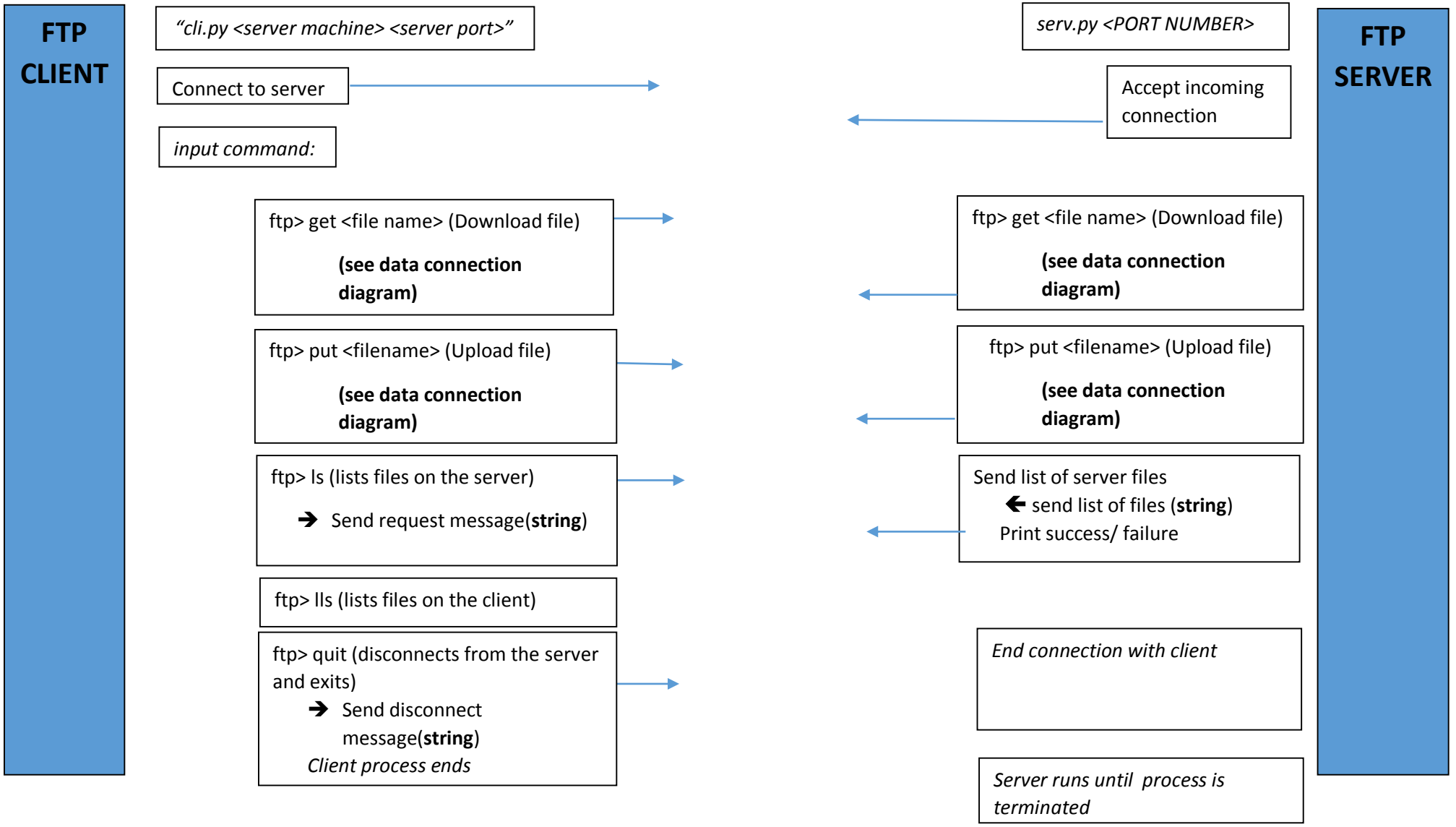
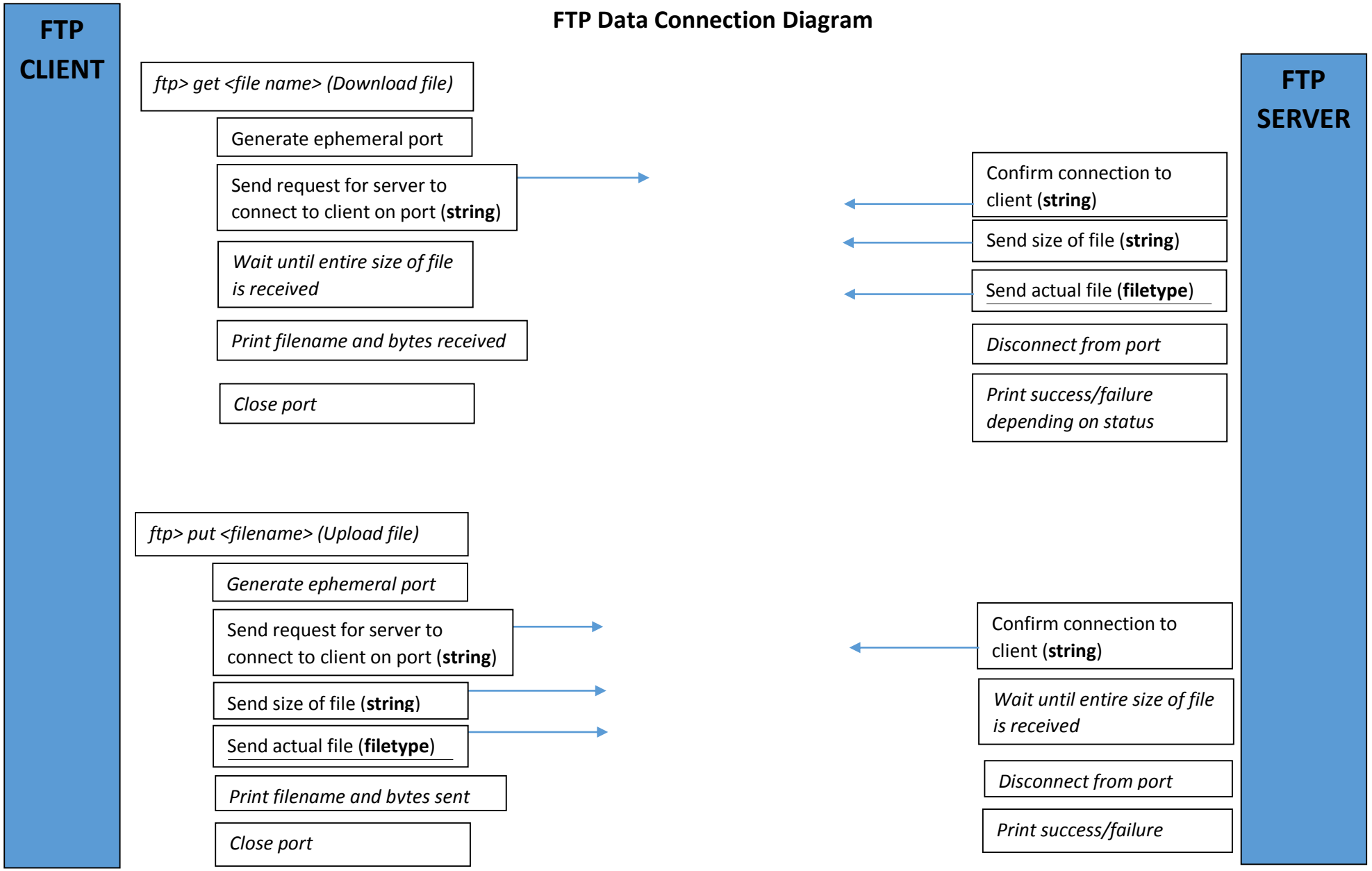
FTP Control Connection Diagram



FTP Data Connection Diagram



- Error checks will be put in place to make sure file paths to download/upload exist
- The server runs until it the process is killed
- The client and server will exchange messages through the control connection to avoid any possible inconsistencies involving commands
- The client creates a separate data connection using an ephemeral port for each file transfer and closes it once finished