Keep these questions in mind as you do the assigned readings. Write complete sentences to answer these questions.

1. (**Activity**) Which citizen science app did you explore? What is the purpose of the app? Describe the functionality of the app.
2. (**Activity**) What data does the app use and how does the app use the data collected?
3. (**Activity**) What are the intended positive impacts of your citizen science app? What might be some unintended negative impacts? You might consider impacts on society, the economy, culture, etc.

**Portfolio Reflection Questions**

**Make a copy** of this document in your Portfolio Assignments folder and answer these questions in the spaces below. Once complete, turn in this assignment according to the steps given by your teacher.

[6.10 Impacts of CS: Crowdsourcing and Citizen Science Apps Page](https://runestone.academy/runestone/books/published/mobilecsp/Unit6-Communication-Through-Internet/Impacts-of-CS-Crowdsourcing-with-Citizen-Science-Apps.html)

Keep these questions in mind as you do the assigned readings. Write complete sentences to answer these questions.

1. Which citizen science app did you explore? What is the ***purpose*** of the app? Describe the ***functionality*** of the app.

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2. What ***data*** does the app use and how does the app use the data collected? For example, as a citizen scientist using the BloomWatch app, you would take pictures of cyanobacteria blooms in water and submit the image along with the date, the state and town, weather conditions, surface water conditions, bloom size, public access to the water, and any comments you’d like to add. BloomWatch specifies they will store it in a public database for analysis in helping to understand the occurrence and locations of cyanobacteria blooms, but they might also send the data to state water quality agencies. (Hint: you might need to install the app or look at screenshots of the app to find out the data it collects.)

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3. What are the ***intended positive impacts*** of your citizen science app? What might be some ***unintended negative impacts***? You might consider impacts on society, the economy, culture, etc.

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