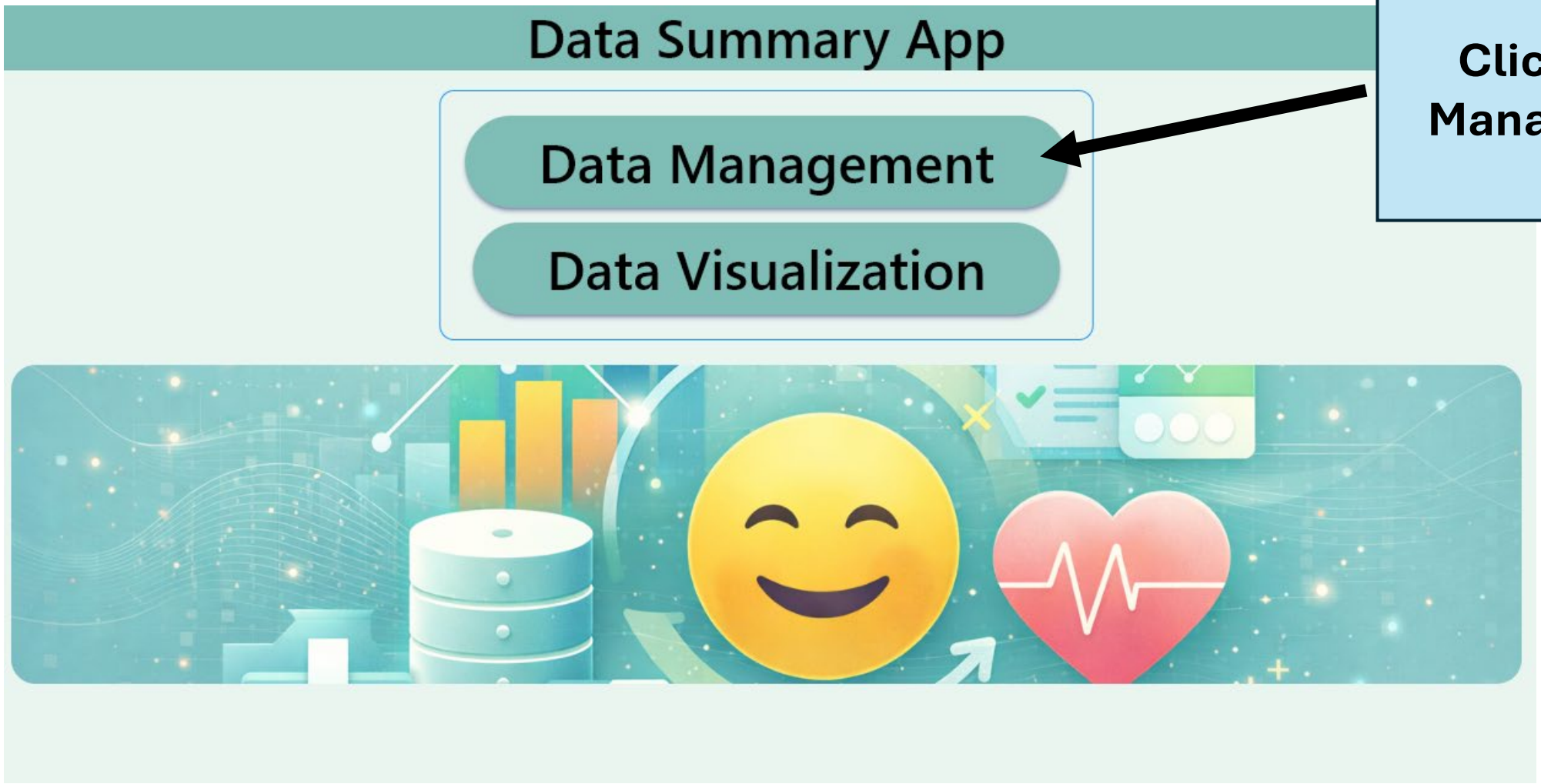
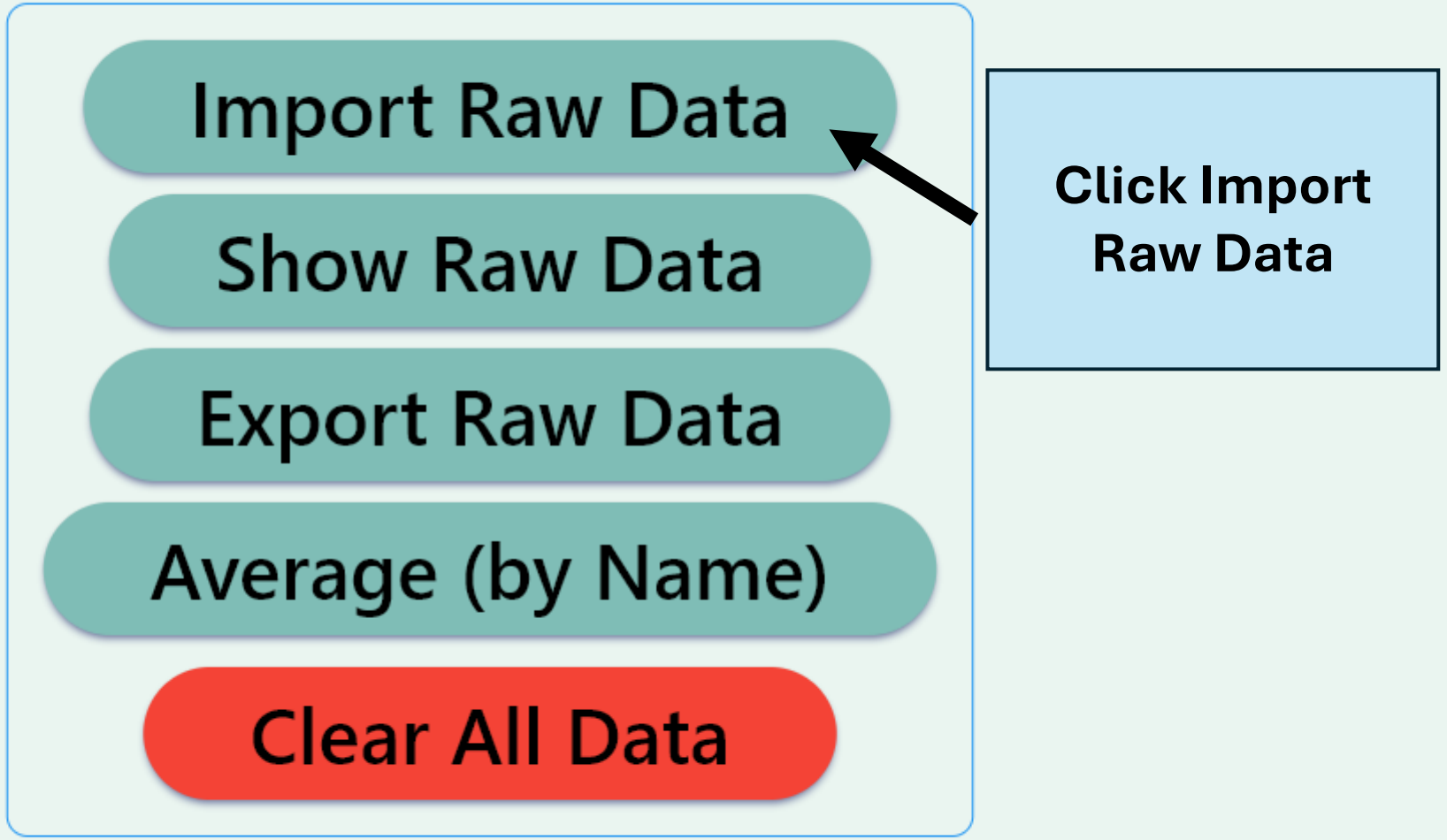
This is the home screen of the app. The buttons link off to the data management section of the data visualisation section.

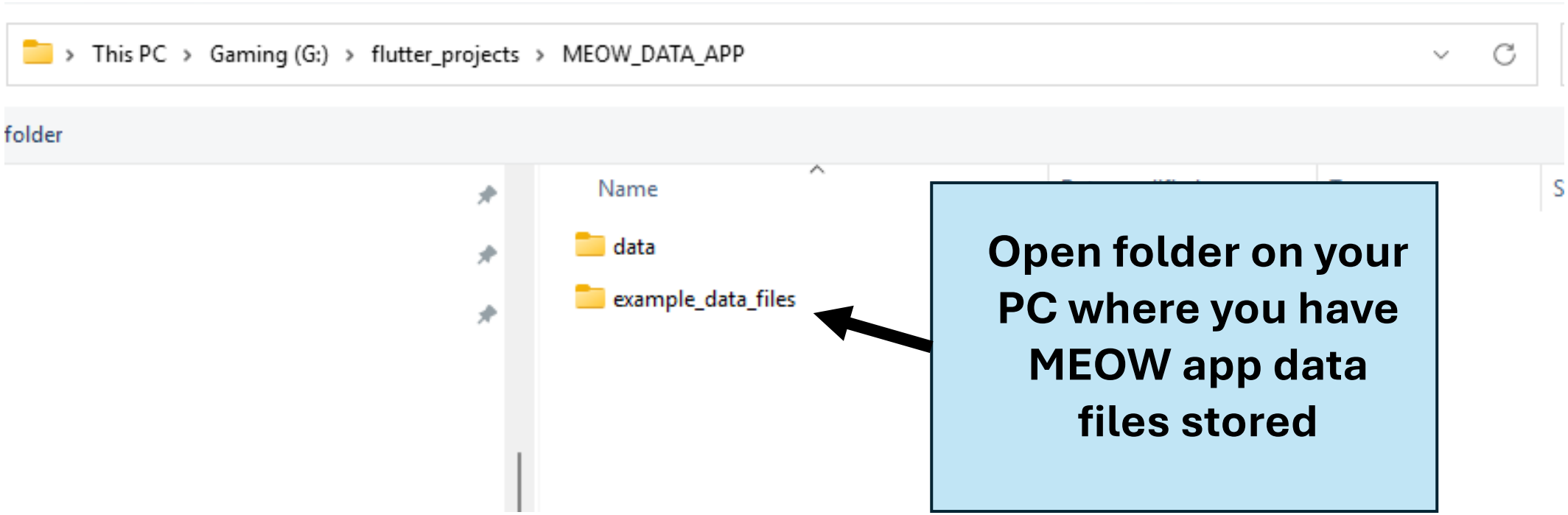
Before we can visualise data, we need to upload some data into the app!

