam Help
 - Main thread should listen for new connections from clients
 - A new thread should hettpred/tomanage interaction with each client
 - The interactions with an individual client should still be sequential as in the first configuration
 - However, the message Add state Chart past 600 lettple clients
 - Client A adds a new message to a thread. Following this, when Client B reads the thread, client A's message should be viewable
 - You may assume that each interaction with a client is "atomic"
 - Client A initiates an interaction to add a new message to a thread. While the server is processing this interaction, it cannot be interrupted by a command from another client (B). Client B's command will be acted upon after the command from client A is processed
 - You must be particularly careful about managing multiple threads and how they access the shared state (data structures, files, etc.) for the message board

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User Authorntication bowcoder

- A credentials file will be available in the server working directory (example is on the assignment page) ct Exam Help
- The client will first authenticate the user
 - Ask user to enter usehttps://powcoder.com
 - If username matches with one of the entries in the credentials file, the user is requested to enter the dats we Chat powcoder
 - If password matches, authentication successful
 - If password doesn't match, the user is asked to enter username again
 - If username does not match it is assumed this is a new user and user is asked to enter a new password
 - User is authenticated and a new entry is created in the credentials file

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Discussional Forecattions

- 11 specific commands
- User is prompted to igntend the long to be used in the content of the content o
- Basic error checking for syntax, appropriate arguments, etc. should be implemented https://powcoder.com
 - NOTE: We are more interested in observing if you have implemented the "normal" functionality, so our tests for error checking will be limited and won't include bizarre edge cases

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Commanded WeChat powcoder

- CRT Create thread
 - CRT threadtitle
 - Create a new thread prepresented as a text file (thread title), update state information about active threads and thread creators
- MSG Post message https://powcoder.com
 - MSG thread message
 - Add message to the thread we cate the thread file (message number, username, message)
- DLT Delete message
 - DLT thread messagenumber
 - A message can only be deleted by the original creator (error if condition not met)
 - Delete message update the thread file (remove the message and update message numbers if required)

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Commanded WeChat powcoder

- EDT Edit message

 - EDT threadtitle messagenumber message A message can only be dited by the original creator (error it condition not met)
 - Edit the thread update the thread file (only update message)

https://powcoder.com

- LST List threads
 - LST

- List all active threads
- Read data structure that stores this information and send it to client
- RDT Read thread
 - RDT threadtitle
 - · Display all messages contained in thread
 - Read the corresponding thread file and send relevant information to client

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- UPD Upload file
 - UPD threadtitle filename
 - Create filename Assignment Preofer to Manual Hielman received from client
 - Update thread file with information about file (username uploaded filename) https://powcoder.com
- DWN Download file
 - DWN threadtitle Adde Was Chat powcoder
 - Create filename in client working directory and store all file data received from server
- RMV Remove thread
 - RMV threadtitle
 - A thread can only be removed by the original creator (error if condition not met)
 - Remove all state associated with the thread (thread file, uploaded files)

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Commandal WeChat powcoder

- XIT Exit
 - XIT Assignment Project Exam Help
 - User quits
 - Update state about aftityps: 5/150wcoder.com
- SHT Shutdown Add WeChat powcoder
 - SHT adminpassword
 - Server shutdowns all state maintained is removed, all active clients are informed

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How to stantvand appograss

- Focus on first configuration
- Get the client and server to setup a TCP connection
 Implement authentication gnment Project Exam Help
- Implement one command, test it thoroughly, move to the next
- Suggest the following orde Min Sixt, PSTYWSGC COMPLET, UPD, DWN, RMV, SHT
- Once all individual commands are done and tested, then make sure you test extensive interaction with a single client (the principal commands)
- Next progress to second configuration multi-threading
- STRONGLY SUGGEST TO DEVELOP YOUR IMPLEMENTATION IN VLAB ENVIRONMENT (NOT ON YOUR NATIVE MACHINE)
- Added benefit CSE accounts are backed up

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Resourcesdd WeChat powcoder

- Many program snippets are on the web page
 - Including multi-Ahreading code Pippetet Exam Help
- Your socket programming experience in Labs 2 and 3 will be useful
- Repository of resources is here owcoder.com

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Testing Add WeChat powcoder

- Test, Test, Test
- Server and client(s) executing on same machine but different working directories Assignment Project Exam Help
- Emphasis on correct behaviour https://powcoder.com Basic error checking
- MUST Test In VLAB environment
 If we cannot run your code, then we cannot award you any marks
- Your assignment will be MANUALLY marked by your tutors
- Client and server must display meaningful messages at the terminal
- Extensive examples are available at the end of the spec
- You are NOT required to use the exact same text

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Plagiaris And WeChat powcoder

- DO NOT DO IT
- If caught Assignment Project Exam Help
 - You will receive zero marks (and there may be further repercussions if this is not your first offence https://powcoder.com
 - Your name will be added to the school plagiarism register
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Seeking Med WeChat powcoder

- Assignment specific consults (for all 3 programming languages) from Weeks 7-10 • Schedule to be announced in a few days
- Course message foruhttps://powcoder.com
 - Read posts from other students before posting your question
- Read the spec very often your answer will be in there