Create account and Login features:

USER clicks CREATE ACCOUNT and enters name, email and a password

IF email format is invalid THEN
        SHOW "Invalid email"
ELSE IF password length is less than 8 THEN
        SHOW "Password is too short"
ELSE
        READ database to check if the email already exists

        IF email exists in the database THEN
                SHOW "Account exists"
        ELSE
                WRITE new user (name, email, and password) to database
                SHOW "Account has been created"
                RETURN the user to the login page
        ENDIF
ENDIF

USER enters email address and password and clicks "Login"

READ database to find the user with the matching email

IF email is not on the database THEN
        SHOW "Invalid email, Create Account"
ELSE
        COMPARE entered password with the password assigned to the email on the database

        IF passwords don't match THEN
                SHOW "Invalid password"
        ELSE
                GENERATE a session token
                WRITE last login timestamp to the database
                RETURN login success and session token
                REDIRECT user to Dashboard
        ENDIF
ENDIF

Leaving a review

USER enters a rating, writes a comment and clicks "Submit Review"

READ database to check of user's token is valid

IF session token is not valid THEN
      SHOW "Login to leave a review"
ELSE
      READ database to check if user has a "visited" status for the specific location

      IF user has not visited this location THEN
            SHOW "You can only leave a review for locations you have visited"
      ELSE IF comment length is greater than 500 characters THEN
            SHOW "Review is too long"
      ELSE
            WRITE review, user, location, rating, comment, timestamp to database
            UPDATE location's average rating in database
            SHOW "Thank you for your review."
            REFRESH the review's section
      ENDIF
ENDIF

Add Discovery

USER inputs address

DATABASE reads known establishments at that location

      SYSTEM displays known establishments and add Discovery

            IF USER clicks known establishments -
                Proceed to reviews

IF USER clicks Add Discovery
            Prompted to add name, type(ex. Family Fun, Restaurant, appliance, ext.)

      SYSTEM adds location to Database

Add Location

USER inputs address

DATABASE reads known establishments at that location

      SYSTEM displays known establishments and add new establishment

            IF USER clicks known establishments -
                Proceed to reviews

IF USER clicks Add New Establishment
            Prompted to add name, type(ex. Family Fun, Restaurant, appliance, ext.)
            Prompt to verification process.
               System warns USER of possibility of suspension for adding False or nonexistent Business

      SYSTEM will pending adding location until verified.

      SYSTEM adds location to Database once verified

Search for Location

WHEN USER opens app

IF user profile is enabled

      SYSTEM displays past locations of review or <mark>save</mark>
      //Note: suggestion of Save Location Option

            SYSTEM displays locations by type

      IF USER selects type
            SYSTEM displays names and images of locations of selected type

            IF USER selects LOCATION
                Display name, address, activities, reviews

      Note: we may be able to do this with a switch statement, using a stacking integer and an id to determine the amount. Let's discuss that later