

SD All diagrams

- SD All diagrams
- Diagrams
 - Logical View
 - State Diagram
 - **TODO LOL**
 - Class Diagram
 - Development View
 - Component Diagram
 - Process View
 - Activity Diagram
 - Sequence Diagram
 - Physical View
- Traceable (Functional and non functional)
 - TODO??????

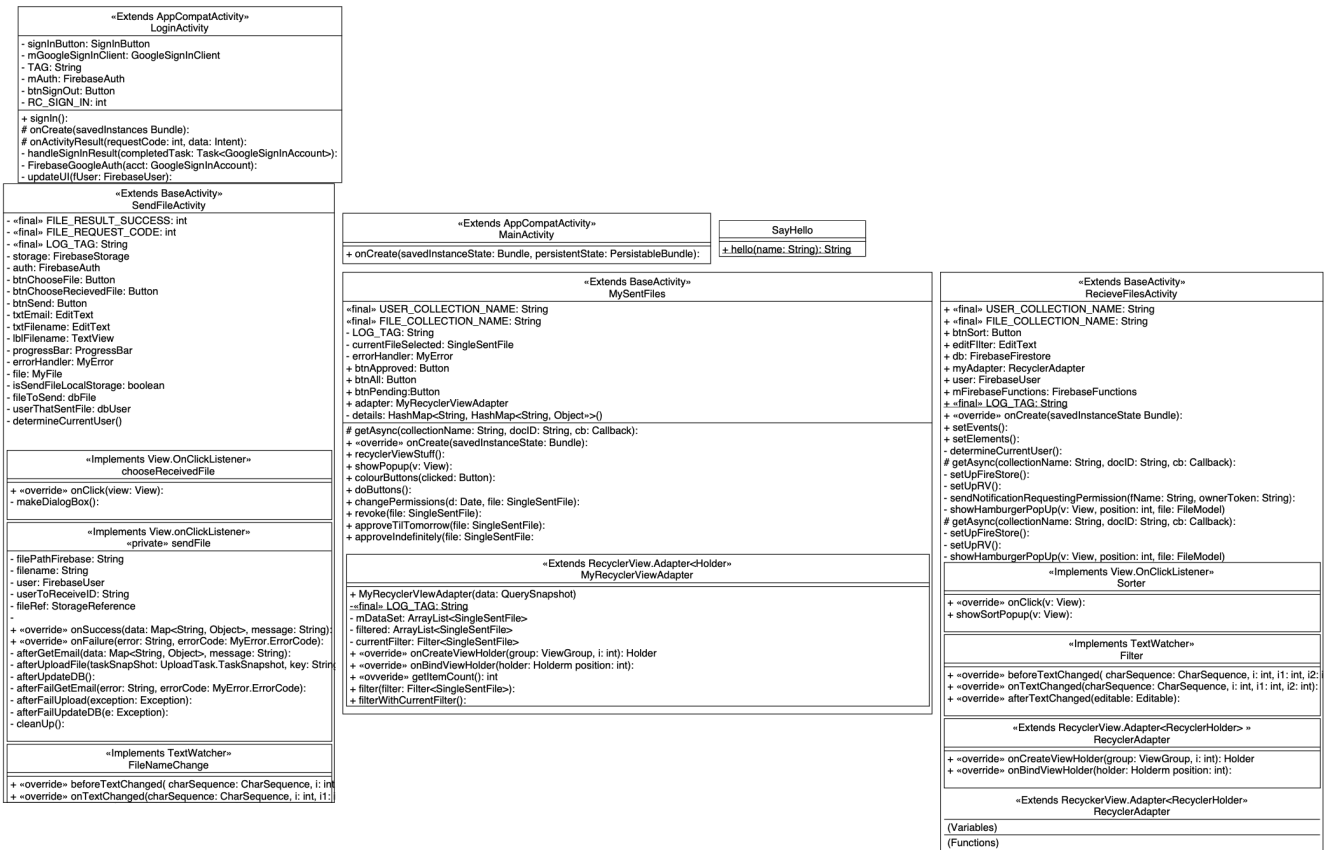
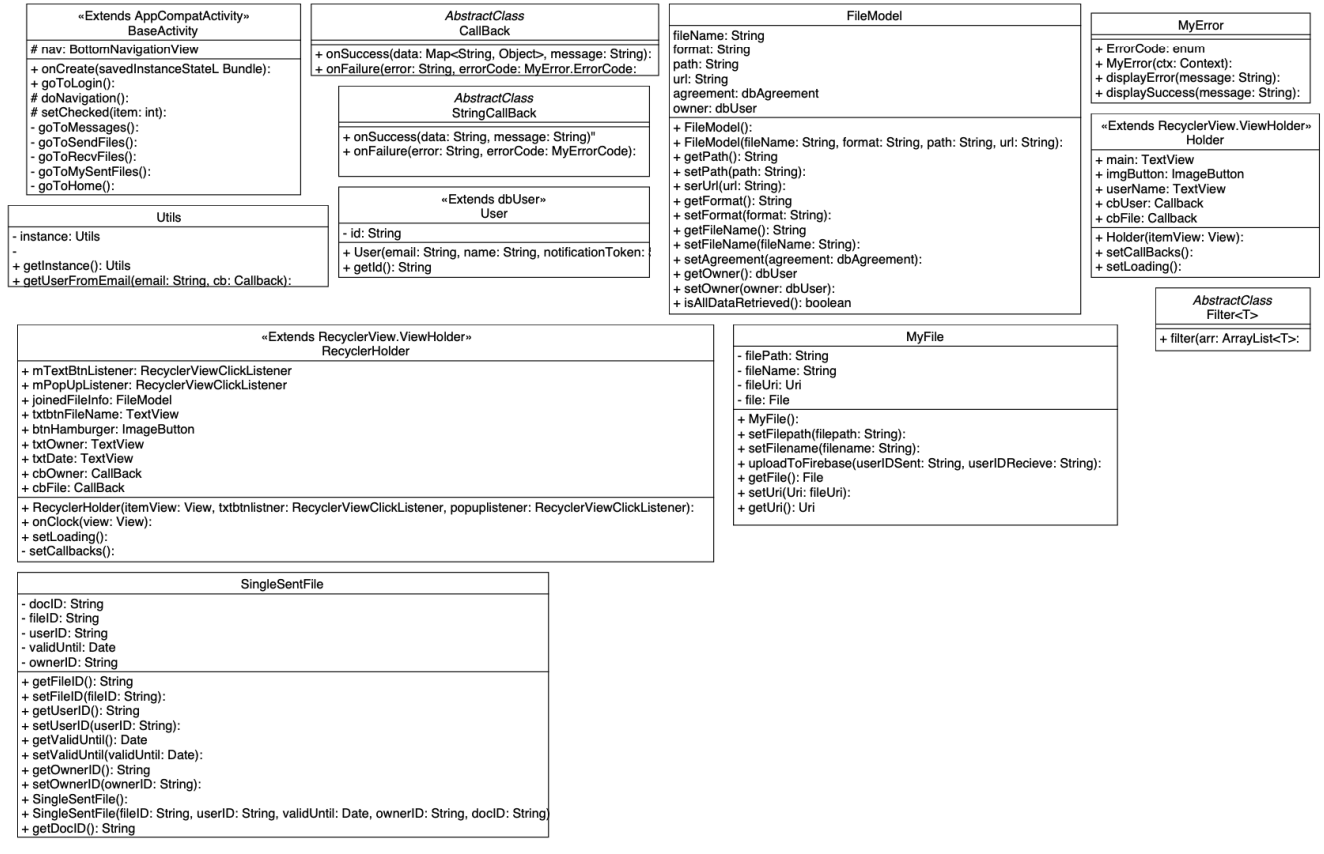
Diagrams