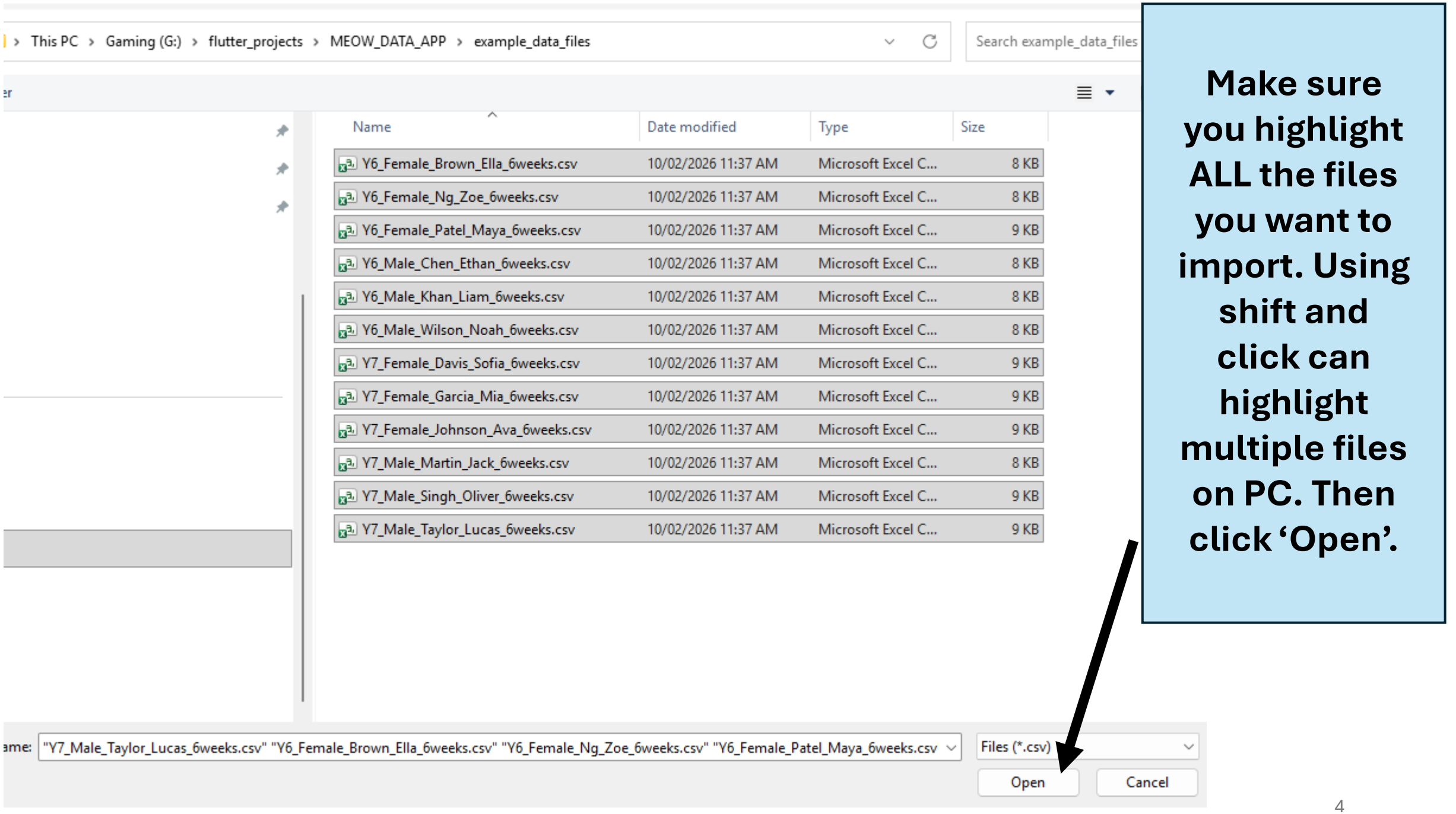


Data Management

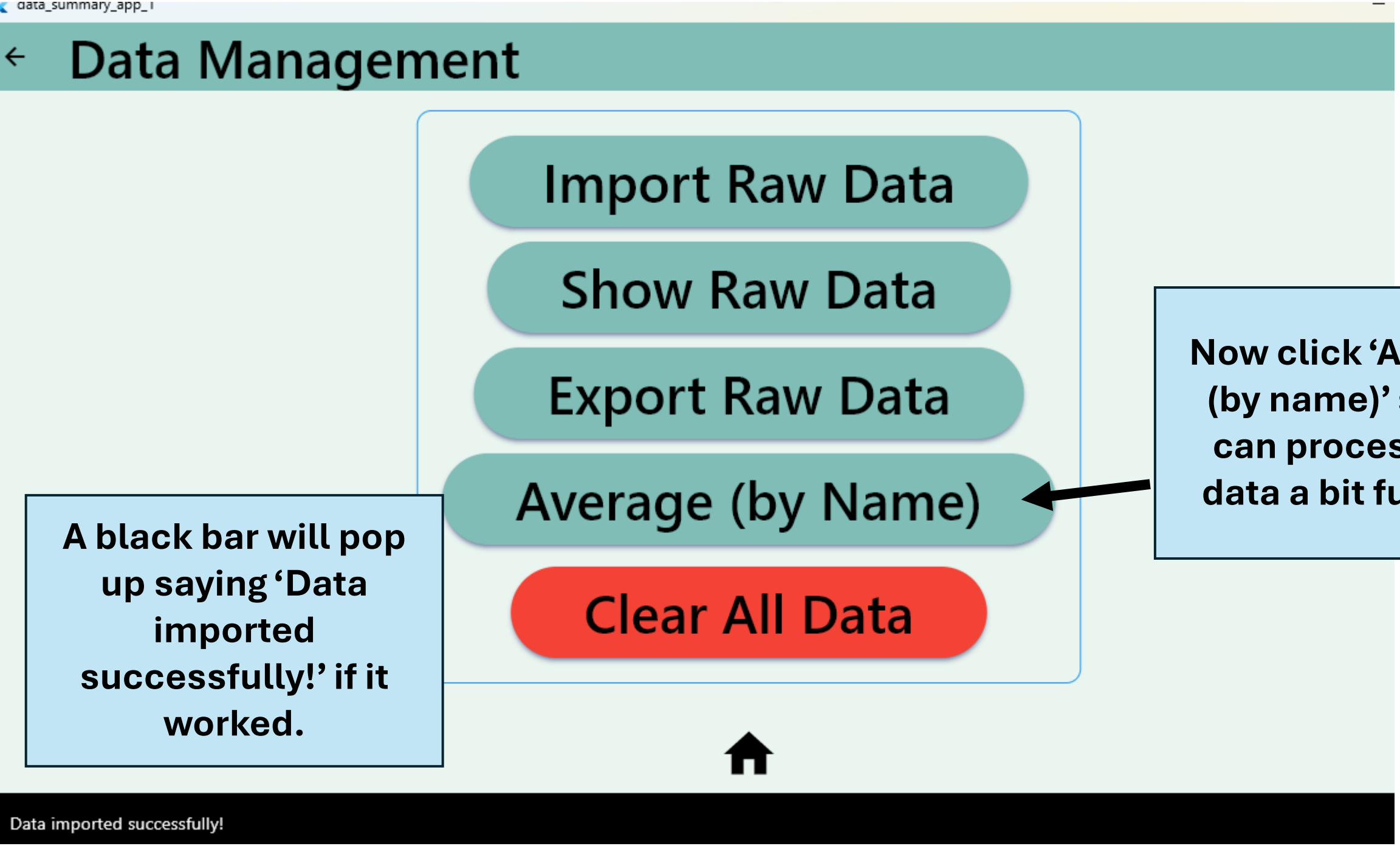


A pop up window will appear and you will need to navigate to the folder where you have stored data on your computer. We are going to make use of some example data files. Wherever you have copied the MEOW data app to on your computer, within the MEOW_DATA_APP file there will be a ‘example_data_files’ folder. Open that.



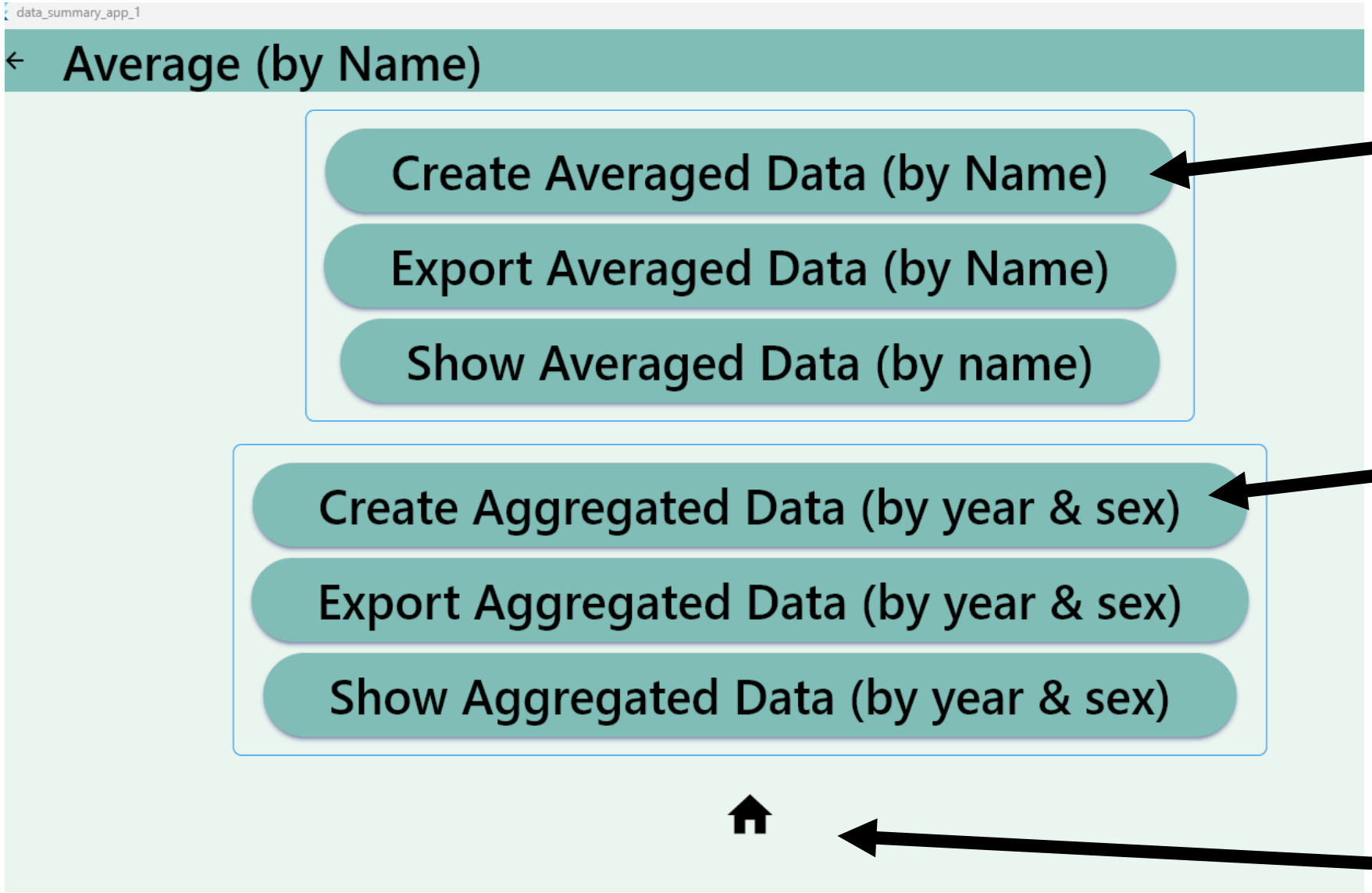


Make sure you highlight ALL the files you want to import. Using shift and click can highlight multiple files on PC. Then click 'Open'.



A black bar will pop up saying 'Data imported successfully!' if it worked.

Now click 'Average (by name)' so we can process the data a bit further.

