Criterion E: Evaluation

Evaluation of the product:

After showing the product to my client, we agreed on this[1]:

1. View all elements in the periodic table in ascending element order.
   - ✅The client was satisfied that she was able to view all the elements but she thought that having to scroll up to see all the elements was quite annoying.
2. Choose an element of the periodic table and view its attributes.
   - ✅The client was fully pleased with this and had no issues, but said that maybe extra information would have been helpful.
3. Search for elements via names or symbols and find the best matches.
   - ✅The client was happy with this, but she wished that users could search for both names and symbols, but she did not mind.
4. Allow students to test their element memorization skills via free response and multiple choice.
   - ✅The client was extremely pleased with this and she said that this was perfect for her students.
5. Allow students to test their element memorization skills by answering with names or with symbols.
   - ✅The client thought that this was added perfectly because students could test their knowledge both ways, allowing them to truly memorize the elements.
6. Allow users to choose their own elements that they want to test.
   - ❌It would have been helpful if the user could choose elements to use on the test, but it would have been extremely annoying for the student if they were choosing more than 5 elements. The client did not mind because all of the elements that she tested her students were the first 20 elements.
7. Allow users to receive hints about an element during the test to help them.
   - ✅The client was pleased with this but she said that it wasn't that helpful, but happy that it was there.
8. The program can be viewed on all devices, including phones and computers.
   - ❌Unfortunately, Coding Rooms does not have a mobile-friendly version. The program can be used on any computer that has a browser, internet connection, and an account. This is a limitation of Coding Rooms as the website is not well supported on mobile, but the client did not mind because she believed that most students would study on their Chromebooks.

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[1]See Appendix, Conversations, Criterion E Conversation

Recommendations for Further Development:

- The client said that adding additional information to an element could have been much more helpful like being able to see when an element was discovered, who discovered it, an element's electronic configuration, electronegativity, electron affinity, and radius.
- The client said that for searching, while most people would search for only names or symbols, some might want to search for both, or even for other things like groups and types.
- The client talked about how when viewing all the elements, it takes a long time, so it would be annoying to scroll up. There are other problems relating to the console, so using a real interface would have been better

Word Count: 468