Logical View

State Diagram

TODO LOL

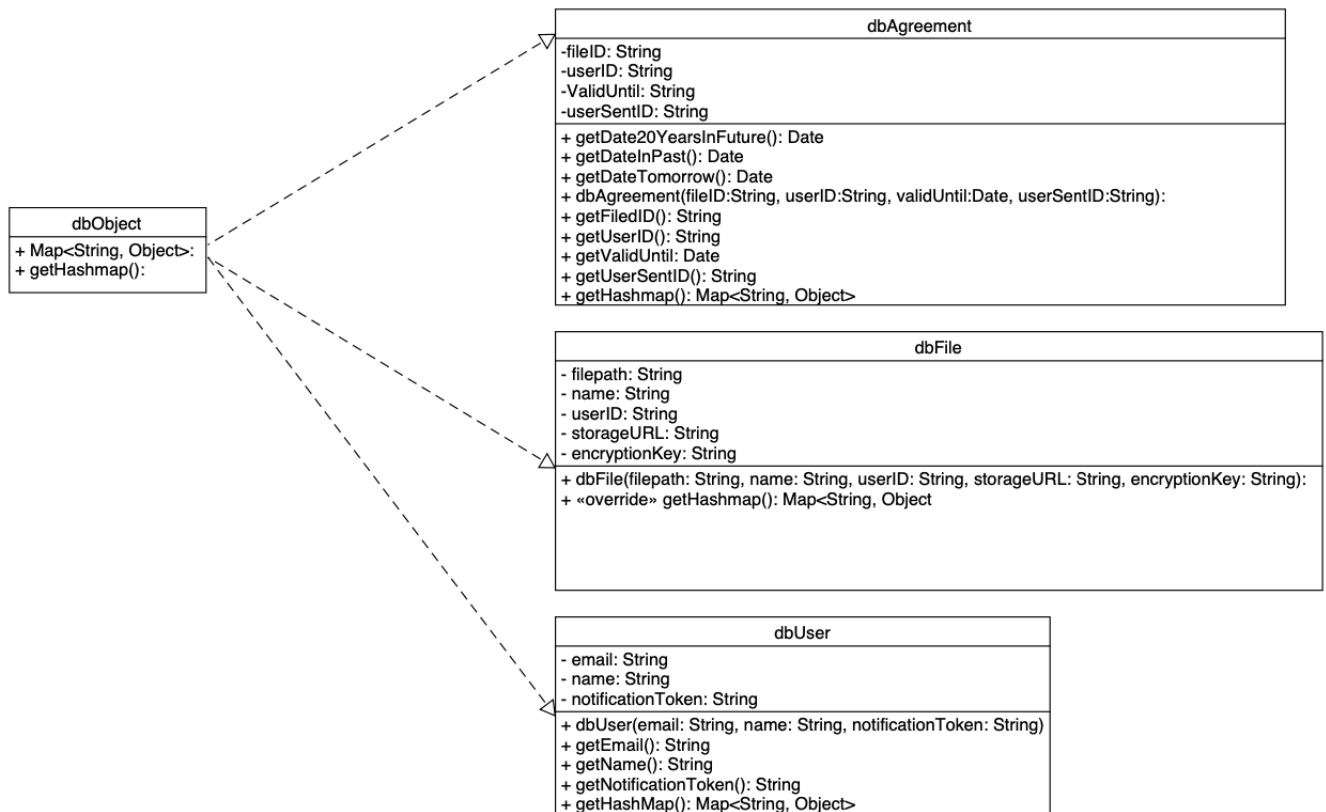
Class Diagram



AESEncryption
- secretKey: SecretKey
+ AESEncryption(length: int) + AESEncryption() + AESEncryption(key: String): + encrypt(stream: InputStream): InputStream + decrypt(stream: InputStream): InputStream + getKey(): String

