



PHOTONIC TRANSFER

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Project Team members

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Introduction to the Project

- Main Goal/Objective of developing the software – write 1-2 lines
- To transfer Files between different os through network.
- To replace usage of slow portable devices with high-speed direct Transfer.
- Eliminating need of mediator.

Actors/End-users of the Software

- PC users
- Phone users.
- Non App users – pc.
- Non app user – phone.
- Internet users.

Module-wise functionality

- Establishing connection
- Finding other app users.
- Connecting to the selected user.
- Transferring files through wifi or lan cable
- Transferring selected files from both sides
- Making the connection lossless.
- Transferring files without client
- Transfer files to pc or phones that do not have the app.

Module-wise functionality

- Transfer files through internet.
- Transfer files through internet when users are far away.
- Encryption and compression
- User can decide to encrypt their data before sending so that tools like wire-sharp cannot intercept files.
- User can also compress to send large files.
- User can also select both options for sending files.

File Dictionary

file name: TransferHistory.dat

Sr. No.	Column Name	Data Type and Size	Column Description
1	Shah1 Checksum	String	File unique identifier
2	Filename	String	Filename
3	Timestamp	Date/time	Time of transfer

Tools and Technologies to be used to develop the Project

- Platform/OS: Windows 10
- IDE: netbeans
- Programming language: Java SE 8
- Front-end:
 - Swing/AWT/AnimationClass
- Back-end: file
- Hardware Requirements:

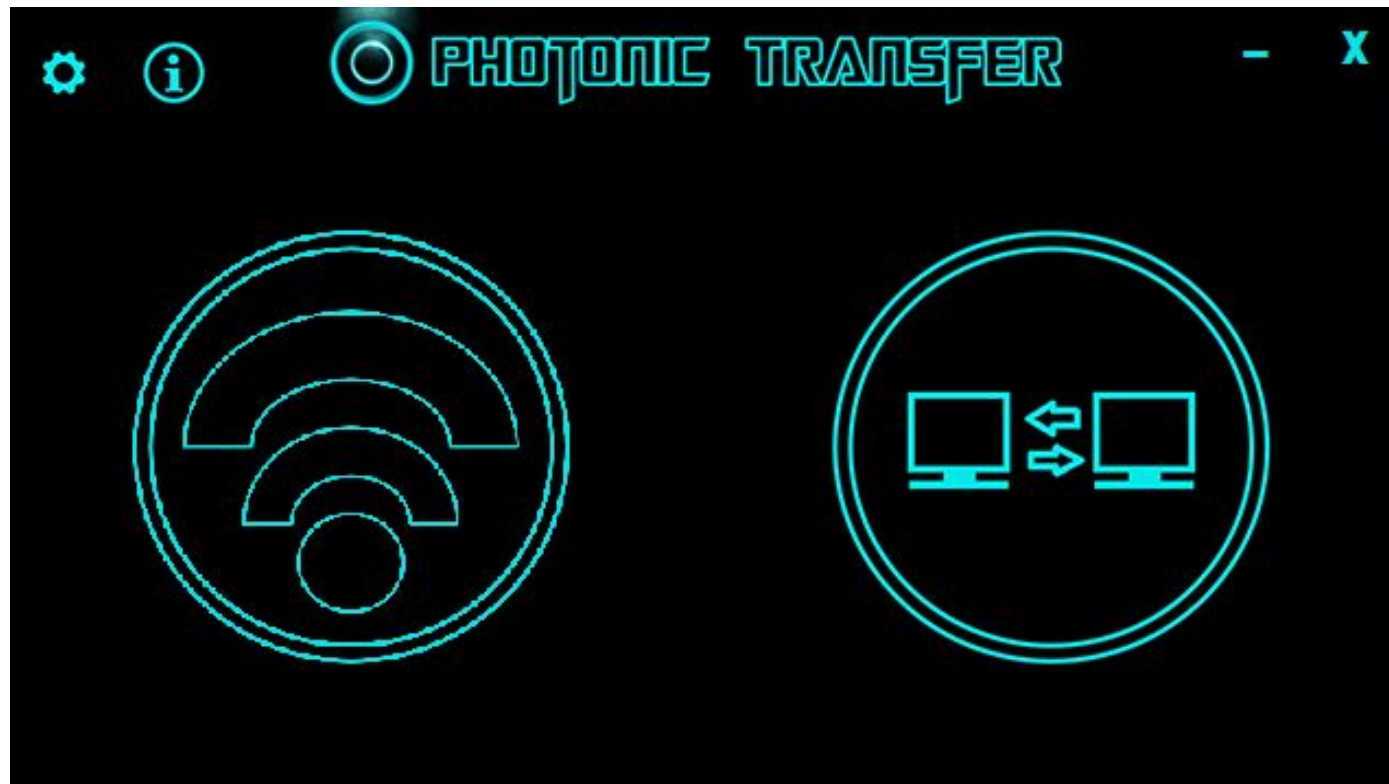
GUI Screen Designs

- 0.0 The Logo And Name of Our Project.(Splash Screen.)



