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**Name of the GUI application**: 1Basket

**Purpose of the Application**: To keep a daily/monthly/yearly count of eggs collected for a user’s chickens or other egg-producing birds.

**Reason for Creating the Application**: I am considering raising backyard chickens and thought it would be neat to have an app to keep track of how many eggs we collected, by chicken or total from the flock, and then to see the results over time.

**Goals of the Application**:

1. Allow users to add their backyard chickens (or other fowl).
2. Allow users to keep track of how many eggs laid, by chicken or flock, and if there were any damaged eggs.
3. Enable users to see total eggs laid for week, month, and year.
4. Allow users to edit, delete, or update existing chickens/flocks.
5. Have a simple user-friendly, easy-to-navigate app for users to track their egg yields.

**Target Audience**: The target audience for this app would be anyone with a backyard flock of egg-producing birds, or with the intention of starting one.

**Outline of the Final Python tkinter GUI application**:

1. **Main Window**:
   * Welcome message and brief introduction to the application.
   * Options to add, search, view, categorize, edit, or delete Chickens.
2. **Add Bird or Flock Window**:
   * Selection for individual bird or flock.
   * Add Bird/Flock name and type.
   * Buttons to save or cancel.
3. **Add Egg Count**
   * Add total eggs for day by flock or chicken.
   * Add number of damaged eggs.
   * Button to save or cancel.
4. **View Egg Yield Window**:
   * Displays total quantity of eggs, per chicken and/or total for flock, by week, month, and year.
   * Displays number of damaged eggs.
   * Button to return to home page.
5. **Edit Bird/Flock Window**:
   * Allows user to edit bird details or delete the bird.
     1. **Delete Confirmation Dialog**: Confirmation dialog box when deleting a bird to prevent accidental deletions.
   * Buttons to save or cancel.
6. **Menu Bar**:
   * Options to add a new bird/flock, add daily egg count, view bird/flocks, view egg yield, or exit.
7. **Help/About Window**:
   * Information about the application, version, author, and how-to instructions.

**Visual Flow Chart**

A diagram of a user

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