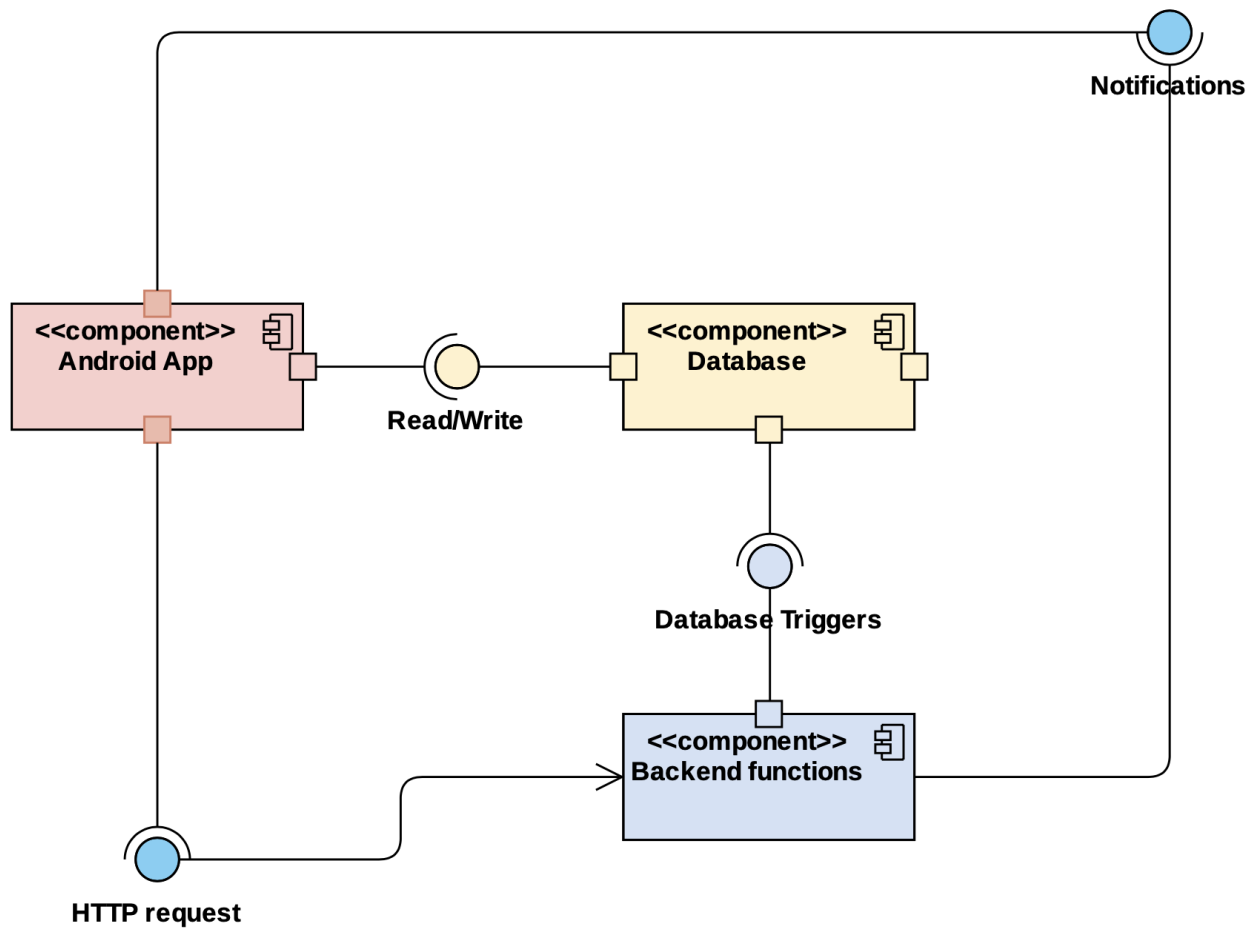
RSA
- privateKey: PrivateKey - publicKey: PublicKey
+ RSA(keylength: int): + RSA(): + RSA(privateKey: String, publicKey: String): + encrypt(stream: InputStream): InputStream + decrypt(encrypted: InputStream): InputStream + getPrivateKey(): String + getPublicKey(): String