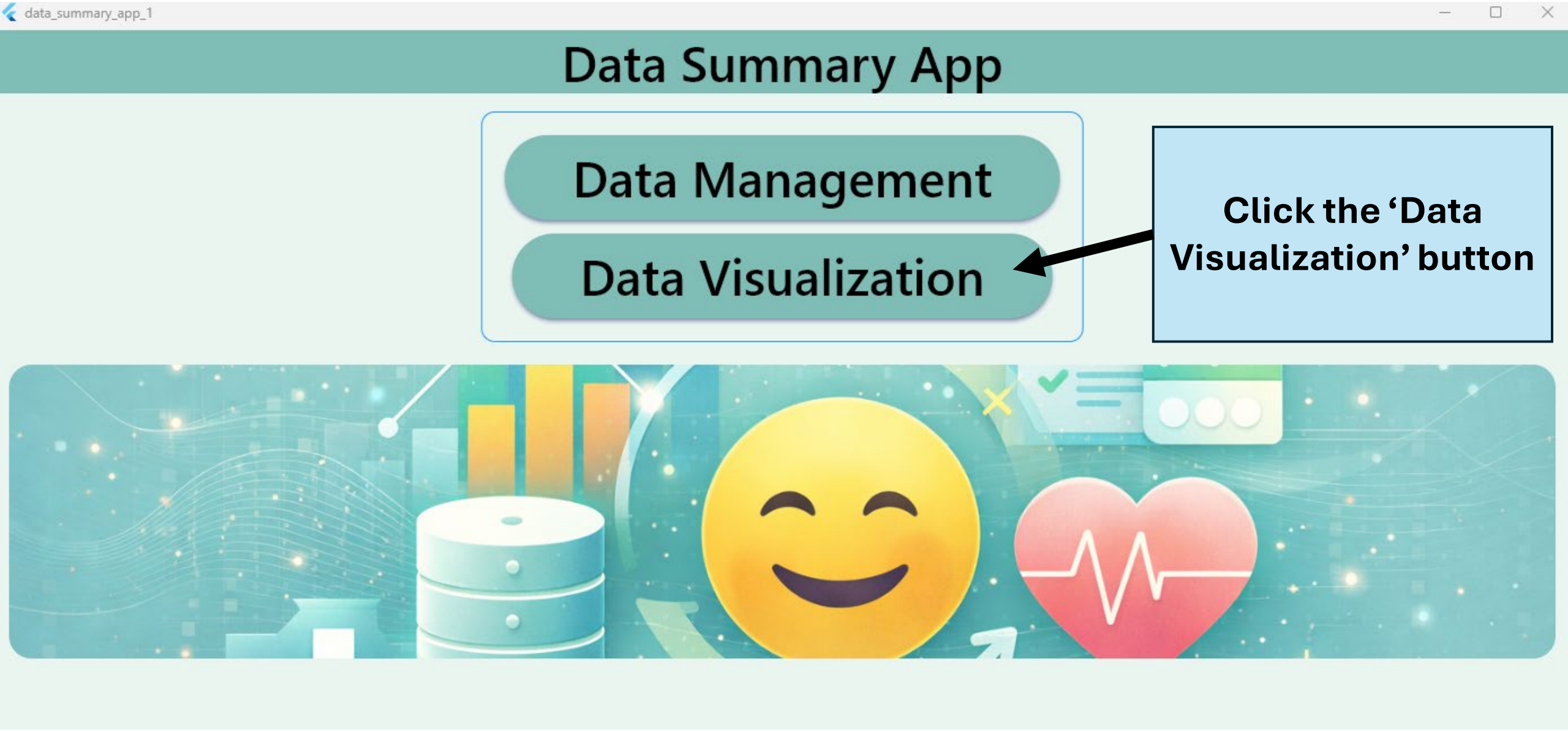


1. Click 'Create Averaged Data (by Name)'

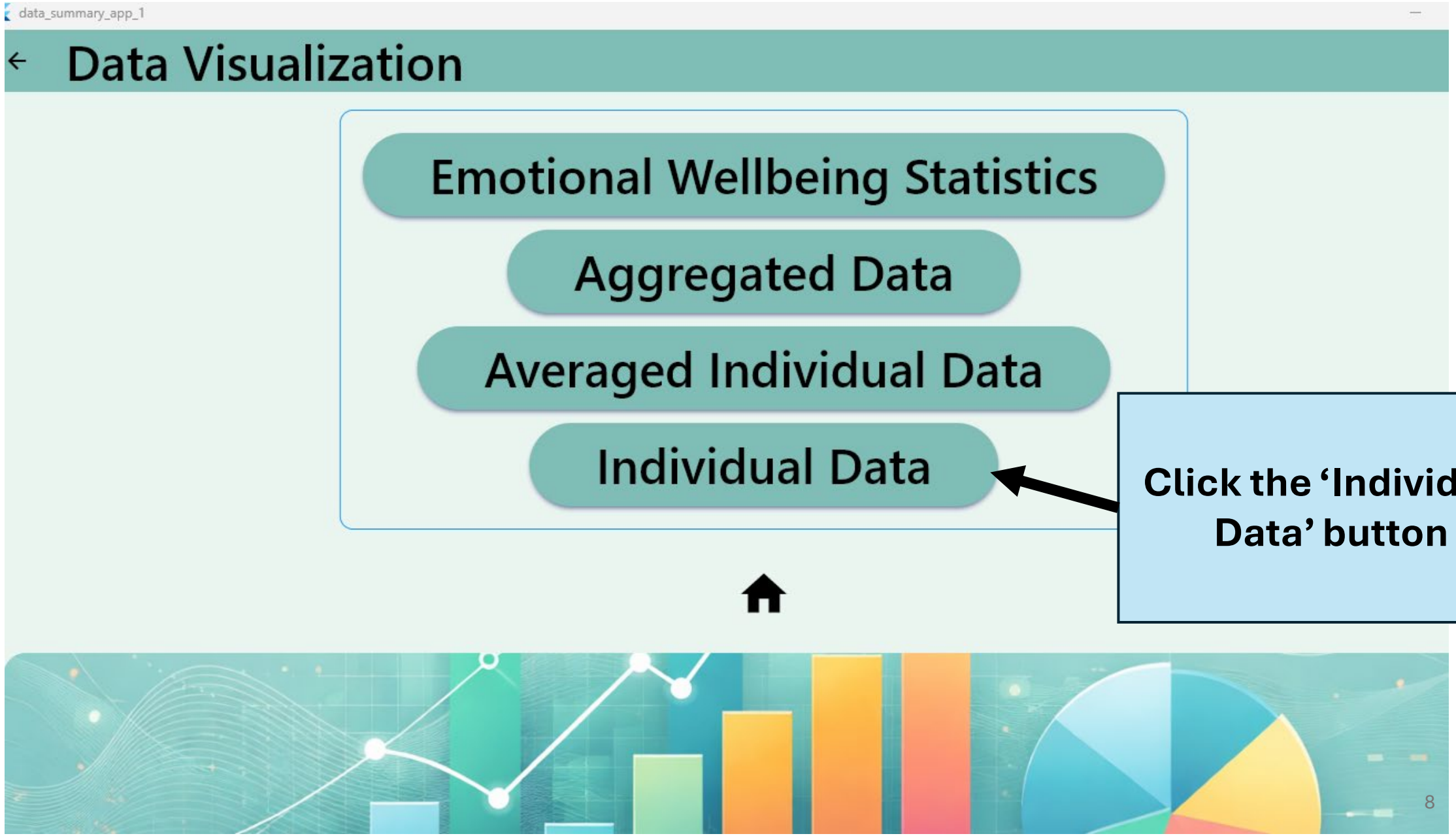
2. Click 'Create Aggregated Data (by year & sex)'

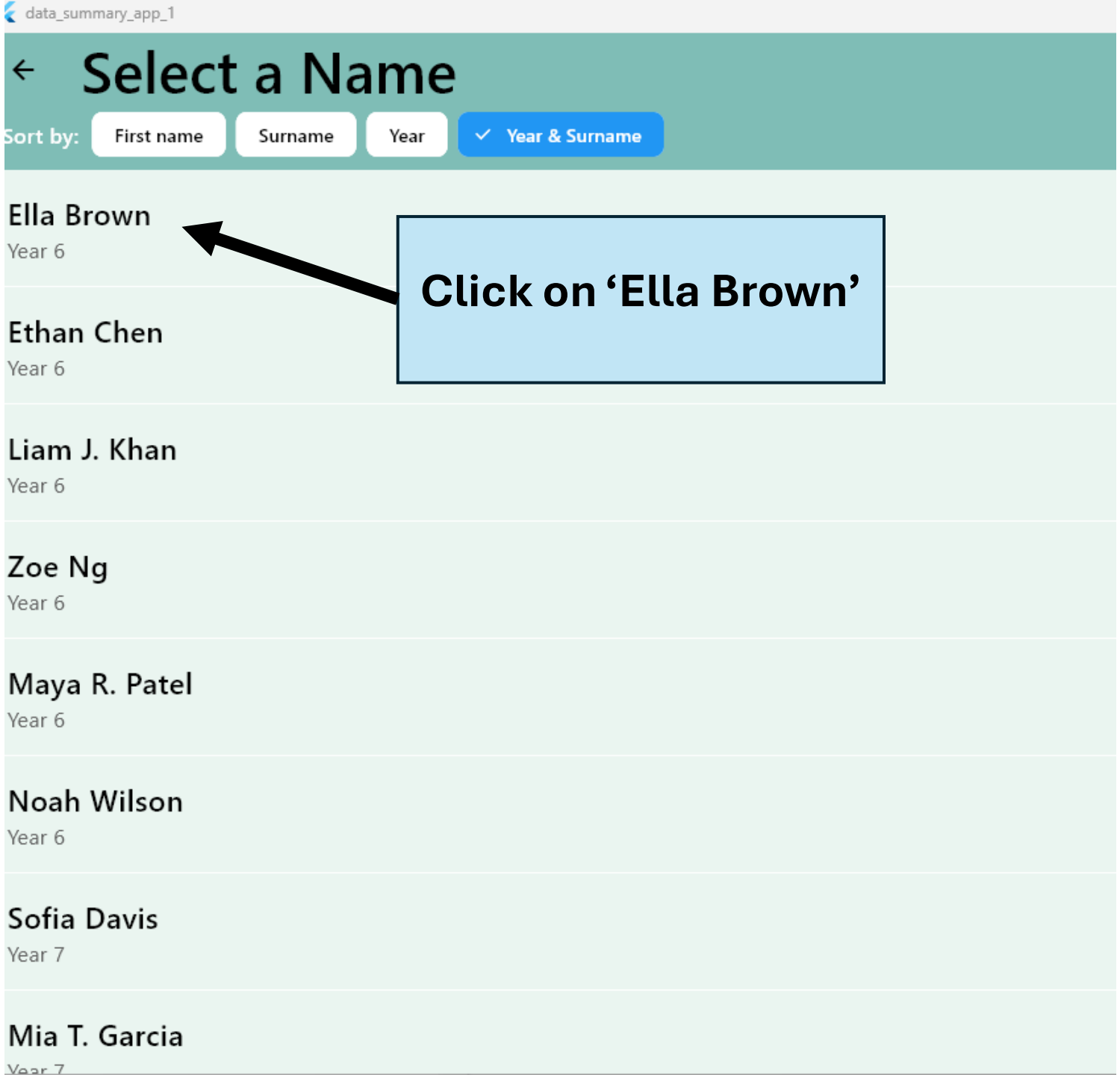
3. After 1 & 2, then click the HOME icon

Now we have the data uploaded we can start looking over the data ☺



There are several different options for viewing the data based on level of depth, right down to the individual level.





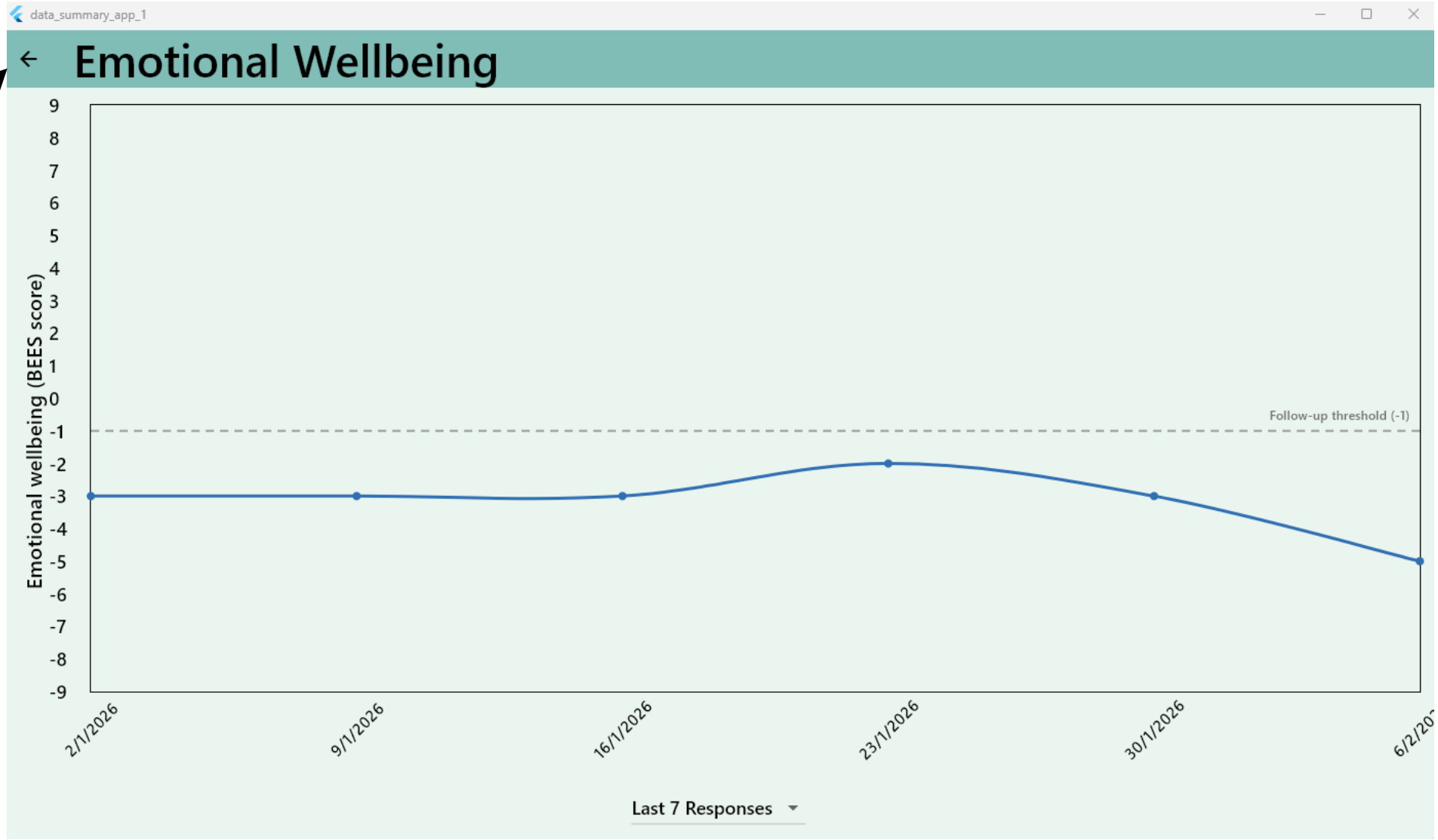
This page lists all the individuals that data are present for. The page defaults to sorting by Year and Surname.

Individual Data

Click on ‘Emotional Wellbeing’

This page lists all the different measures that are obtained via the MEOW app.

Click the back button



Note how this individual is consistently below threshold on emotional wellbeing across all monitoring points.

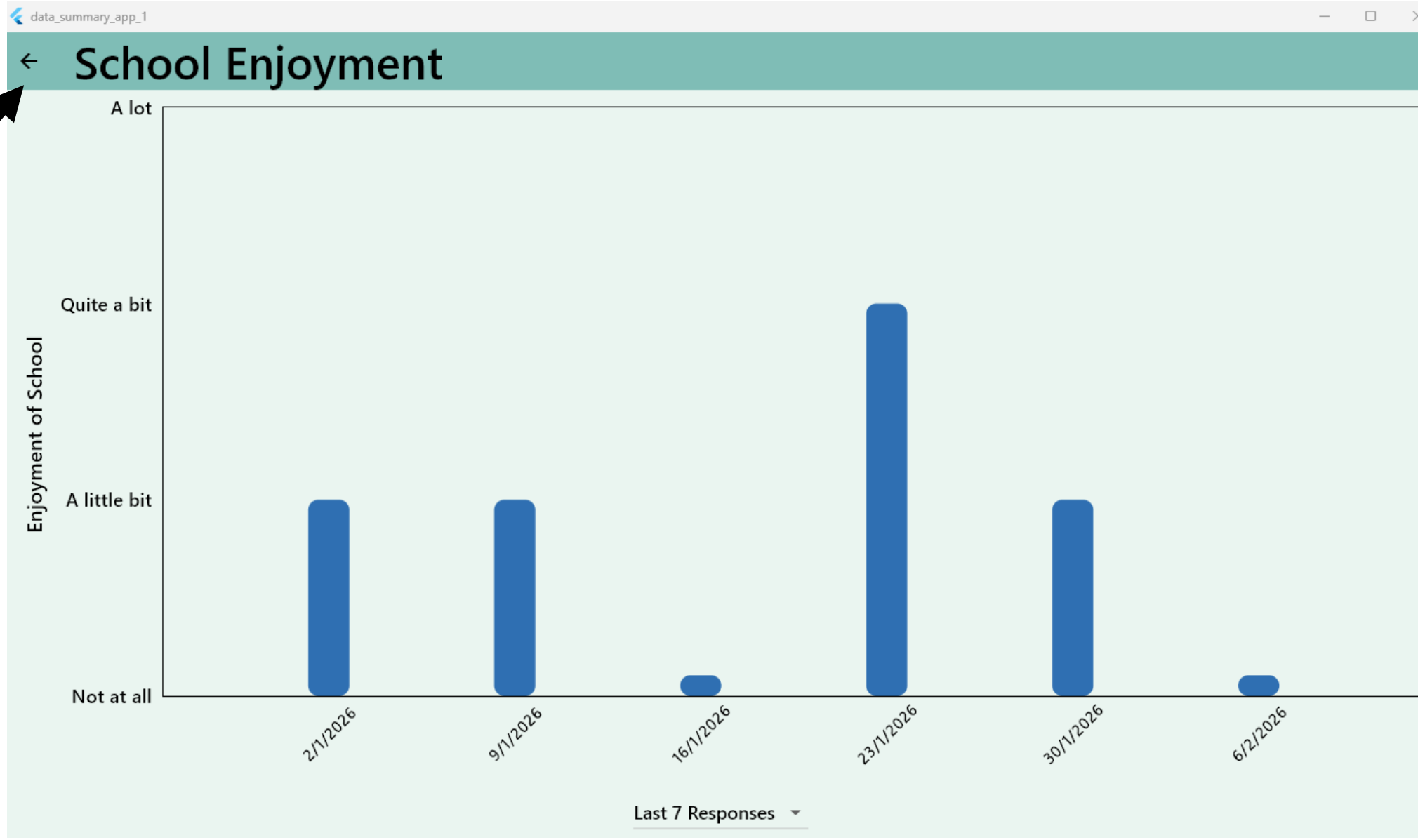
This is an example of someone who is clearly not doing very well emotionally with prolonged/consistent negative wellbeing.

