Female in her 70’s, homeowner, married kids out of the house, retired, has lawn, houseplants, and vegetable garden. Uses some technology but is not as savvy as younger generations

1. Understanding User Needs and Pain Points:

1. Can you tell me about your experience with managing soil moisture and nitrogen levels for your trees or plants? Mostly on a timed schedule for fertilizer. Automated for outside watering (2 times a week). Finger test for house plants.

2. What challenges do you encounter when it comes to monitoring and maintaining optimal soil conditions? No testing leads to inconsistent results especially with garden

3. How important is it for you to have real-time data on soil moisture and nitrogen levels? More important for garden – get better yield

2. Exploring Current Practices and Tools:

1. What methods or tools do you currently use to track soil moisture and nitrogen levels? Finger test for moisture level and observation of plants. Used to have sensor that measured moisture, nitrogen and phosphate but couldn’t read while in the soil.

2. How satisfied are you with the effectiveness of these methods or tools? Not satisfied with sensor, and would like something better than observation and finger test.

3. Are there any limitations or frustrations you experience with your current approach? Small type, chart to compare levels too hard to read, and finger test not precise

3. Gathering Feedback on Desired Features and Functionality:

1. What features would you consider essential in an application designed to help with monitoring soil conditions? Does not want alerts because she is already bombarded with alerts from other apps and does not like them. When app is opened have a generalized view that lets you know if there is a problem, and the ability to dig further if needed.

2. Are there any specific functionalities or capabilities you would like to see included in such an app? Didn’t really have anything to say but when I brought up specific aspects of inputting what the moisture and nitrogen levels would be set to really liked the idea of a drop down list of trees / plants with predetermined nitrogen and moisture levels.

3. How do you envision integrating alerts or notifications for low nitrogen levels and moisture? Was more open to getting an alert if automation of sprinklers could be involved. Alert would be nice to let her start sprinkler but would also want vacation mode to automatically do it.

4. Discussing User Experience and Interface Preferences:

1. What qualities do you look for in the user interface of a mobile application? No clutter, large print – ability to change size, clean otherwise she loses focus

2. How important is ease of navigation and simplicity in the design of an app like this? Very important. Was the top thing

3. Do you have any preferences or suggestions regarding the layout or organization of information within the app? History of readings would be nice