Home Screen

- This screen will allow the user to find and connect or create his/her own server to share files.



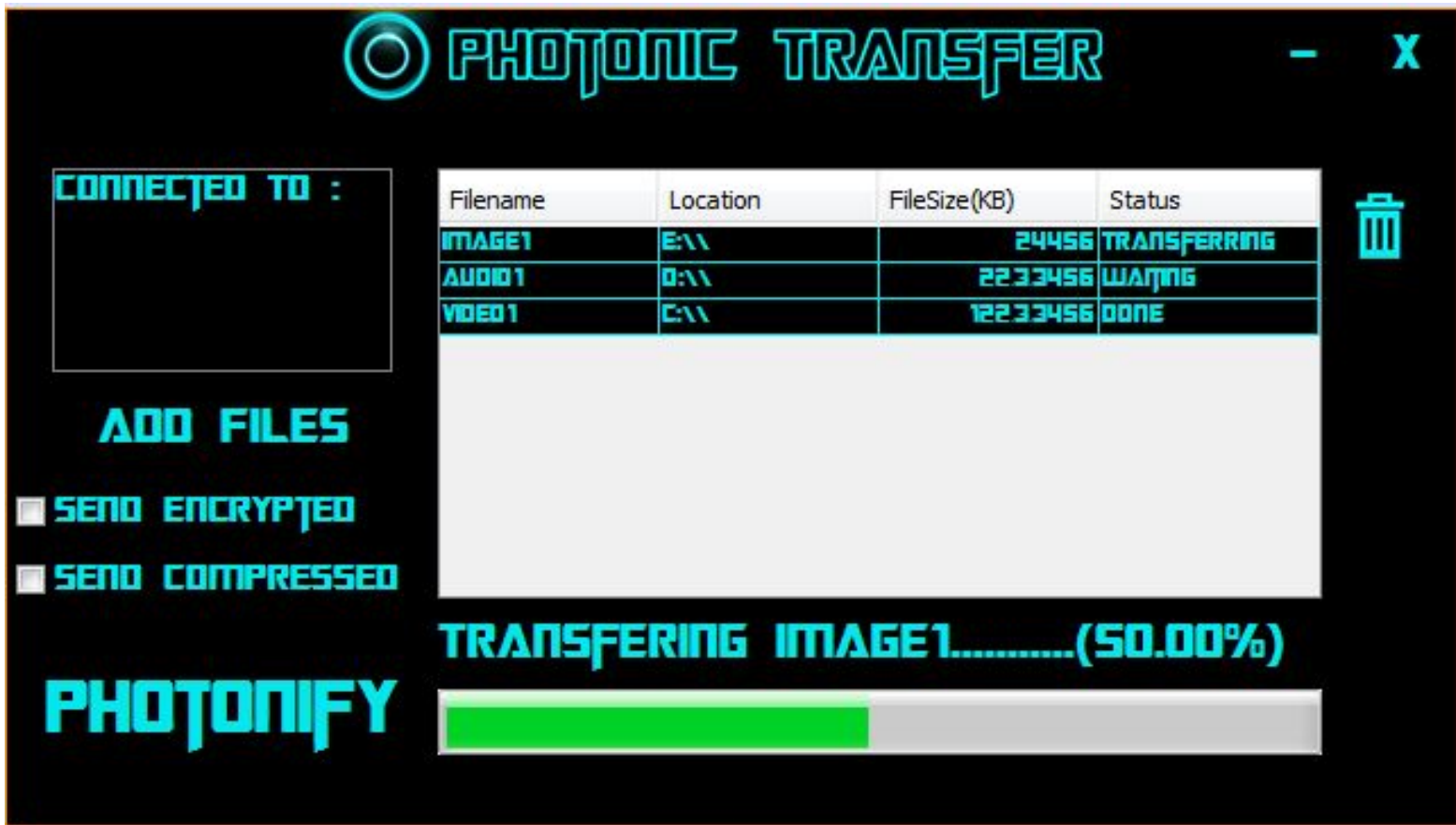
Waiting For Connection Screen

- This screen opens when User clicks on create server and now waits for the other device to join.(It's a .GIF image)