«Extends FirebaseMessagingService» MyFirebaseMessagingService
- CHANNEL_ID: String - TAG: String - NOTF_ID: int
+ getToken(): + onNewToken(token: String): + onMessageReceived(remoteMessage: RemoteMessage): + onDeletedMessages(): + createNotificationChannel(): + displayNotification(title: String, body: String):



Development View

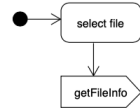
Component Diagram



Process View

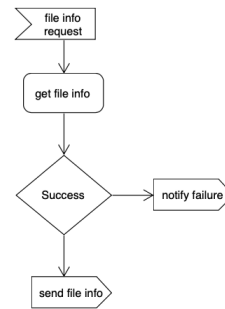
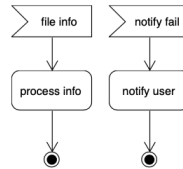
Activity Diagram

Note.. choose one of my received files to send



Note.. Assume that this also has the userID

Note.. Intentionally ended here
Since should go into: grant permission files
Also need to do choose user separately
Please feel free to edit this one



requested my public files.pdf

Note..



Note.. should be able to see since files need keys to decrypt so has to ask

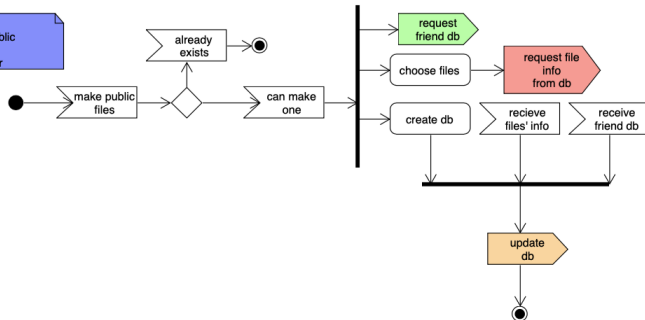


Note.. might need to do a check every x to try and get that info of a notify



make public files.pdf

Note.. make public files for a user

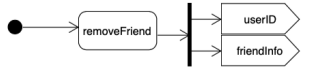


Note.. file info being:
filepath: String
name: String
userID: String
storageURL: String
encryptionKey: String

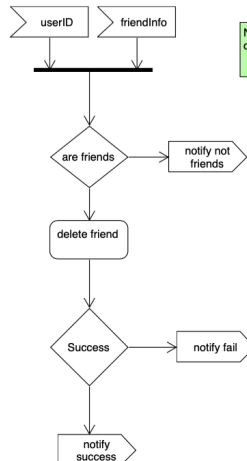
Note.. friendBool: boolean
userID: String
otherUserID: String

Note.. need to think about the permissions are they persistent so long as the file is on the db

Note..
remove friends



Note..
activity side



Note..
db side

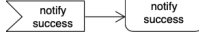
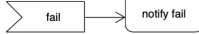
state

state

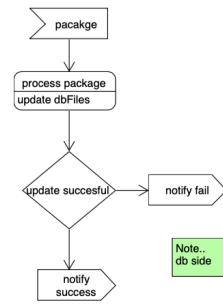
Note..
When uploading a file, upload
only the encrypted part



Note..
the package should just be
your userID, encryptedDoc and storageKey.
This should be after you have encrypted it
so you have done the necessary RSA/AES
Locally



Note..
user side

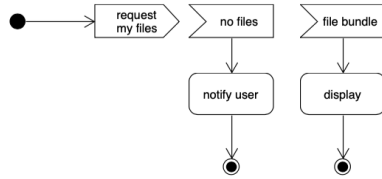


Note..
db side

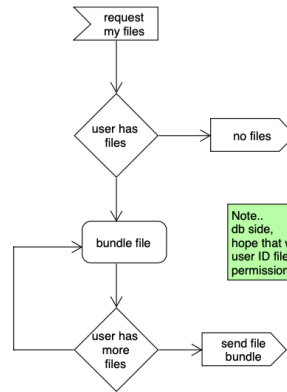
«Michael»
I combined this with the uploading of the encryption key
Please if you feel they should be separated keep them
Separated. You will know what is better to do,
I just assume that it is possible to send both at once.

view all my sent files and include usernames of recipients.pdf

Note..
View all of my files that have been sent to others - including usernames of recipients



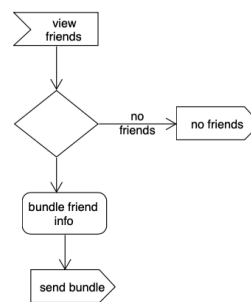
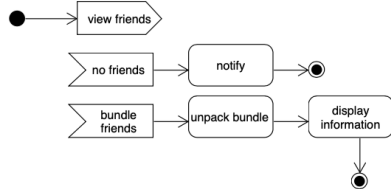
Note..
user side



Note..
db side,
hope that we just go through
user ID files for those with
permissions

