

## Product Backlog

Team: HealthCat (vsyed & ajfische)

### Web App Interface

1. Login
  - 1.1. When a logged out user tries to access any page on site, direct to Log In page
  - 1.2. Input email and password
  - 1.3. Login to the site
  - 1.4. Go to Profile page
2. Register
  - 2.1. Click *Register* on Log In page
  - 2.2. Fill out form (email, password, confirm password, name)
  - 2.3. Send email confirmation
  - 2.4. Upon clicking email link, display confirmation and link to Log In page
3. Reset Password
  - 3.1. A logged out user can enter email to send a new password link.
4. Edit Profile information about a himself/ herself
  - 4.1. Edit Location, Profile Picture, and Email
5. View Profile
  - 5.1. Display name, profile picture, location on left sidebar
  - 5.2. Display list of bowls with a list of pets under each bowl
6. Change Password
  - 6.1. Enter old password
  - 6.2. Enter new password
  - 6.3. Confirm new password
7. Add KibbleControl food bowls
  - 7.1. Click *Add Bowl* on Profile page
  - 7.2. Input id of bowl and name for bowl (such as 'Kitchen', 'Cat Bowl', or 'Dog Bowl')
  - 7.3. Click *Connect*
  - 7.4. Send signal to connect to bowl, have user push button on bowl, bowl sends confirmation, and link bowl id to user
  - 7.5. If successful, go to Bowl Settings form
8. Edit KibbleControl bowl settings
  - 8.1. Click the 'Edit' icon next to bowl name
  - 8.2. Check/uncheck to receive Bowl Empty Alert
  - 8.3. Set open and close times
9. Add Pet Profiles
  - 9.1. Click *Add Pet* on Profile page underneath the bowl name that the pet should eat from
  - 9.2. Fill out form of pet information (age, weight, indoor/outdoor, etc)
  - 9.3. Fill out form of diet restrictions (how much food per day, time intervals, etc)
  - 9.4. Click *Submit* at bottom of form
  - 9.5. Display pet name and picture on Profile page

10. Update Pet Profiles
  - 10.1. Click the 'Edit' icon next to pet name on Profile page
  - 10.2. Edit form inputs as needed and hit *Update*
11. Display Statistics for Pet
  - 11.1. Click *Statistics* nav button in navbar
  - 11.2. Display interactive charts and graphs about pet's diet from data collected from KibbleContol bowl
  - 11.3. Allow user to show/hide each pets' data on each graph
  - 11.4. Allow user to change timescale for each chart
  - 11.5. Chart for Food Consumption over Time
  - 11.6. Chart for Time of Day that Food is Eaten
  - 11.7. Chart for Duration of Sitting
12. Display Statistics for Bowl
  - 12.1. Click *Statistics* nav button in navbar
  - 12.2. Click *Bowl Statistics* on Statistics page
  - 12.3. Display charts and graphs of which pets are eating at which bowl
  - 12.4. Display how much food is eaten from each bowl per day
  - 12.5. Display how much food is left
13. Make Recommendations based on Pet Profile
  - 13.1. Recommend food brand/type
  - 13.2. Recommend ideal weight
  - 13.3. Recommend feeding schedule
  - 13.4. Recommend amount to feed per day
14. Analyze Statistics
  - 14.1. Interpret data into text to display to user.
15. Make Recommendations based on Analysis of Statistics
  - 15.1. Recommend feeding schedule
  - 15.2. Recommend amount to feed

#### Bowl Communication

The communication between the bowl running Raspberry PI and the web app server will be handled by vsyed. Web app sends REST API calls to bowl to program the bowl. Bowl sends http requests to server to update database.