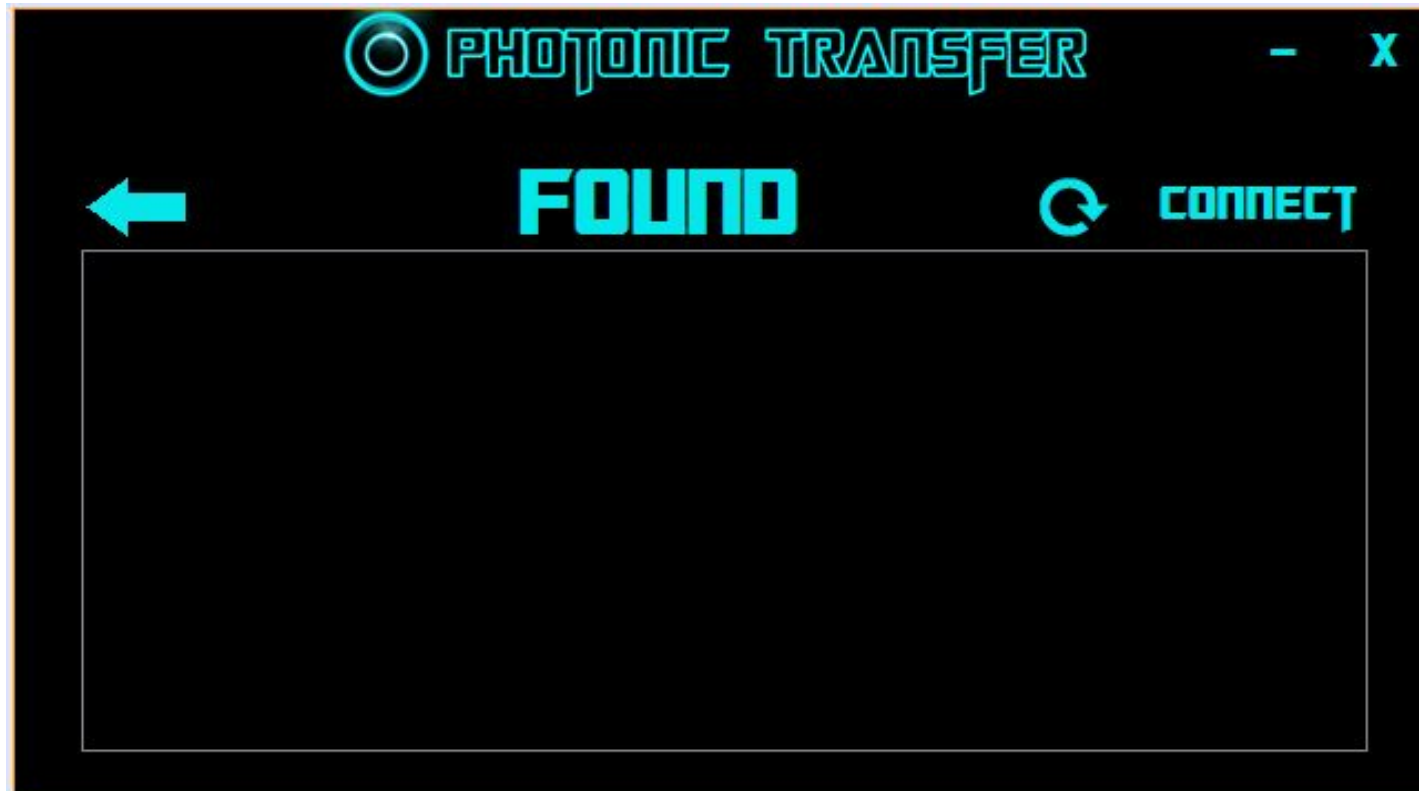
Send Files Screen

- From This screen the user will select files to send and also make his file send in encrypted or compressed form, with the transfer status in Percentage, and also which file is sent.



Found Server Screen

- This screen shows the list of all those on the current server connection, who have created their Photonic Server (Created Server from our app). User can choose which Server to connect from the list.



Settings Screen

- This Screen opens when settings logo is clicked from home screen. From here the user can set password for created networks and change the default location for saving the received files.



Transfer History Screen

- This screen shows a list of files transferred and clicking on any would show its details in the table given below.



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← TRANSFER HISTORY →

IMAGE1
AUDIO 1
VIDEO 1

Sender	Receiver	Filename	Location	FileSize(KB)
YOU	UMANG-PC	IMAGE1	E:\\	22456