Individual Data

Click on ‘School Enjoyment’

This page lists all the different measures that are obtained via the MEOW app.

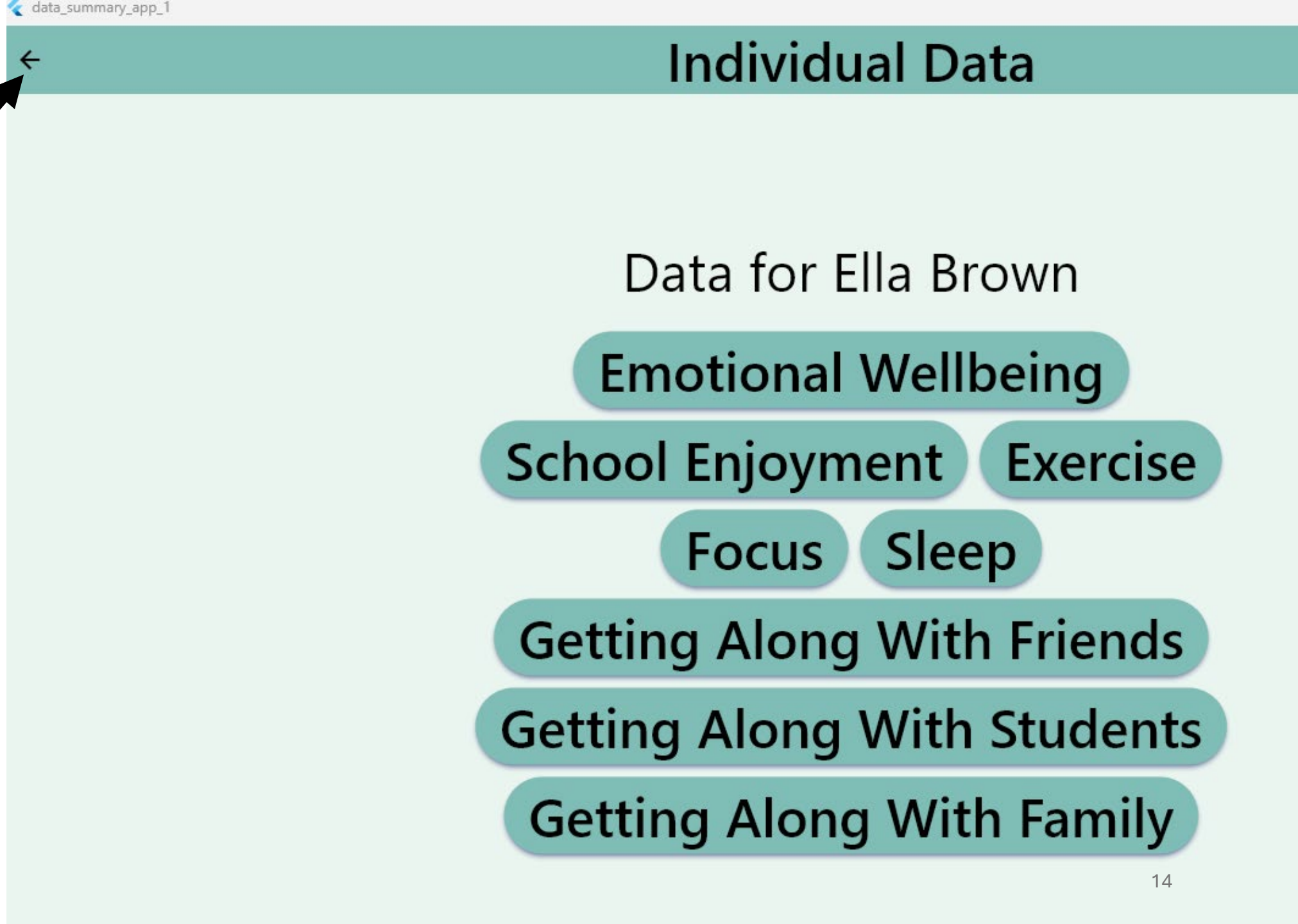
Click the back button

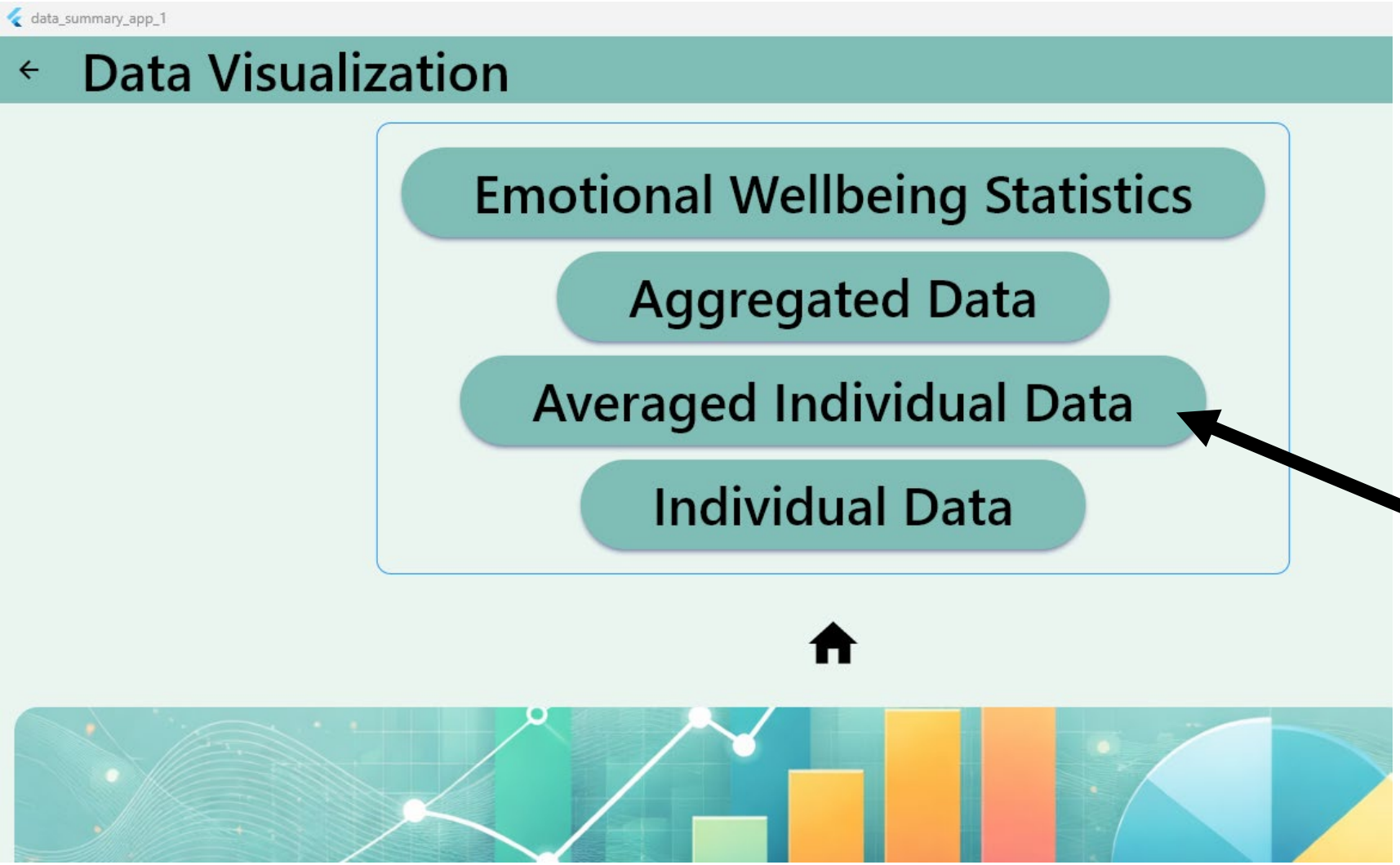


Note how this individual does not appear to be enjoying school very much across the monitoring period.

The additional measures can provide additional insight into what might be going on for the individual.

Click the back button again





Click the 'Averaged Individual Data' button

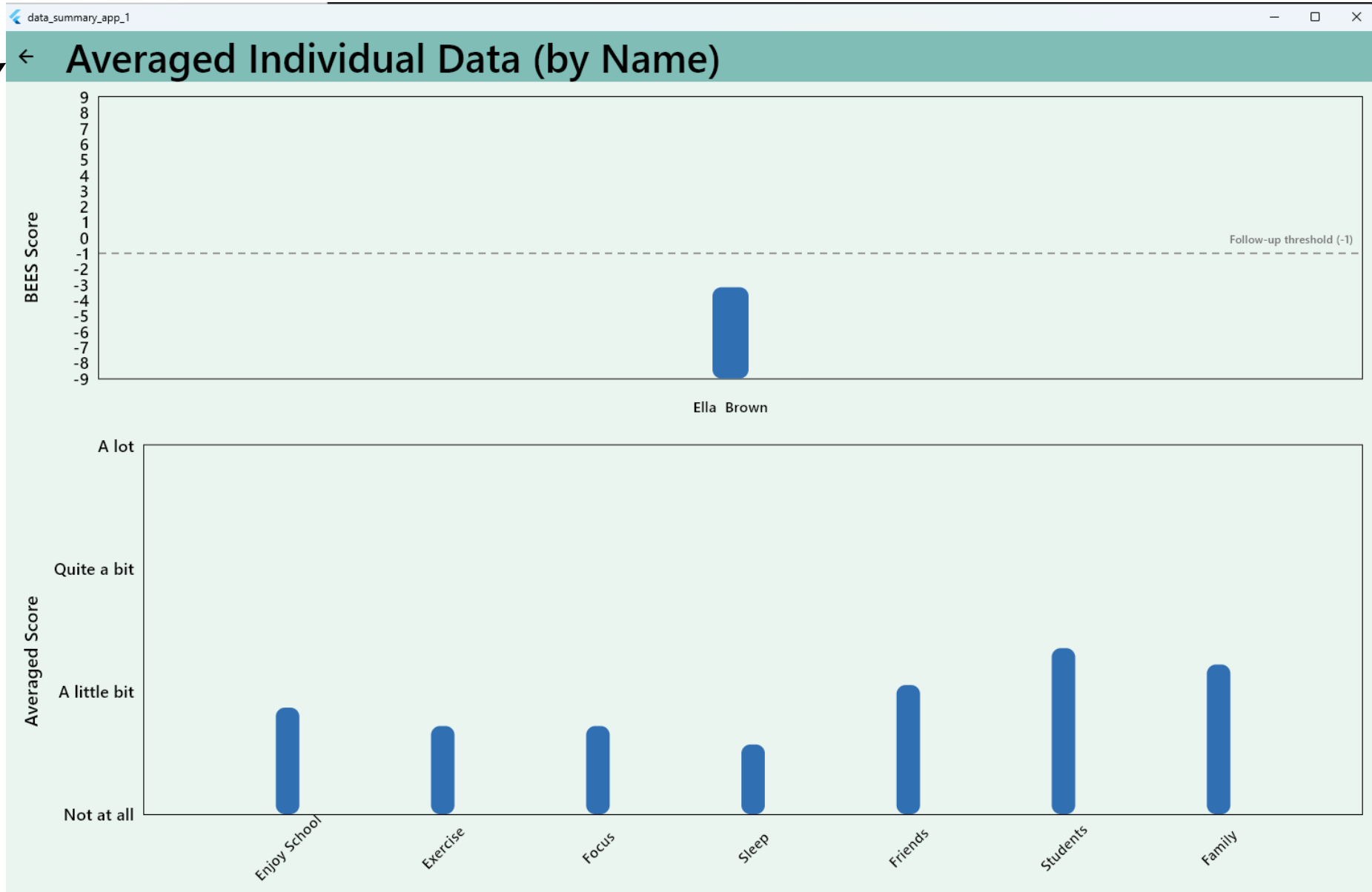

data_summary_app_1
Select a Name
Sort by:
First name
Surname
Year
Year & Surname
Ella Brown
Year 6
Ethan Chen
Year 6
Liam J. Khan
Year 6
Zoe Ng
Year 6
Maya R. Patel
Year 6
Noah Wilson
Year 6
Sofia Davis
Year 7
Click ‘Ella Brown’

