**Robert Airth**

**Silvestre Flores  
Kevin Tieu  
Jack Lambert  
Kierstyn Hughes  
James Schulz  
Stephen Zazueta  
  
Functionality Needed**  
1. Transfer local file to remote server

#1 SEND PACKET format  
 #1.1 Header has “1” for first field  
 #1.2 Header   
2. Transfer remote file to local computer

#2 RECEIVE PACKET format

3. Request List of Files on remote server

#3 INFO PACKET format

**File transfer application header values:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Flag | Payload Size | Payload Name Length | Payload Name | Payload Extension | Payload |
| UPLOAD [INT] = 1 | [INT] = payload.size() | [INT] =  payload.name.size() | [BYTES] =  payload.name() | [BYTES] =  payload.extension() | [BYTES] = byteStream(payload) |
| DOWNLOAD [INT] = 2 | [INT] = payload.size() | [INT] = payload.name.size() | [BYTES] = payload.name() | [BYTES] = payload.extension() | [BYTES] = byteStream(payload) |
| INFO  [INT] = 3 | payload.name() | payload.name() |  |  |  |
| MOVE  [INT] = 4 | payload.ext() | payload.ext() |  |  |  |
| LIST  [INT] = 5 |  |  |  |  |  |
| DELETE [INT] = 6 | 0 |  |  |  |  |

Send, receive, info  
  
  
***RESOURCE LINKS***  
  
<https://www.geeksforgeeks.org/file-transfer-protocol-ftp-in-application-layer/>