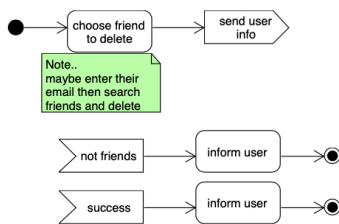
view all my friends.pdf

Note..
view all my friends

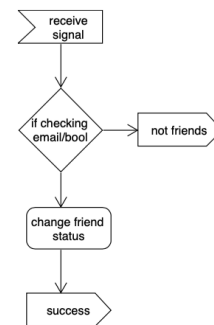


delete friends.pdf

Note..
delete a friend

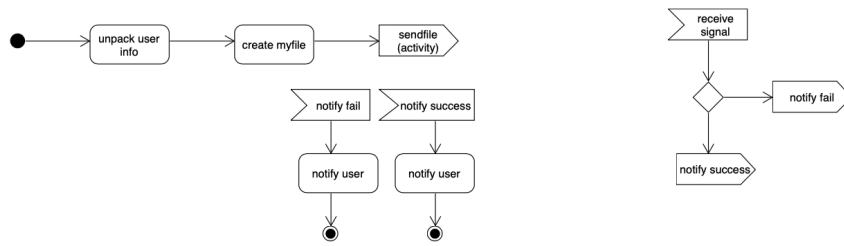


Note..
maybe enter their
email then search
friends and delete



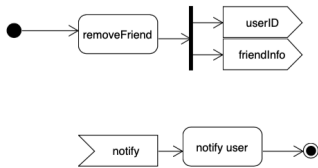
send it (after choosing user).pdf

Note..
send it(after choosing user)

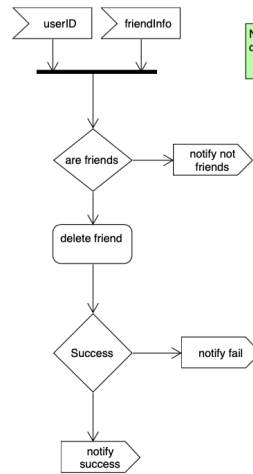


add friends.pdf

Note..
remove friends



Note..
activity side

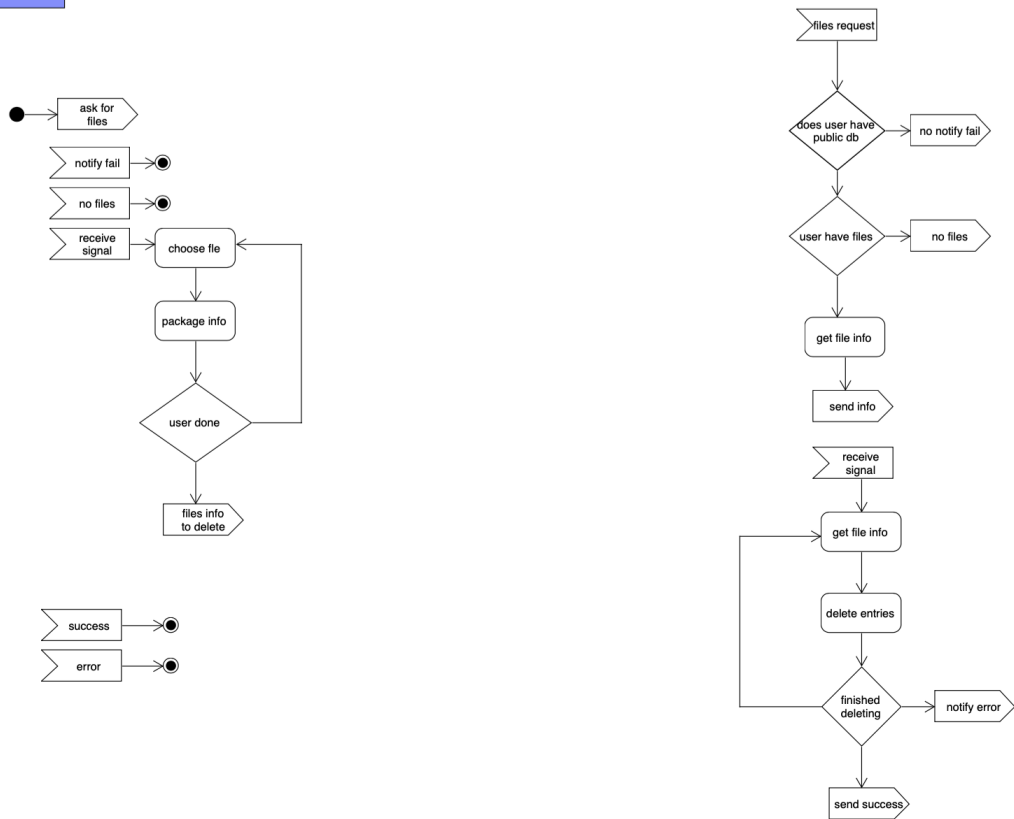


Note..
db side

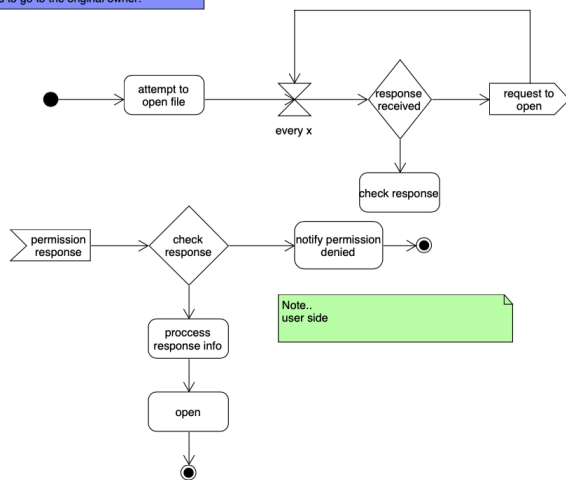
state

state

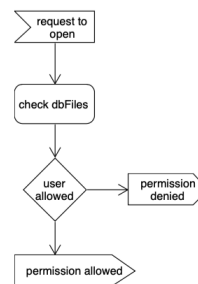
Note..