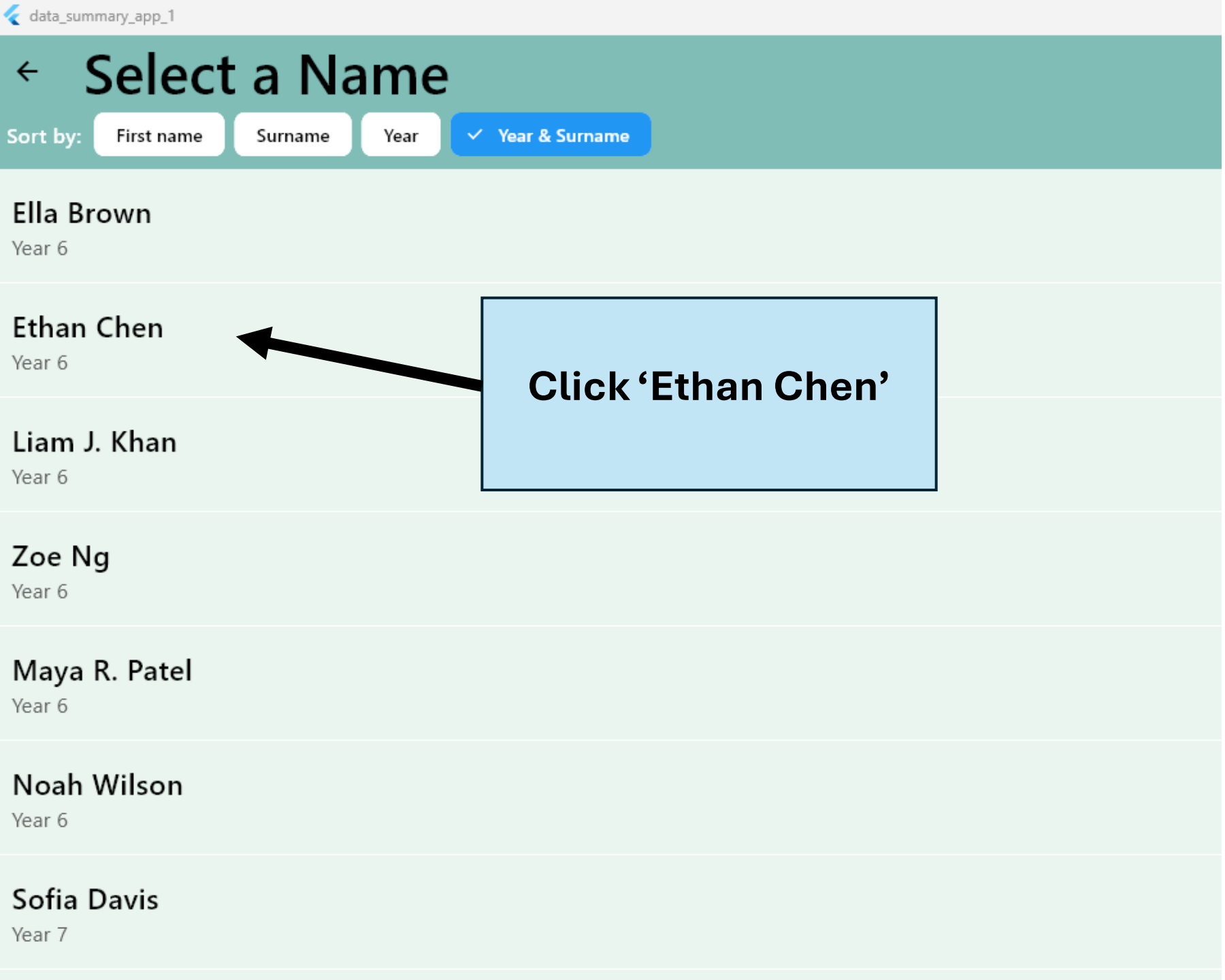
Click the back button

This chart shows the data for this individual averaged across their monitoring points for all measures captured by the MEOW app.

Note for the BEES (emotional wellbeing) their average score is well below the low threshold line. Also note they are quite low on all other measures as well.

This is an example of what data would look like for an individual worthy of follow up.



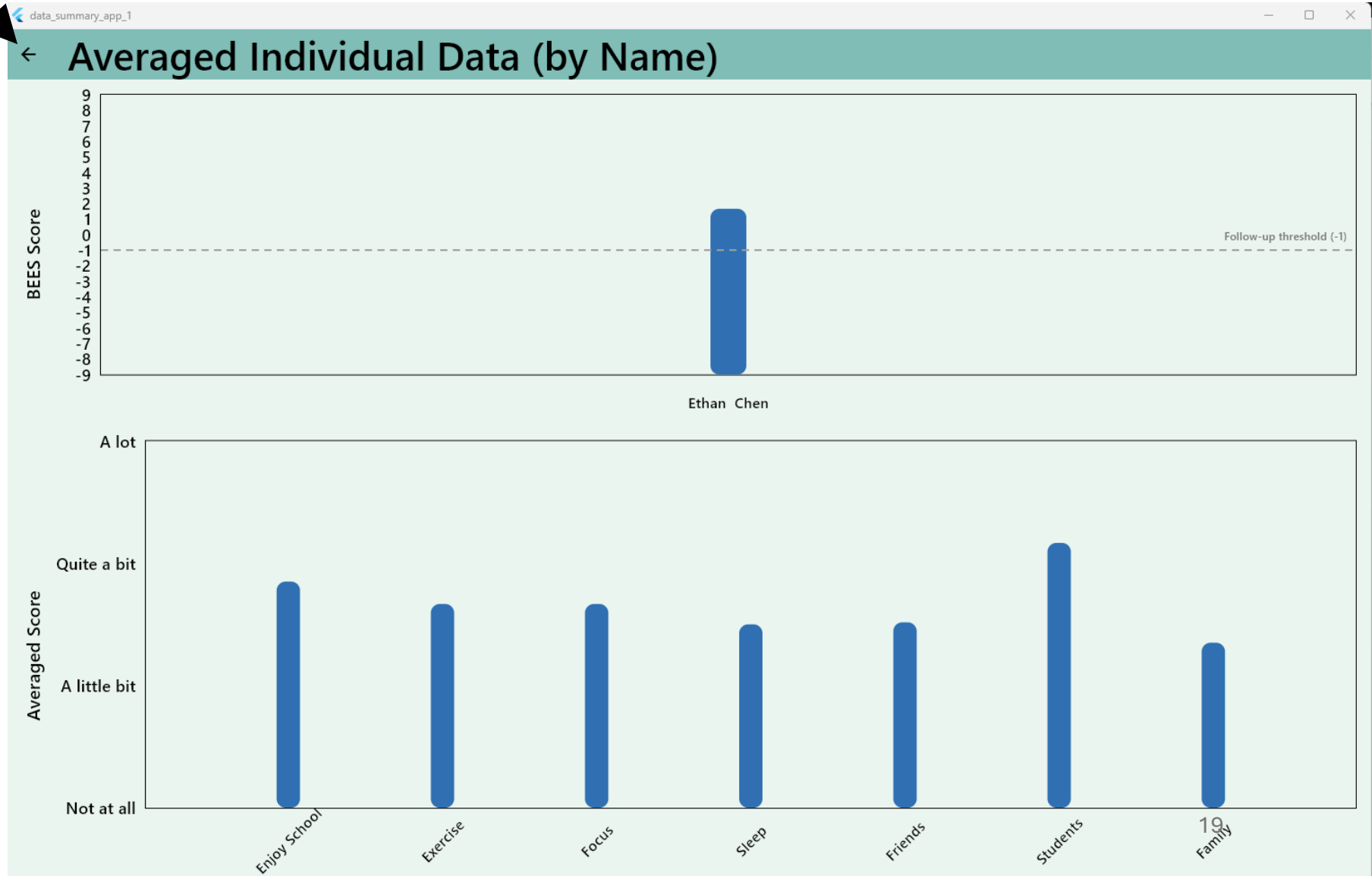

data_summary_app_1
Select a Name
Sort by:
First name
Surname
Year
Year & Surname
Ella Brown
Year 6
Ethan Chen
Year 6
Liam J. Khan
Year 6
Zoe Ng
Year 6
Maya R. Patel
Year 6
Noah Wilson
Year 6
Sofia Davis
Year 7
Click ‘Ethan Chen’

Click the back button

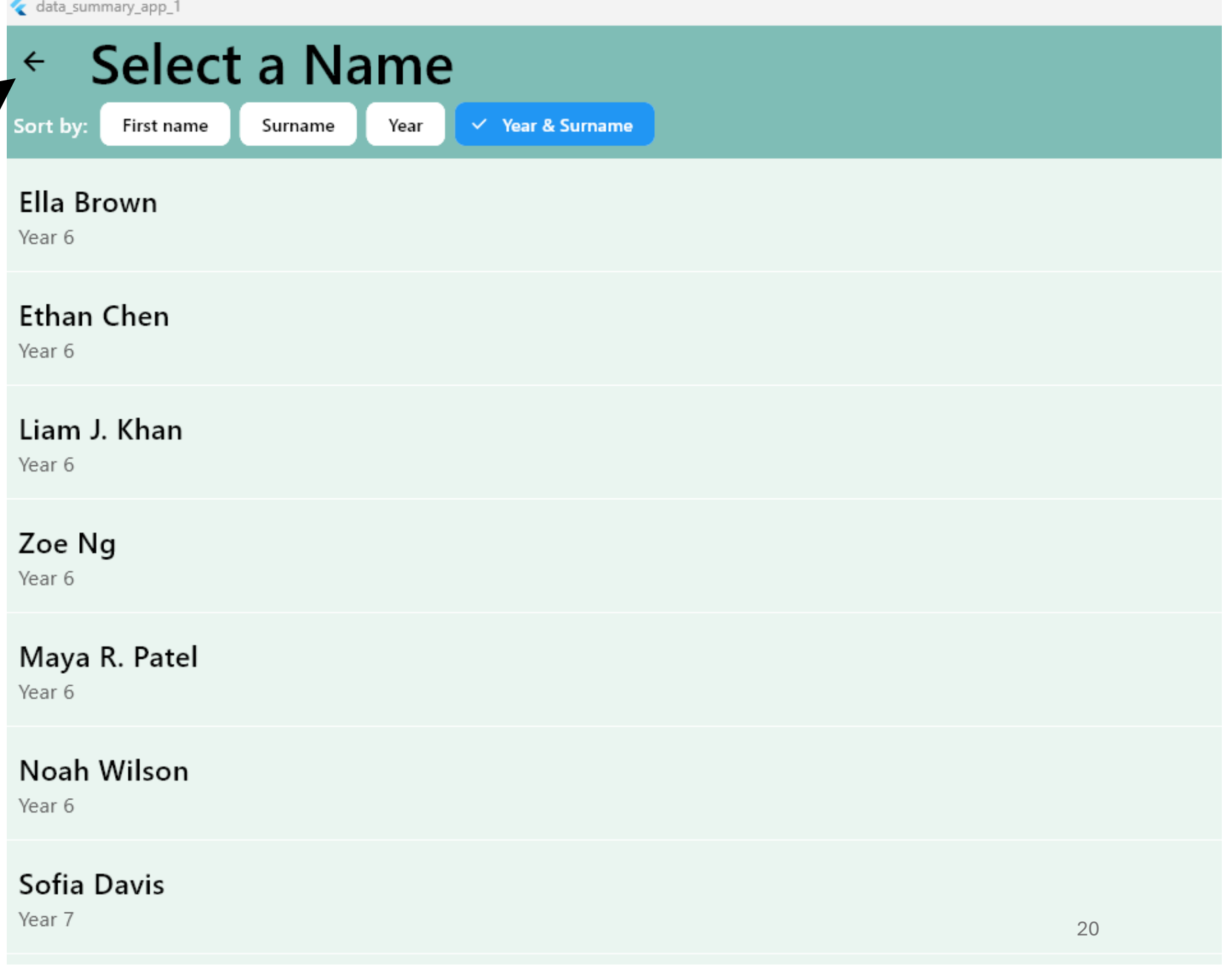
This chart shows the data for this individual averaged across their monitoring points for all measures captured by the MEOW app.

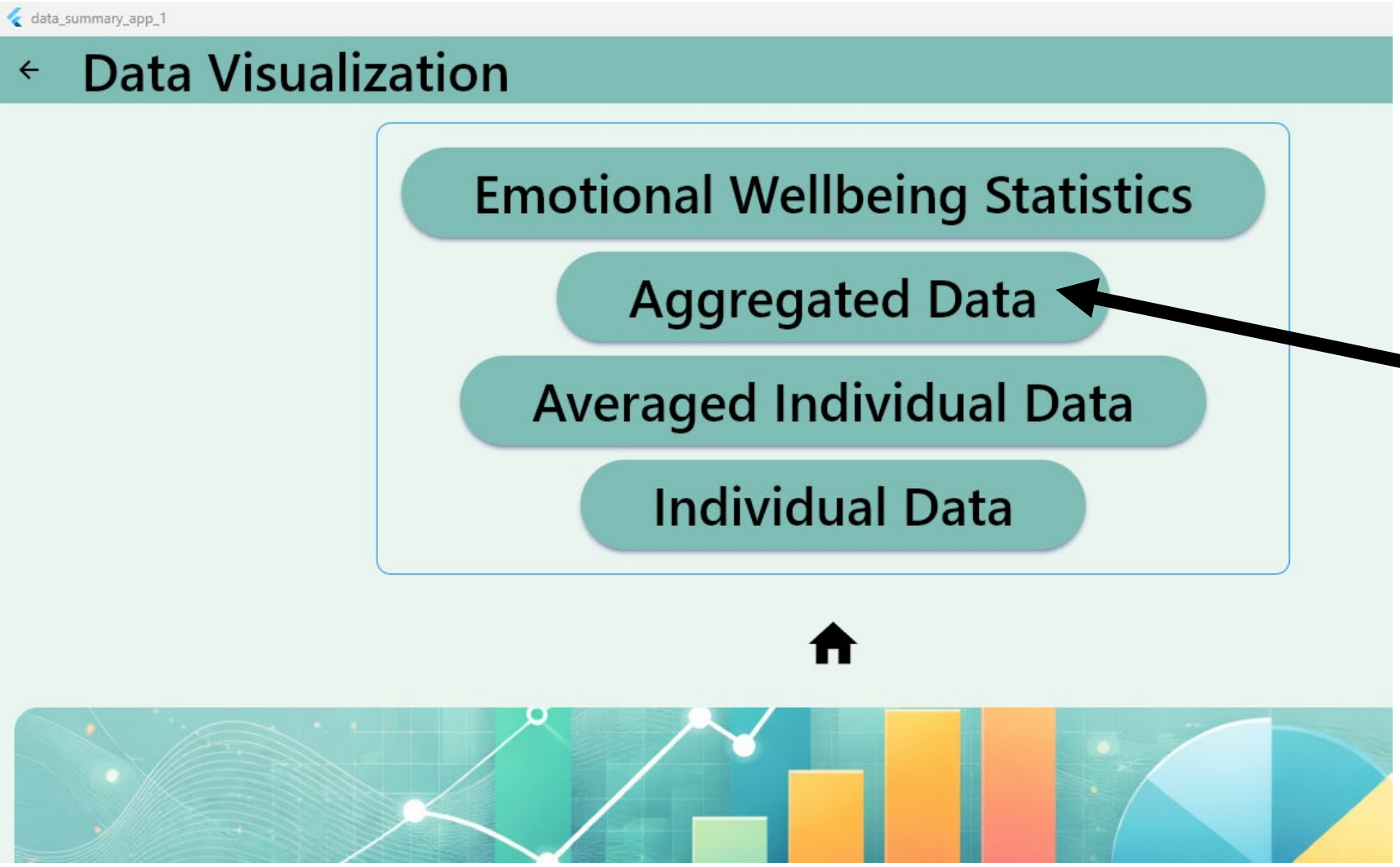
Note for the BEES (emotional wellbeing) their average score is above the low threshold line. Also note they are generally OK on all other measures as well.

