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CSC 520
Capstone Outline

webb

PROJECT DESCRIPTION: An iOS data management app with a focus on security for the user. The user will have the ability to import and export files, documents, and photos securely by enabling password locks on their data. Account creation has enhanced security specifications, making anyones account more secure with the help of two way authentication through a users email, and the use of security questions with case sensitive responses.

TARGET USERS: Anyone whom would like to store their information securely, while knowing they are the only ones viewing and accessing said information. Managing data with security and confidence.

SECURITY FEATURES: Password requirements for a new users account will have a minimum requirement of twelve characters, requiring at least one capital letter, one number and one special character. The user will have the ability to set password locks on all their data once imported. If a file/document/photo is imported, the user can lock the contents with a custom set password. If a user cannot open said file due to not knowing password, the only option is to delete the file. The purpose of this is for the user to understand that they can secure their files as long as they know their credentials. If a user wants to export a file that is password protected, the password protection must be removed on the respective file before doing so. The app will also have two factor authenticator with every account signed up. Whenever a new account is made, they will verify their email address with a code that is sent to them, which they must enter into the app within sixty seconds. The user will also have the ability to setup security questions with their answers being case sensitive. The purpose of these security questions is to help if a user forgot their password. When a new account is created, they will have the ability to create three to six security questions to help secure the account and give them the option to have more security questions than just three, for future verification. I would also, hopefully, like to include integration with Face ID and Touch ID since the app is iOS based. Face ID and Touch ID integration could be used to log into the app, but not used for opening password secured files. The files are originally password secured, and would not be able to be unlocked via Face ID or Touch ID. The app will also feature History, that will track everything that happens within the app and related to the account. The purpose of the History feature is for the user to be able see what changes are made during log in, as well as if the account has had an attempted log ins.

DATA MANAGEMENT: For the sake of a challenge, the users information that is imported into the app will be stored not locally on the device, but rather in the cloud. One device can have a user log in, manage their data, and log out. When another user logs in, the data within the app will be respective to the account logged in. Multiple log ins will be present for the demonstration of the app, showcasing that the users data is secured off of the device, and in the cloud.