Note..
When opening a file, the permission request needs to go to the original owner.

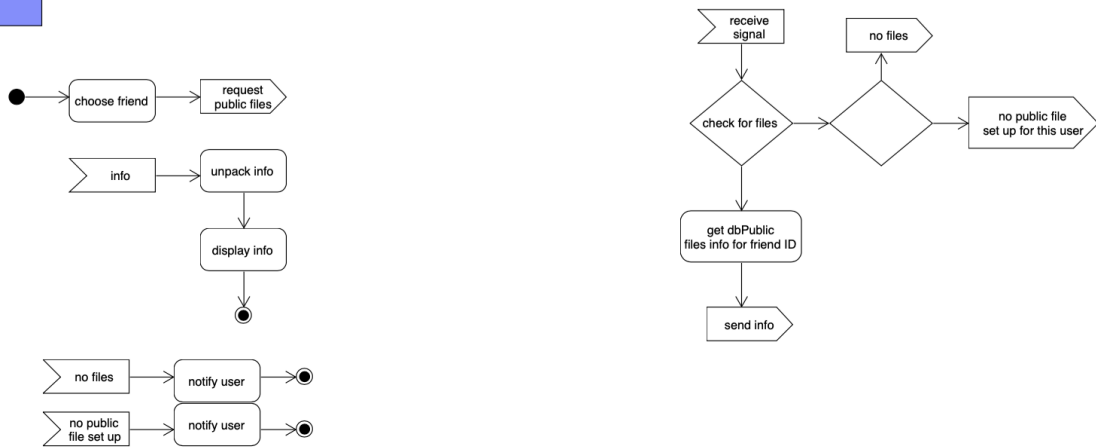
Note..
user side

state



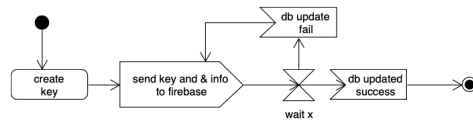
Note..
do side
check to see if user allowed
(valid date and permissions)

Note...
view one friend and th



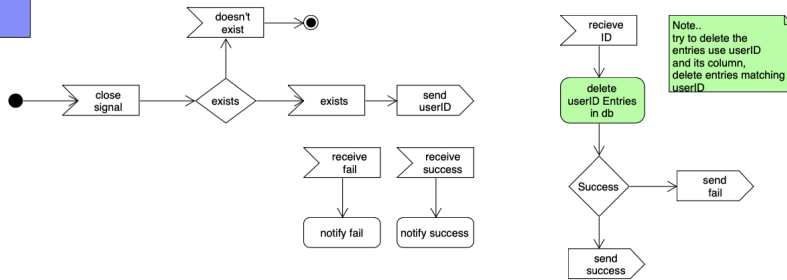
store keys.pdf

Note..
store keys



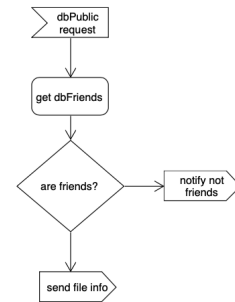
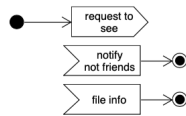
close public files.pdf

Note..
close public files



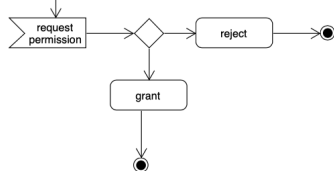
any friend should be able to see my public files.pdf

Note..