This is an example of what data would look like for an individual who would not need any follow up.

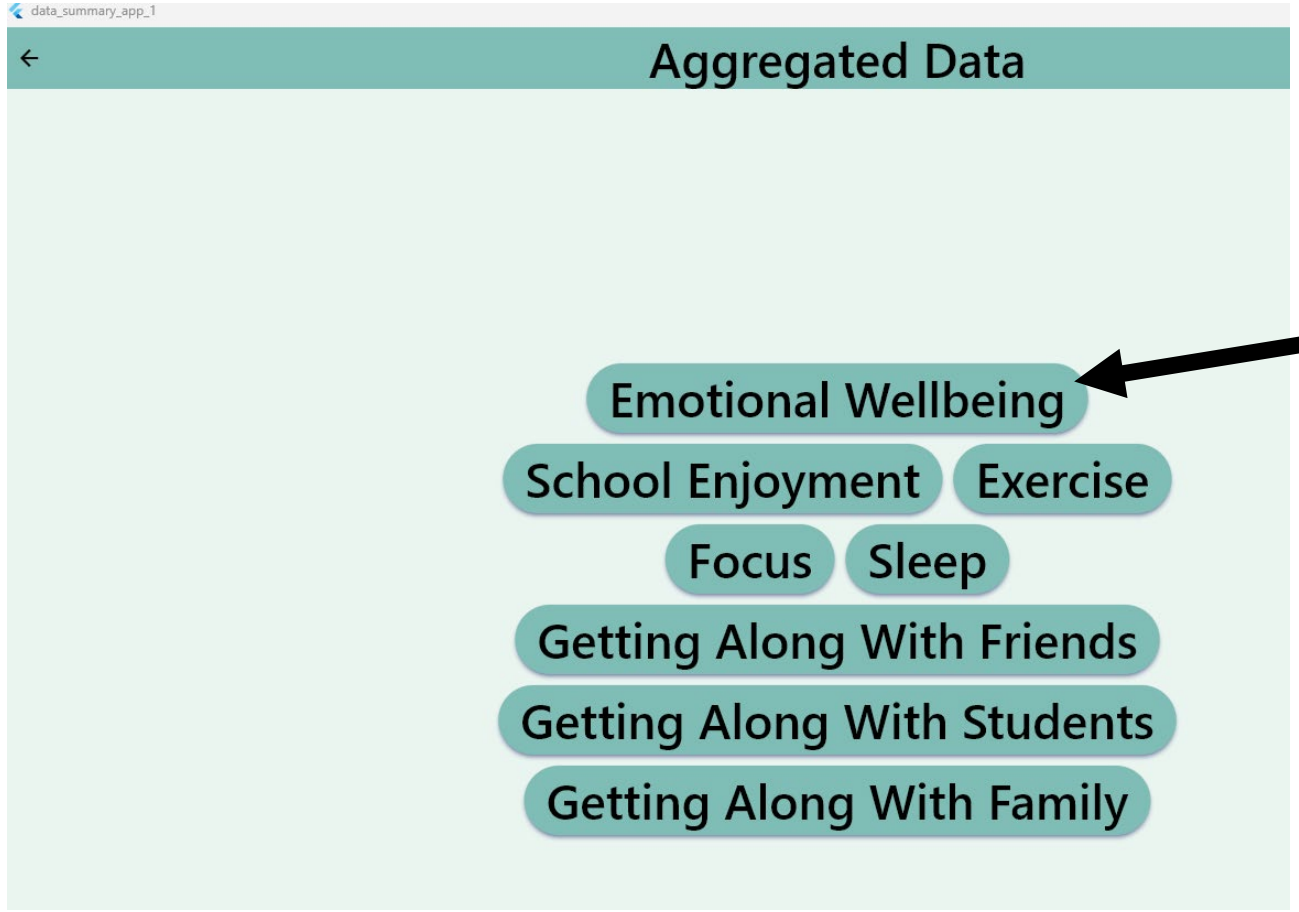


Click the back button again





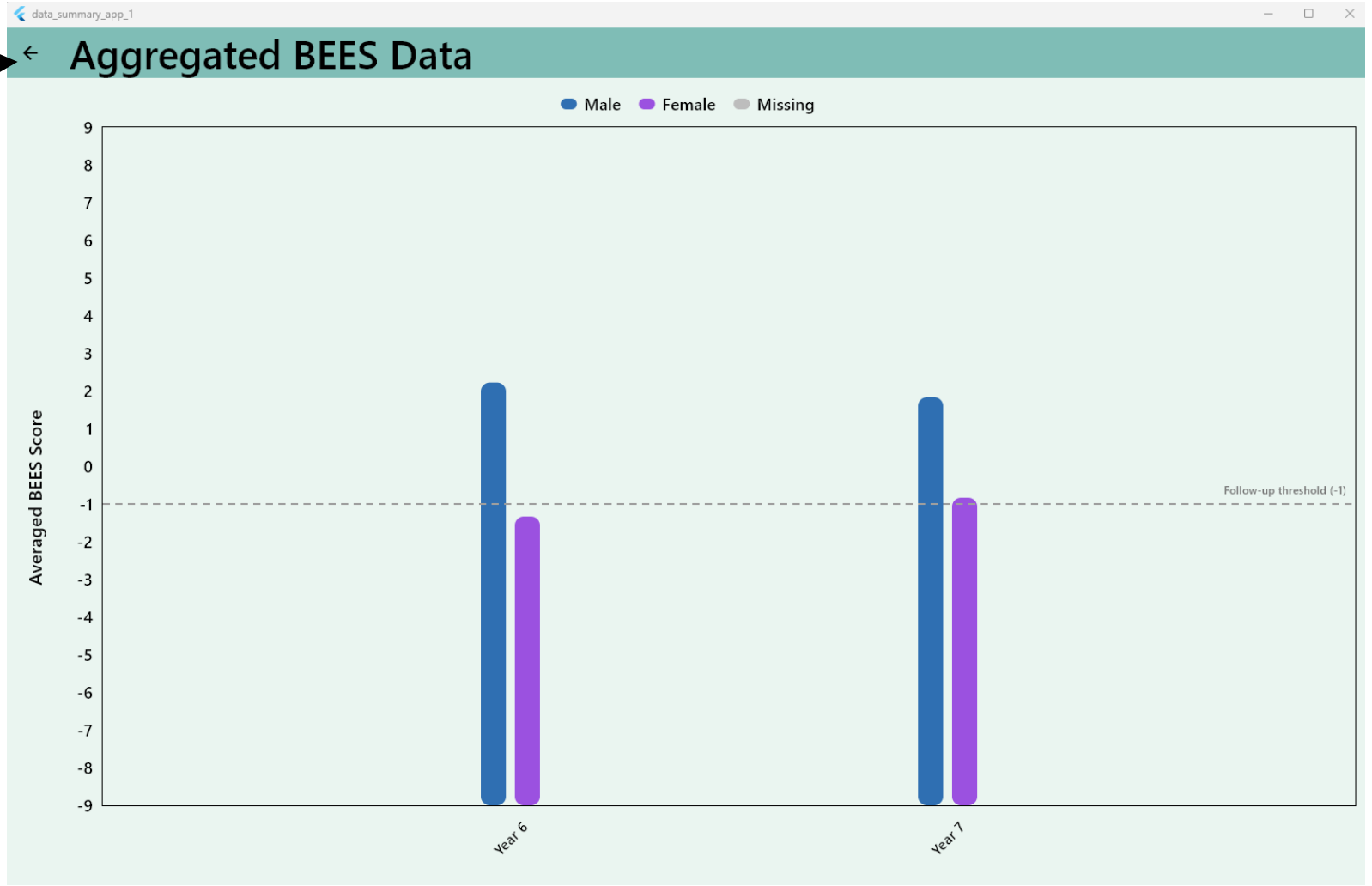
Click the 'Aggregated Data' button



Click the 'Emotional Wellbeing' button

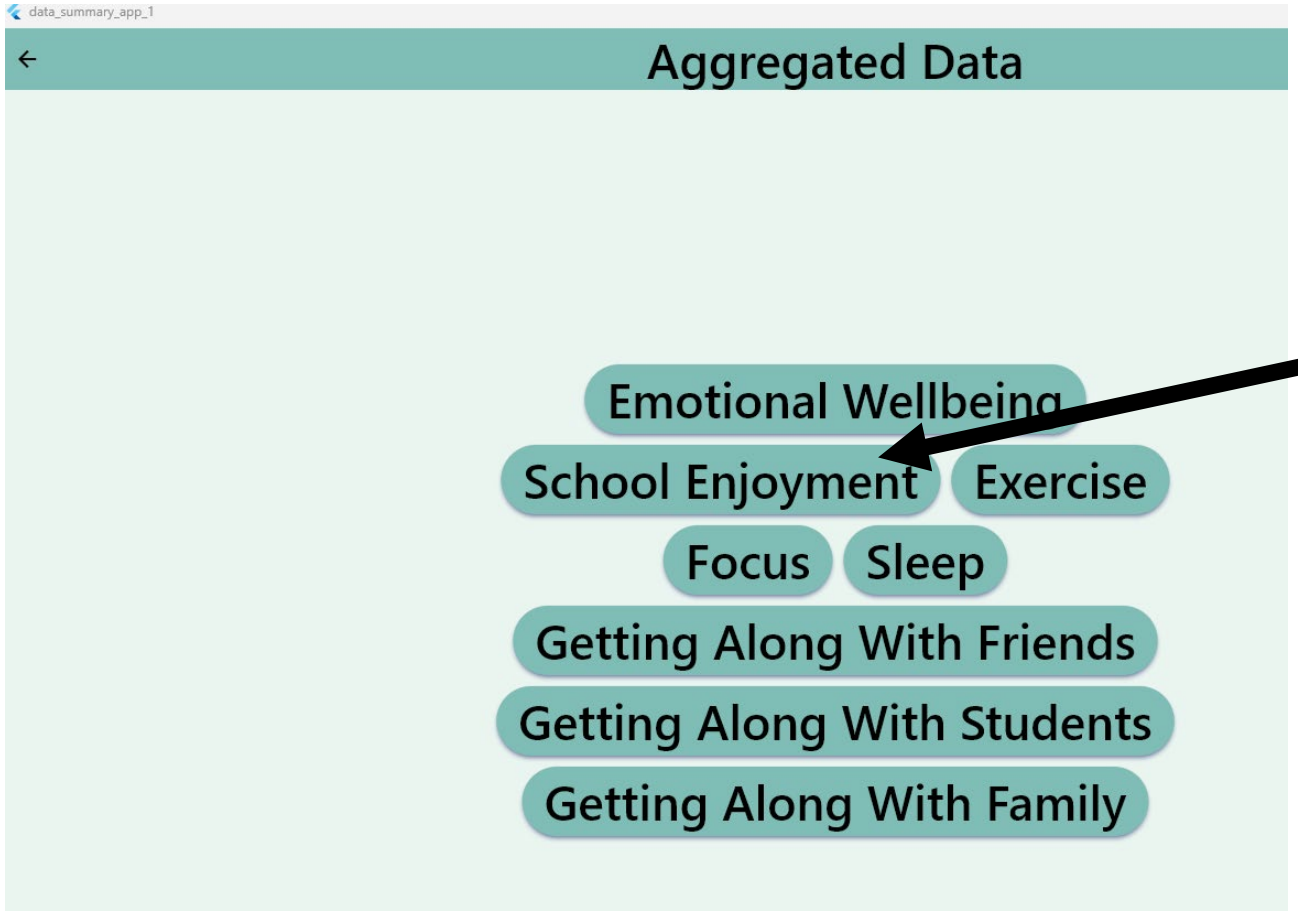
Like the Individual data charts, aggregated data can also be viewed for each of the measures collected by the MEOW app.

