# Implementation Plan

| Step | Proposed Actions | Priority | Deadline | Result |
|---|---|---|---|---|
| **Main function selection** | Print a simple help message when entering the app | Low | Jul-14 | |
| | Check input parameters, decide which mode (server/client) the app would run. | High | Jul-11 | |
| **Server-side: Receive files and save to local directory** | Create a socket and wait for connection from the client side. Prompt error message and give suggestion | High | Jul-11 | |
| | Respond to client's connection request, print status update | High | Jul-11 | |
| | Receive 8-byte packet header, decide the number of files that will be transferred | Medium | Jul-13 | |
| | Loop to receive all files:<br>• Receive file name and size<br>• Receive file content<br>• Write received file to local directory | High | Jul-12 | |
| | Print status update | Low | Jul-15 | |
| **Client-side: Send files to the target computer** | Get the IP address of the target computer:<br>• Check the input parameter<br>• Get IP address from the input parameter<br>• Get IP address from "send4me.ini" configuration file | High | Jul-12 | |
| | Get the list of the files to be sent:<br>• Check the input parameter<br>• Get list of file name from the input parameters<br>• Get list of file name from the local directory | Medium | Jul-13 | |
| | Create a socket and connect to the target IP | High | Jul-11 | |
| | Send 8-byte packet header, specify the number of files that will be sent | Medium | Jul-13 | |
| | Loop to send all files:<br>• Get the size of the file to be sent<br>• Send file name and size in a 64-byte header<br>• Send the file content | High | Jul-12 | |
| | Print status update | Low | Jul-15 | |
| | Save the IP address in the configuration file | Low | Jul-15 | |
| **Shell script to install and run the app** | Check if Python is installed<br>Check if required modules are installed<br>Run this Python program with given parameters | Low | Jul16 | |