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Capstone 520
**webb** Requirement Collection and Analysis

**Stakeholder Identification:** Users whom operate the system/app will be users whom create an account for the app, and use it for its function of data management, and an administrator user who can login and check server status's for the data server.

**Requirement Lists for Requirement Specifications:** The web app's measurable goals -
• User can create an account, log in, reset password, and logout. Creating an account prompts respective questions regarding security of account.
• Import/Export files including photos and documents, create and delete folders, and create password locks on files and folders.
• System should prompt a user, whom may be trying to export a file that may have a security lock on it, that the security lock must be removed before exporting.
• System should have a feature that saves a history of what happens within the account, allowing a user to see what they might have imported/exported, as well as seeing when they might have locked something with a password, and if there account may have had an attempted log in from an unknown user.
• When a user creates a new account, or signs into their account from an unknown IP address, a two factor authentication system will be in place to help verify, through email, that the person logging in is the owner of the account.
• The user will have the option to create from three up to six security questions to help keep the account secure from anyone who may be attempting log in.
• System can allow log in, log out, create a new account, forgot password, and manage security preferences and account preferences once logged in, from a side menu that a user can access at any time while using the app.
• Incorporate Django Framework for more secure development of webb.

 **Use Cases Checklist:**

• Login Splash Screen
  • Log in screen will consist of two fields for email and password respective, above create account and forgot password links.
    • Log in is successful and user is entered into account.
    • Log in is not successful, prompting "Incorrect email or password, please try again".
      • In the rare case that an account has four unsuccessful log ins with a registered email, the account will be locked temporarily due to multiple failed attempts.
  • Create account
    • Enter email/password (minimum of twelve characters with one number, one capital letter, and one special character required.
      • Entered account credentials do not meet requirements, prompt user to try again.
      • Entered account credentials meet requirements.
        • Prompt user for two factor code sent to entered email.
          • User enters code correctly and continues.
            • System prompts user to create three security questions and has the option to add up to another three security questions, for a total of six.
          • User enters code incorrectly, and either tries again or requests a new code.
          • User doesn't enter code in time, new code is resent and a user must enter within sixty seconds.
  • Forgot Password
    • Prompt user to enter email address for account.

- User enters email properly, and is sent a six digit verification code to enter within the app to allow for new password creation.
  - Code entered correctly, prompts user for new password to be entered twice with same requirements as log in.
  - Code entered incorrectly, prompt user to try again, or resend a code to email with maximum attempts being three.
- Email entered by user that does not have an account associated with it will receive a prompt stating the enter email is not one linked with an account, and prompt to try again.
- Once Logged in
  - Import Files
    - Successfully imported file.
  - Export Files
    - Successfully exported file
    - Attempt to export file that is encrypted by password, "Please remove password encryption before exporting.", prompt user to remove password encryption by asking for password to be entered.
  - Check History
    - Shows user what history has been accounted for on account.
  - Set password encryption on either files or folders.
    - Ability to set password encryption on individual files and folders containing multiple files.
  - Moving files to and from folders and general viewer.
    - Successful prompts for moving files.
  - Top left of system is systems menu, showing "Import", "Export", "History", and "Preferences"
  - If files that are encrypted need to be moved to and from folders or out of folders, the password encryption set on the file or folder needs to be entered before continuing.
  - Within preferences will be account settings, like "change password", "edit security questions", "Change email" and possibly more.
    - Changing email; for this to be successful two factor authentication will be setup again with new email.
    - Changing passwords will require the user to answer the security questions again, ensuring the user requesting password reset is the owner of the account.
    - Editing security questions will require the user to reenter their password.
- Exit app.