

Protocol Prototype II

This is the protocol agreed upon by the groups 'IPv3' and 'Monkis404'.

Client Methods

- `list` : Asks for the list of files within the filesystem.
- `request` : Asks for an ASCII art found in a file specified as a parameter (e.g. `request whale-1.txt`).
- `submit` : Uploads a file to the server.
- `delete` : Deletes a file from the server.

Fork Methods

- `fetchList` : Gets the list of all files in storage. Returns that list to the client.
- `fetchFile` : Fetches a specific ASCII art in storage. This is the follow up to the `request` client method.
- `store` : Tells the server to store a file in storage. The fork will send this request once it has recieved the file's contents from the client. This is the follow up to the `submit` client method.
- `remove` : Tells the server to delete a file from storage. This is the follow up to the `delete` client method.
- `connect` : Establishes a connection with a server.
- `kill` : Ends the connection it has with a server.

Server Behavior

Client Method	Fork Method	Server Action
<code>list</code>	<code>fetchList</code>	Traverses the File System (use <code>traverse</code> method for FS) looking for available files.
<code>request</code>	<code>fetchFile</code>	Searches the file in the File System (use <code>search</code> method for FS), opens it (use <code>open</code> method for FS), and returns its contents (use <code>read</code> method for FS)
<code>submit</code>	<code>store</code>	Receives the file's name and contents, creates a file with the correct name (use <code>create</code> method for FS), and writes its contents (use <code>write</code> method for FS)
<code>delete</code>	<code>remove</code>	Receives the filename and deletes it from the File System (use <code>delete</code> method from FS)
-	<code>connect</code>	Receives a connection from the fork and accepts it. Creates a socket for this
-	<code>kill</code>	Closes the socket with the fork

Protocol usage

Client Method	Client Request	Server Response
<code>list</code>	<code>list Figures</code>	Available figures: <ul style="list-style-type: none">RabbitWhale V1SeahorseWhale V2Cat
<code>request</code>	<code>request Cat</code>	Looking for Cat figure... Cat was found! Returning the requested figure...
<code>submit</code>	<code>submit Penguin.txt</code>	Receiving Penguin.txt... Penguin was succesfully saved.
<code>delete</code>	<code>remove Whale V1</code>	Looking for Whale 1 figure... Whale 1 was found, proceeding with the removal... The removal was succesfully completed.

Credits

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