Consider a web-based file storage and sharing system that allows its users to create folders, upload/download files, and share these with other users. A folder can contain any number of files and/or folders. Every user has a login and password. The user can share his/her files/folders with other users by changing file/folder permissions. Files/folders can be shared to all users or a selected subset of users. The users other than the owner cannot remove or rename files/folders however.

The system provides all the necessary functionality such as sign-up, or deleting or renaming a folder etc.

1. Give a use case diagram for the system. (10)
2. Give use case description for "Share File/Folder". Also provide descriptions of included use cases or extensions if any. (10)
3. Give a class diagram showing required attributes and functions. (20)