

# PEER-TO-PEER FILE SHARING SYSTEM

*Akash Kumar Singh (16807068)*

*Yogendra Singh (160829)*

*Adhip Garg (160042)*

**GOAL:** The project aims to develop an application through which any user running this application on a linux machine can share files with other linux users with the same application installed. Users can get a list of all the files and directories (music files, pictures, etc.) of the connected users that they are willing to share.

**IMPLEMENTATION:** Due to lack of knowledge about the subject of networking we have taken some help from the internet in order to get an idea on how we can implement it.

For now we have divided the project into coarse phases or milestones that we would like to achieve to have a proper development of the project and to ensure robustness of each component of the system.

1. Discover the other linux systems around.
2. Enable the visibility of the files and directories the user want to share.
3. Get the lists of the files and directories of the other connected users.
4. Able to download files from the other user.
5. Adding extra functionalities and build a GUI around it.
6. Further optimisations.

**TIMELINE:** For now the timeline is very loose, in a sense that we don't have any idea of the skill set required to build something like this

1. Week 1: Develop the functionality of discovering the users around.
2. Week 2: Enable the visibility of the files and directories the user want to share.
3. Week 3: Add the functionality to get the lists of the files and directories of the other connected users.
4. Week 4: Enable the feature to actually download the shared files.
5. Week 5: Build GUI around it.
6. Week 6: Further improvement and optimisation.