Testing Scenarios

I. Medical Phone Respondent

This test participant pretends to be a medical professional and uses BugBytes as a quick reference tool for a patient during an emergency call. The patient explains over the phone that he was mountain biking through Cedarville State Forest in Southern Maryland, where he took a break and managed to get bitten by a brown spider with short stubby legs. The bite has the appearance of a large red bump. The patient wants to know if the bite is serious and if additional medical treatment is needed.

II. Home User

This test participant pretends to be a home user that found a spider in their toddler’s crib. The participant pulls out their mobile phone, loads the BugBytes application and attempts to identify it. After answering questions about its color, size, and any other distinctive markings, they discover relevant information about the spider.

III. Camping Counselor

This test participant pretends to be a nature-focused summer camp counselor and has the duty of training kids on how to handle minor injuries. As part of the lesson, the test participant starts playing a game with the kids to recognize bites of different kinds. After providing some initial information about the characteristics of certain bites, the kids form a line up to the counselor. While in line, each kid reads information that the counselor has prepared on common bites.
User Tasks List

I. Tasks for everyone

1. Enter your location.
2. Place a call to the Medical Emergency services.
3. Search the database for a spider.
4. Search the database for a snake.

II. Task for specific scenarios

Medical Phone Respondent

1. Find a spider bite that has the appearance of a small red bump that can possibly be venomous.
2. Find a related spider bite that has the same appearance but is NOT venomous.
3. Find a snake bite with the same appearance.
4. Find a brown spider that possibly has stubby legs.
   a. If not find brown spiders.

Home User

1. Enter the characteristics of a (specific) spider.
   a. i.e. a brown spider with long legs
2. Find a spider related to the previous spider that is venomous.
3. Using the BugBytes application show me if the (specific) spider is venomous.

Camp Counselor

1. Enter the characteristics of a (specific) spider.
   a. i.e. a brown spider with long legs
2. Enter the characteristics of a snake that has a (specific) trait.
   a. i.e. a green banded snake that is less than 18 inches long
3. Find a venomous snake related to the (specific venomous) snake.
BugBytes Pre-Test Questionnaire

Please respond to every question. Thank you!

Age _______ Gender _____________

Area of work _______________________

Rank your technology proficiency:  1  2  3  4  5  
lowest                        highest

Smartphone ownership: none  BlackBerry  iPhone  Android  Windows

How long have you had a smartphone?  N/A  0-6 months  6-12 months  1-2 years  longer

Rank your general knowledge of bugs:  1  2  3  4  5  
lowest                        highest
BugBytes Post-Test Questionnaire

Please respond to every question. Thank you!

1. Please circle the numbers that best reflect your impressions about the application:

   Overall reaction to the application:  1   2   3   4   5   6   7   8   9
   terrible                      wonderful
   Amount of information displayed:  1   2   3   4   5   6   7   8   9
   too little                   too much
   Order of screens:  1   2   3   4   5   6   7   8   9
   illogical                    natural

2. Did you encounter anything that prevented you from accessing information? If so, what was it?

3. If you had difficulty completing any particular task, list the task and the point of difficulty.

4. List any parts of the application that did not function as you expected, and how you would change their function.

5. Write any general comments you have about the application.