BEGIN WishingWell:

SET atttatchment-dir to ‘wishlists’

SET emailAddr to ‘’”

SET appPassword to ‘’”

SET emailPassword to ‘’”

SET serverPassword to “serverpassword”

WHILE user not logged in

IF user clicks sign up THEN

GET fullname, password,emailAddr from user input fields

signUp(fullname,password,email)

ENDIF

IF user clicks sign in THEN

GET email\_input,password\_input from user input fields

loginToApp(email\_input, password\_input)

ENDIF

END WHILE

WHILE user logged in and program is not closed

IF user clicks reload wishlists THEN

reload\_wishlists

END IF

IF user clicks reload shared wishlists THEN

reload\_shared\_wishlists

END IF

IF user clicks share wishlist THEN

DISPLAY prompt for the email the user wishes to share with

GET the data inputted into the prompt

GET the name of the wishlist

SET to\_addr to the data inputted into the prompt

SET wishlist\_filename to the name of the wishlist

share\_wishlist(to\_addr, wishlist\_filename)

END IF

IF user clicks save THEN

GET emailAddr

GET email\_password

GET the name of the wishlist

SET subject to ‘’

SET body to ‘’

SET user\_email to emailAddr

SET wishlist\_filename to the name of the wishlist

save(users\_email, email\_password, wishlist\_filename)

END IF

IF user clicks create new wishlist THEN

DISPLAY a prompt asking for the name of the new wishlist

GET the name of the new wishlist inputted into the prompt

SET name to the name of the new wishlist

createwishlist(name)

END IF

IF user clicks delete new wishlist THEN

SET name to the name of the wishlist the user clicked to delete

deletewishlist(name)

END IF

END WHILE

END WishingWell

BEGIN signUp(fullname, password, emailAddr)

Open “salt.csv” for input as f

Open “users.csv” for output as g

GET the salt from f.

SET hashed password to the hashed value of the salt appended to the password

Open “users.csv” for input and append as f

FOR line in f

IF the email field in the line is equal to emailAddr THEN

DISPLAY “This email already has an associated account”

RETURN False

ELSE

Write “users.csv” from fullname, hashed password and emailAddr

RETURN True

END IF

NEXT line

END signUp

BEGIN loginToApp(email\_input, password\_input)

GET emailAddr

GET appPassword

GET emailPassword

Open “salt.csv” for input as f

GET the salt from f

SET found to False

Open “users.csv” for input as f

FOR row in f

IF the email field in the row is equal to email\_input THEN

SET hashedinput to the hashed value of the salt appended to the password\_input

IF the password field of the row is equal to hashedinput THEN

SET emailAddr to email\_input

SET appPassword to hashedinput

ELSE

DISPLAY “incorrect password!!”

RETURN False

REPEAT

DISPLAY a prompt to ask the user for their email password

GET the data inputted into the prompt

SET emailPassword to the data inputted into the prompt

UNTIL the emailAddr and emailPassword successfully log into gmail OR until the user cancels the login attempt.

SET found to True

RETURN True

END IF

NEXT row

IF found is equal to False THEN

DISPLAY “This user has not signed up”

END IF

END loginToApp

BEGIN reload\_wishlists

GET emailAddr

GET serverPassword

Connect to the gmail server using the email “wishlists.server.gmail.com” , serverPassword and the server route 'imap.gmail.com'

Search the inbox of “wishlsits.server.gmail.com” for any emails from emailAddr

IF there are emails from emailAddr THEN

SET emails to the emails from emailAddr found in “wishlists.server@gmail.com”

FOR each email in emails

Download the attachment from the email (the wishlist) to the wishlist directory

NEXT email

END IF

END reload\_wishlists

BEGIN reload\_shared\_wishlists

GET emailAddr

GET emailPassword

Connect to the gmail server using the emailAddr , emailPassword and the server route 'imap.gmail.com'

Search the inbox of emailAddr for any emails from “wishlists.server@gmail.com”

IF there are emails from “wishlists.server@gmail.com” THEN

Download the attachment (the wishlist) to the wishlist directory

END IF

END reload\_shared\_wishlists

BEGIN share\_wishlist(to\_addr, wishlist\_filename)

GET The email address portion of the wishlist\_filename

SET sent\_from to the email address portion of the wishlist\_filename

Send an email from ‘wishlists.server@gmail.com’ to to\_addr with (wishlist\_filename plus “.csv” at the end of the filename) as an attatchment.

END share\_wishlist

BEGIN save(users\_email, email\_password, wishlist\_filename)

Send an email from the users email to ‘wishlists.server@gmail.com’ with (wishlist\_filename plus .”csv” at the end of the filename) as an attatchment

END save

BEGIN createwishlist(name)

GET attatchment-dir

Open name with “.csv” appended on the end for output in attatchment-dir

Write name with “.csv” appended on the end from “item(s)”

Close name with “.csv” appended on the end

END createwishlist

BEGIN deletewishlist(name)

Delete file name with “.csv” appended on the end in attatchment-dir

END deletewishlist