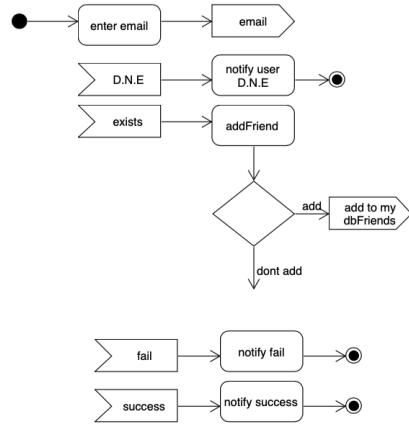


grant permission files.pdf

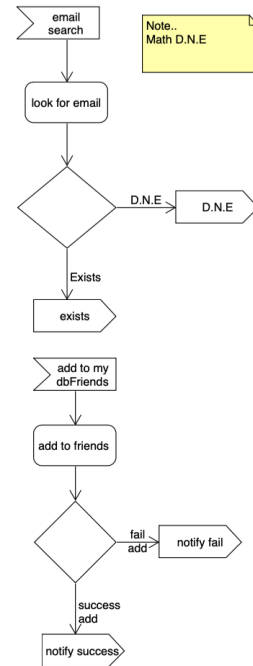
Note..
grant permission files



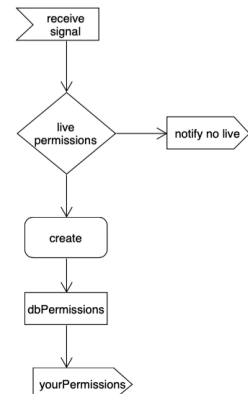
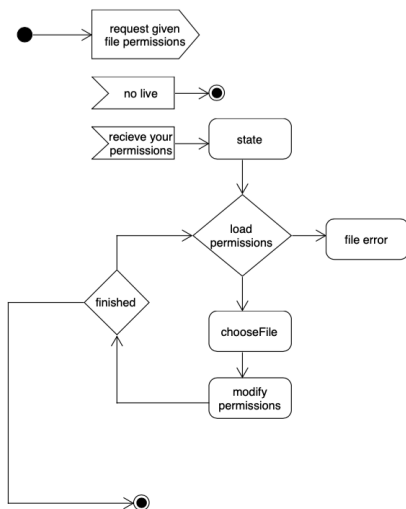
Note.. assuming you search then add friend



Note.. Math D.N.E



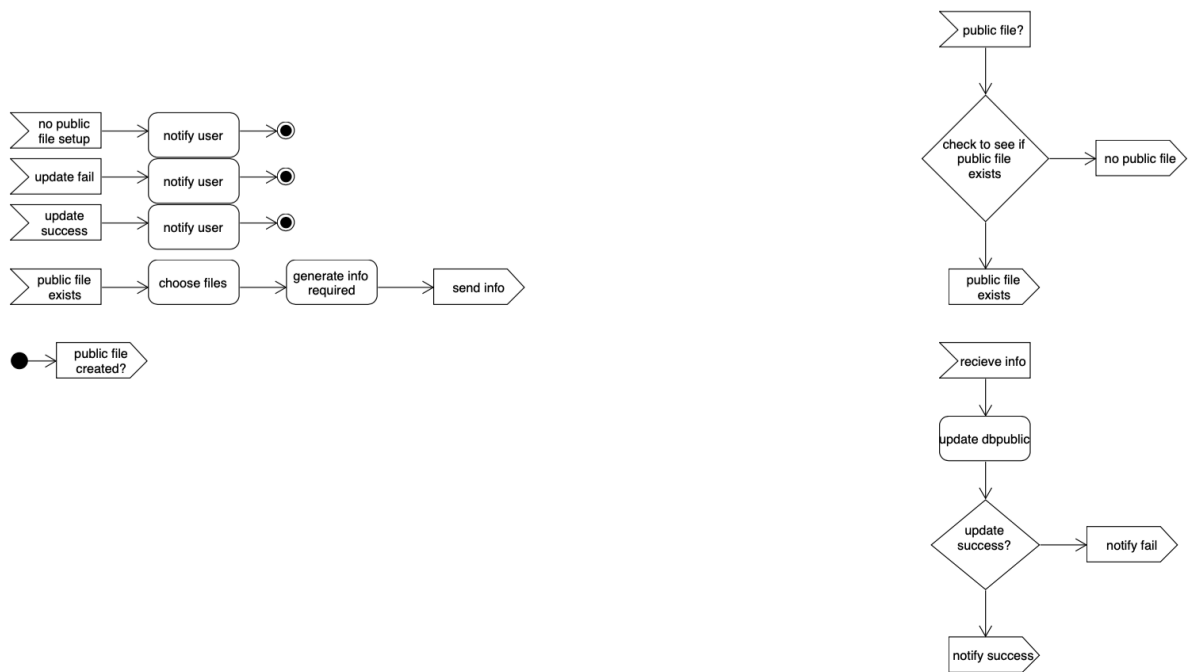
Note.. Be able to give/revoke permission as if I sent the file



Note.. Assuming that we want to send back some form of files and their permissions so that you can tweak them. object dbPermissions most likely unnecessary as could be packaged differently

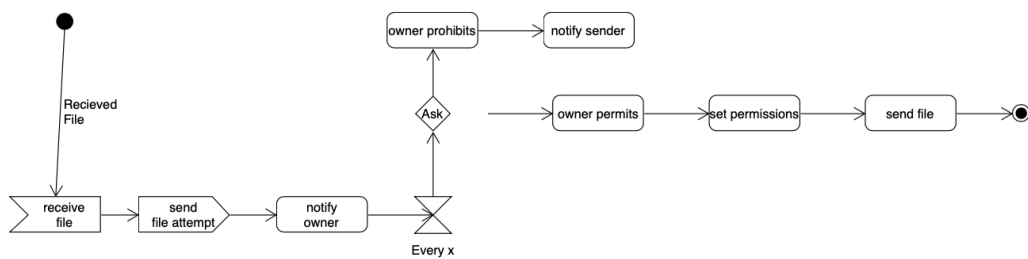
add files to my public shared space.pdf

Note..