Click the back button



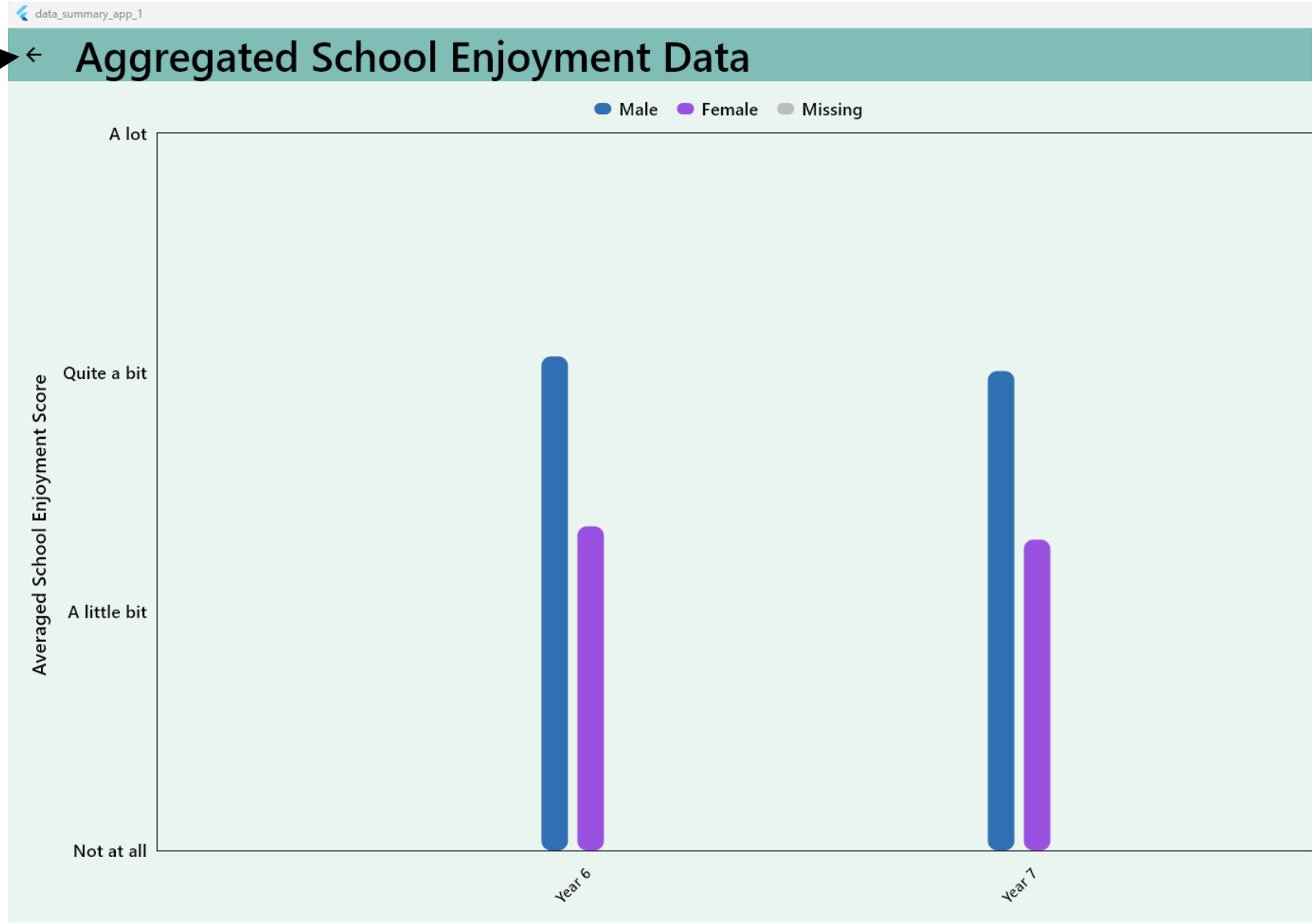
This chart shows averaged BEES (emotional wellbeing) scores for males and females across the different year groups.

In this example data the males have a higher mean than females across both years. This is consistent with what has been found in research using the BEES in schools.



Click the 'School Enjoyment' button

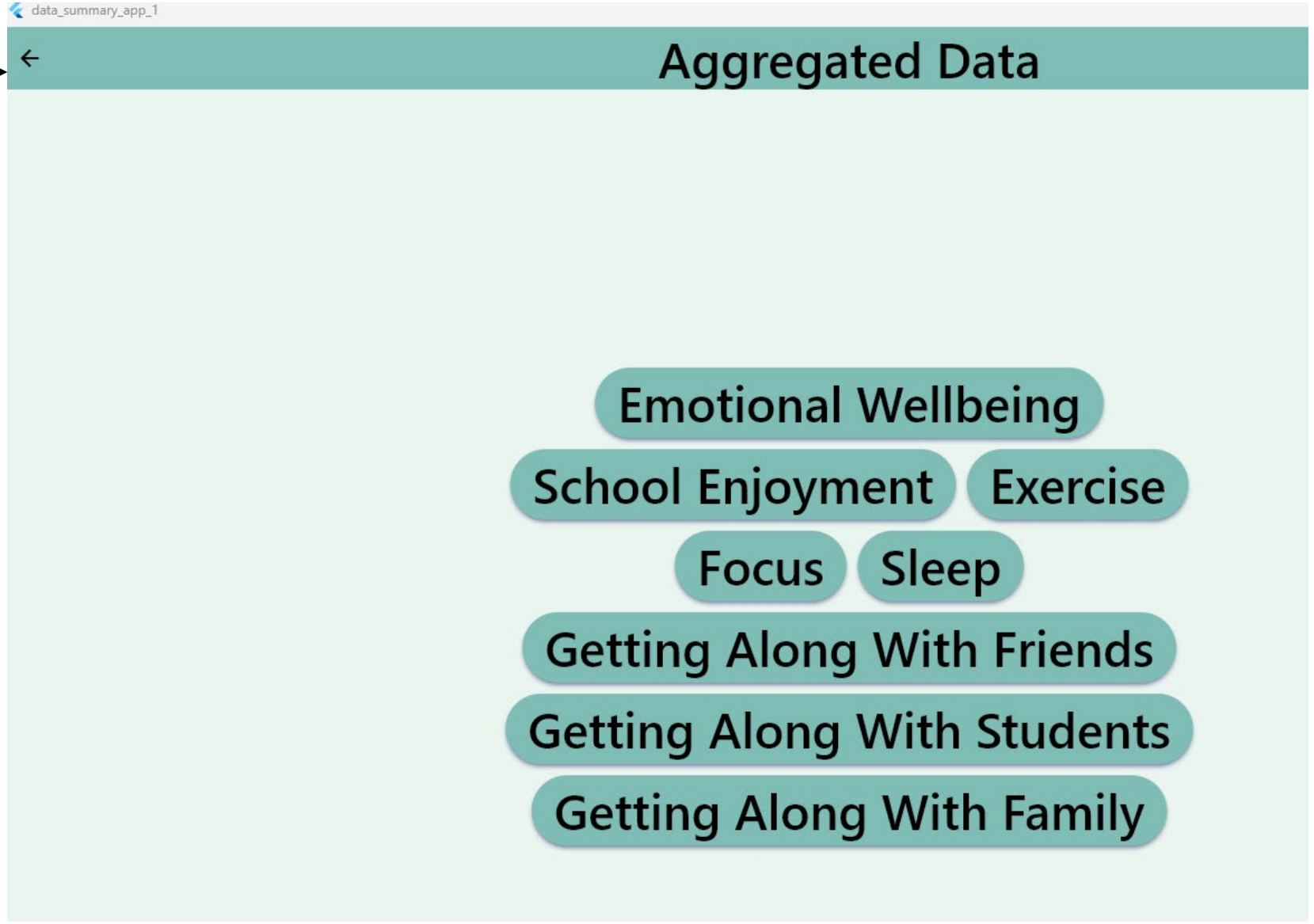
Click the back button

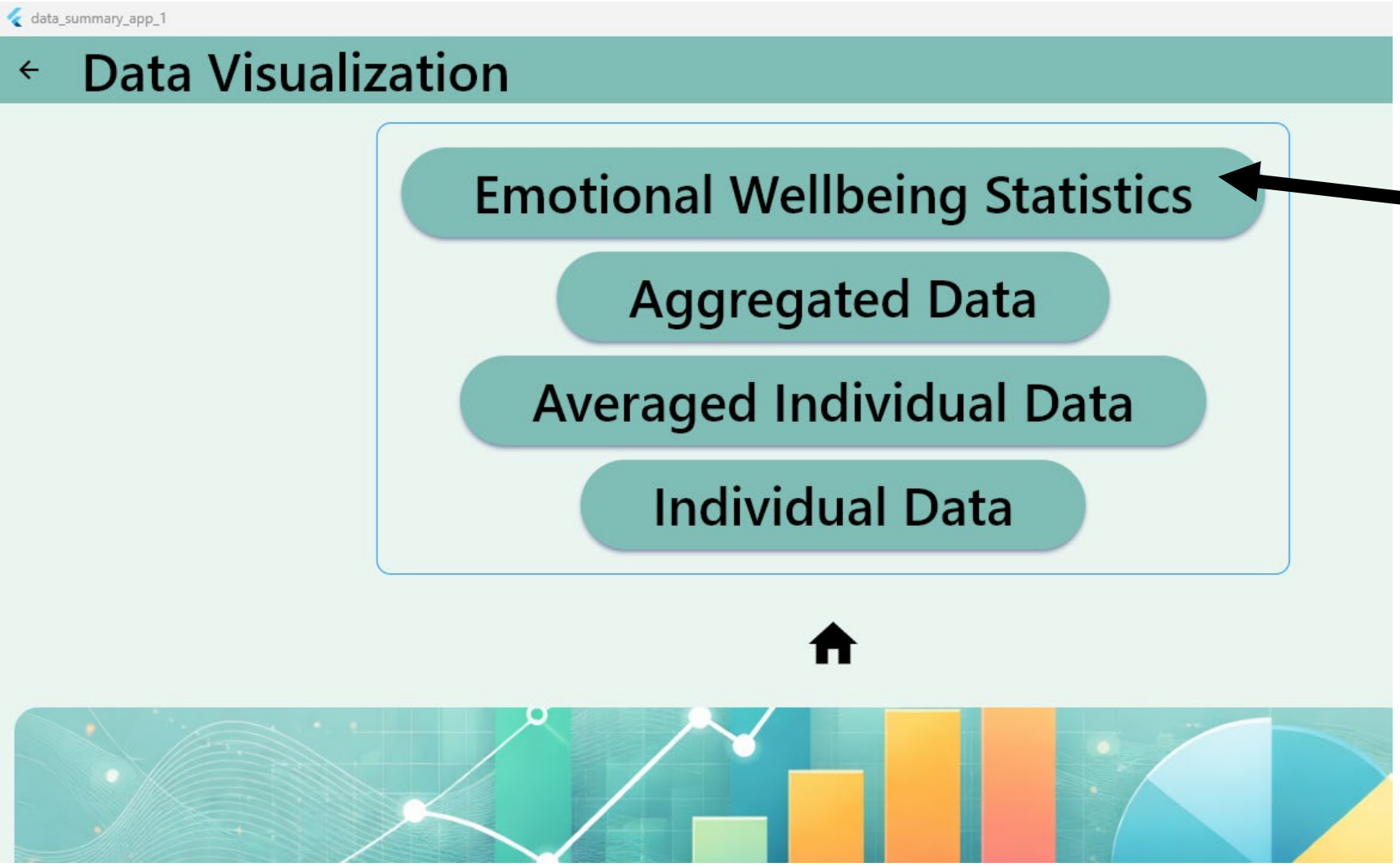


This chart shows averaged school enjoyment scores for males and females across the different year groups.

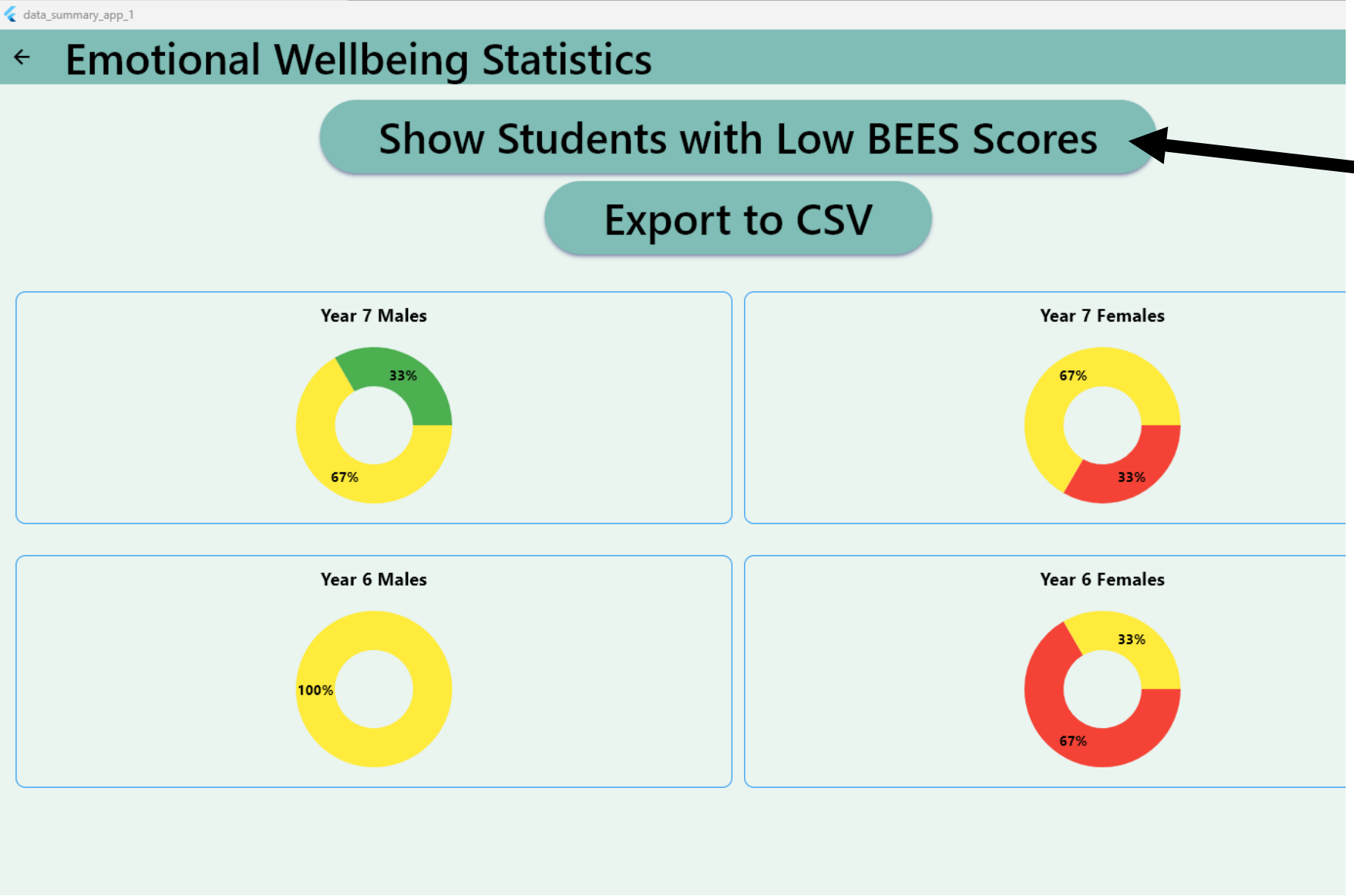
In this example data the males have a higher mean than females across both years. This is likely not representative of what would be seen in real data.

