1. How and why are files used as a data abstraction in this app?
2. Explain the List of Lists data abstraction used in this app.
3. When and why do programmers use APIs?
4. Provide screenshots of your enhancement projects.

**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.

[7.5 Data Map App Curriculum Page](https://runestone.academy/runestone/books/published/mobilecsp/Unit7-Using-Analyzing-Data/Data-Map-App.html)

Answer the following questions:

1. How and why are files used as a data abstraction in this app?

**Answer**

|  |
| --- |

2. Explain the List of Lists data abstraction used in this app.

**Answer**

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| --- |

3. When and why do programmers use APIs?

**Answer**

|  |
| --- |

4. Provide screenshots of your enhancement projects.

**Answer**

|  |
| --- |