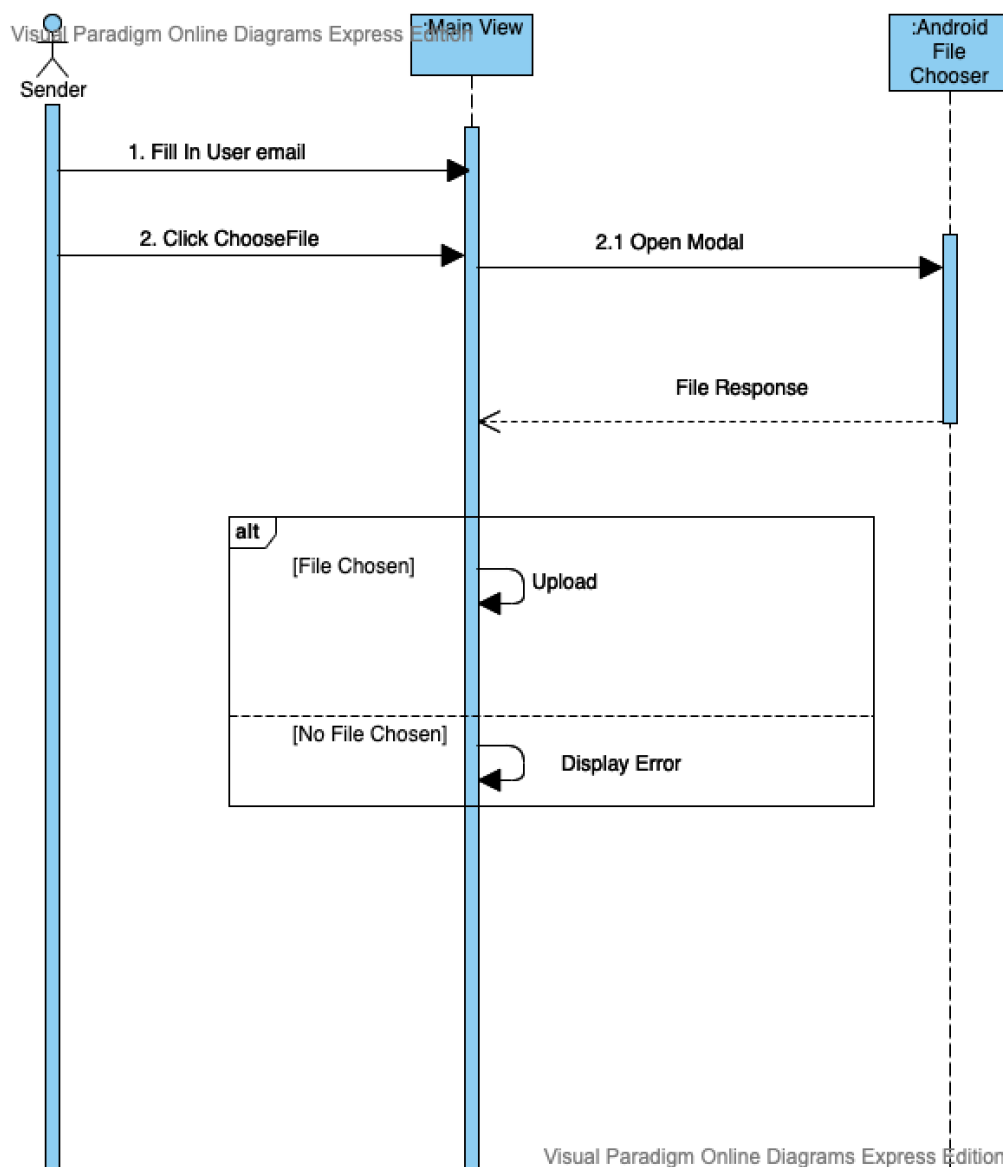


send recieved file.pdf

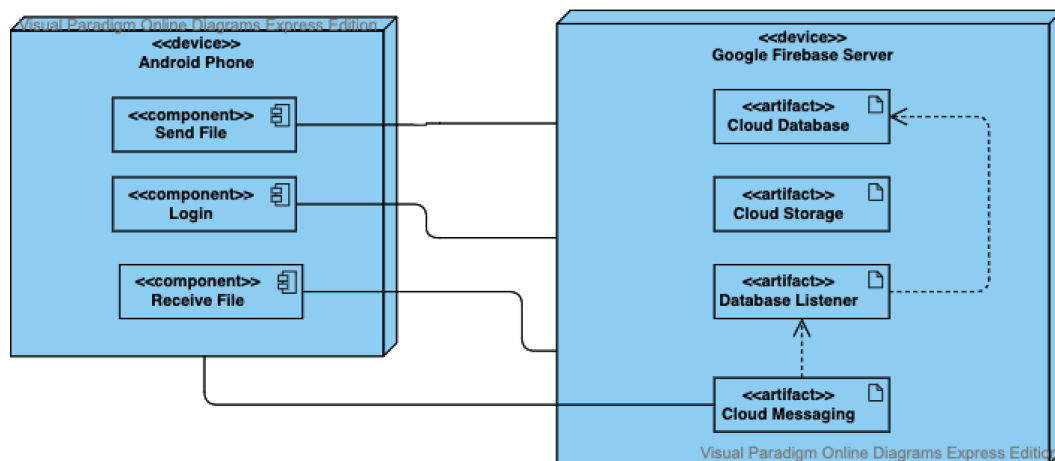
Note..
Send Received
Files



Sequence Diagram



Physical View



Traceable (Functional and non functional)

TODO??????