Click the back button again



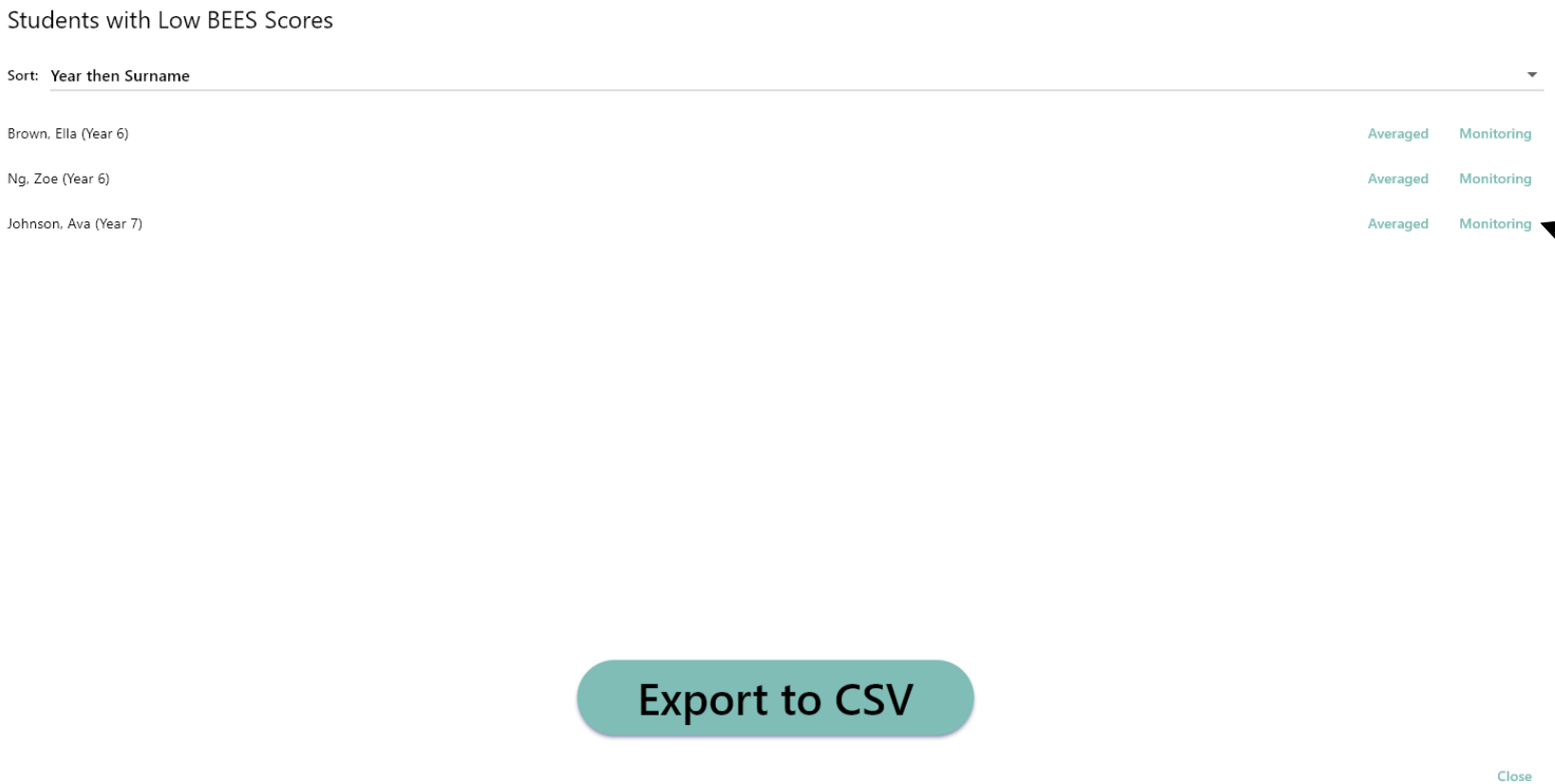


Click the 'Emotional Wellbeing Statistics' button



Click the 'Show students with low BEES scores' button

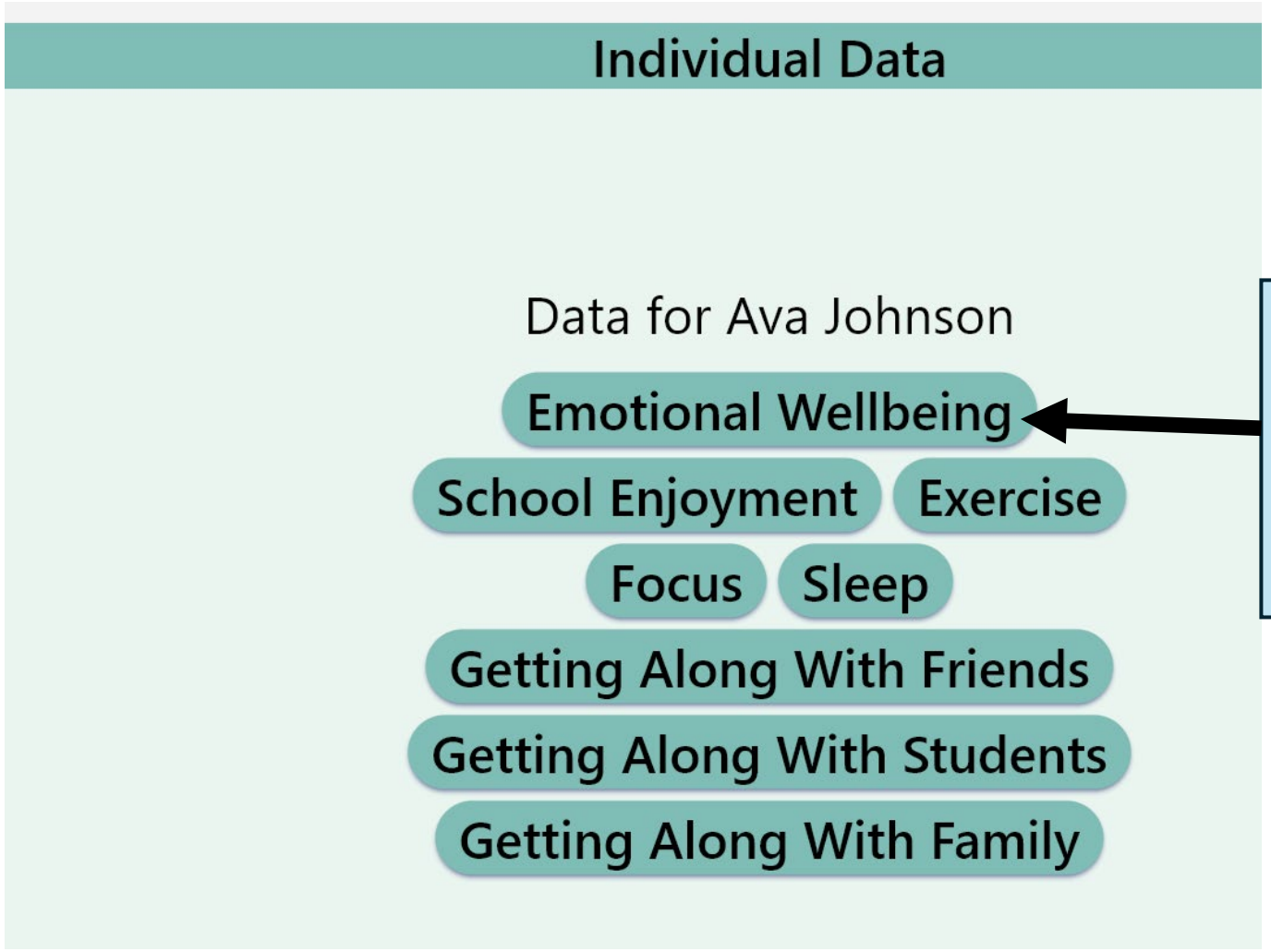
This chart shows the proportion of students that have high (green), moderate (yellow), or low (red) emotional wellbeing across year group and gender.



Click the ‘Monitoring’ button for student ‘Johnson, Ava’

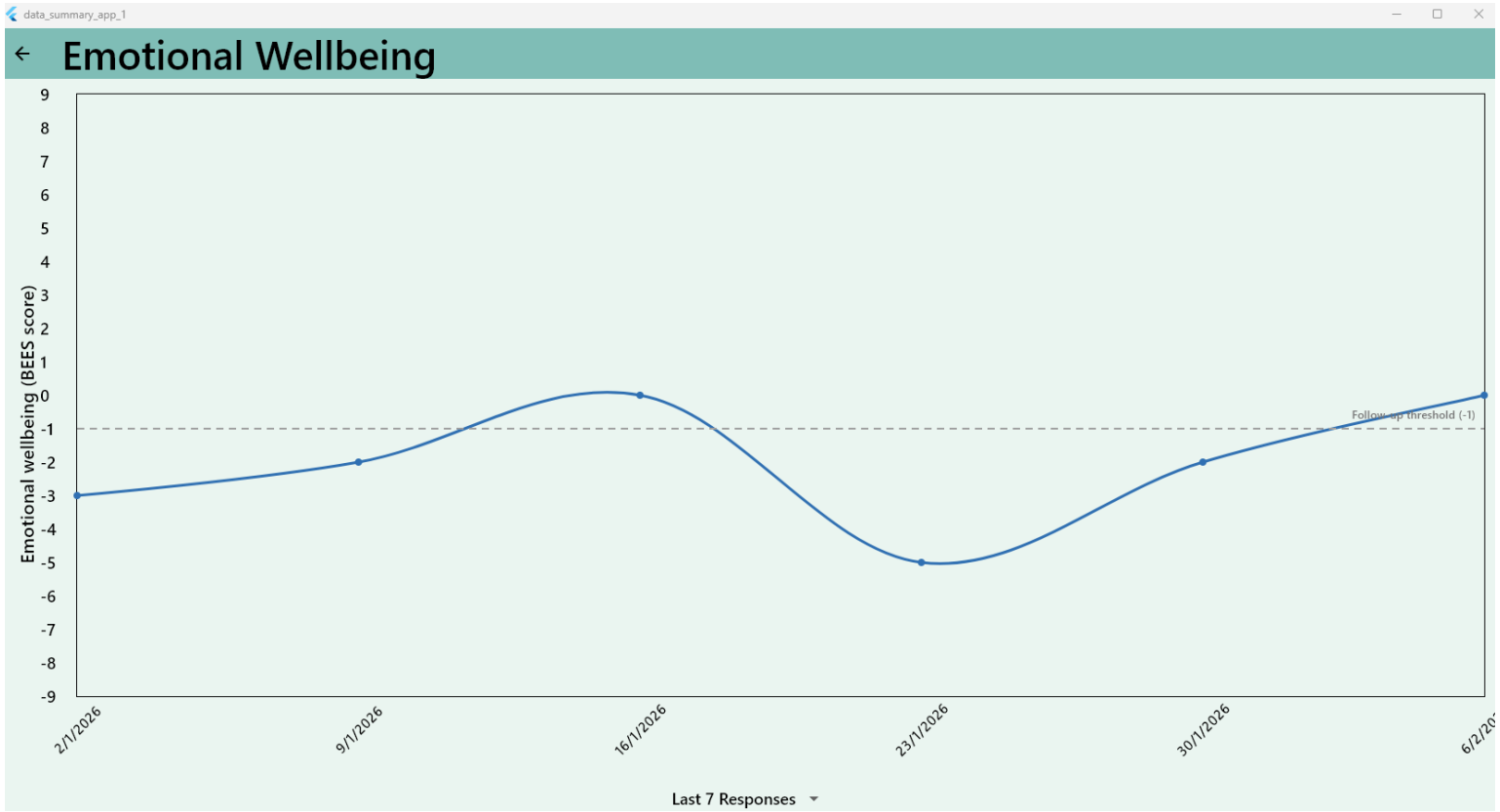
On this pop up page, only students that have average BEES scores below the low emotional wellbeing threshold are listed.

The user can take a closer look at the data for this individuals by clicking either the ‘Averaged’ button or the ‘Monitoring’ button for any particular student.



Click the 'Emotional Wellbeing' button

The user gets linked to the individual data page for that student, which is something we looked at earlier for student Ella Brown.



Here is the longitudinal monitoring data for example student Ava Johnson. Note that their score fluctuates above and below the threshold over time.

It would be up to the school whether this student requires follow up.

By looking over the data of individual students more informed decisions can be made about whether or not to follow up with a student. Here we have charts for example students Zoe Ng (on the right) and Ella Brown (on the left). Note how Zoe's average BEES score is only just below the threshold, whereas Ella is further below. Over the monitoring period Zoe's score hovers around the threshold line, whereas Ella is consistently below. Also, Ella's average scores on other metrics are all quite low, whereas Zoe's are not particularly high, but neither particularly low either. While Ella would be a clear follow up case, Zoe is a borderline case that may or may not be followed up with depending on school resources, and further knowledge of the student.