

## Application-Layer Protocol

### Specifications

- Create Connections for each ftp session
  - ◆ Control Channel
    - Last throughout ftp session
    - Used for all transfer commands
    - Used for all status and error messages
    - Initial channel that client connects to server
  - ◆ Data Channel
    - Data transfer
    - Established and torn down every data transfer

### Functions Needed

- GET <file name>
  - ◆ Downloads File from server to the client
- PUT <file name>
  - ◆ Uploads file to the server from the client
- LS
  - ◆ Lists files on the server
- QUIT
  - ◆ Disconnect client from server and exits

### Client to Server

Once a connection has been established on the Control channel the Client is able to use the functions GET,PUT,LS and QUIT. These functions are used on the control channel but the data sent as a result uses Data Channel.

### Server to Client

Once a connection has been established on the Control channel and the Client sends a function command the Server will send Code:200 indicating that it is ready to receive or send data in which case the server will do so depending on the command that was used.

