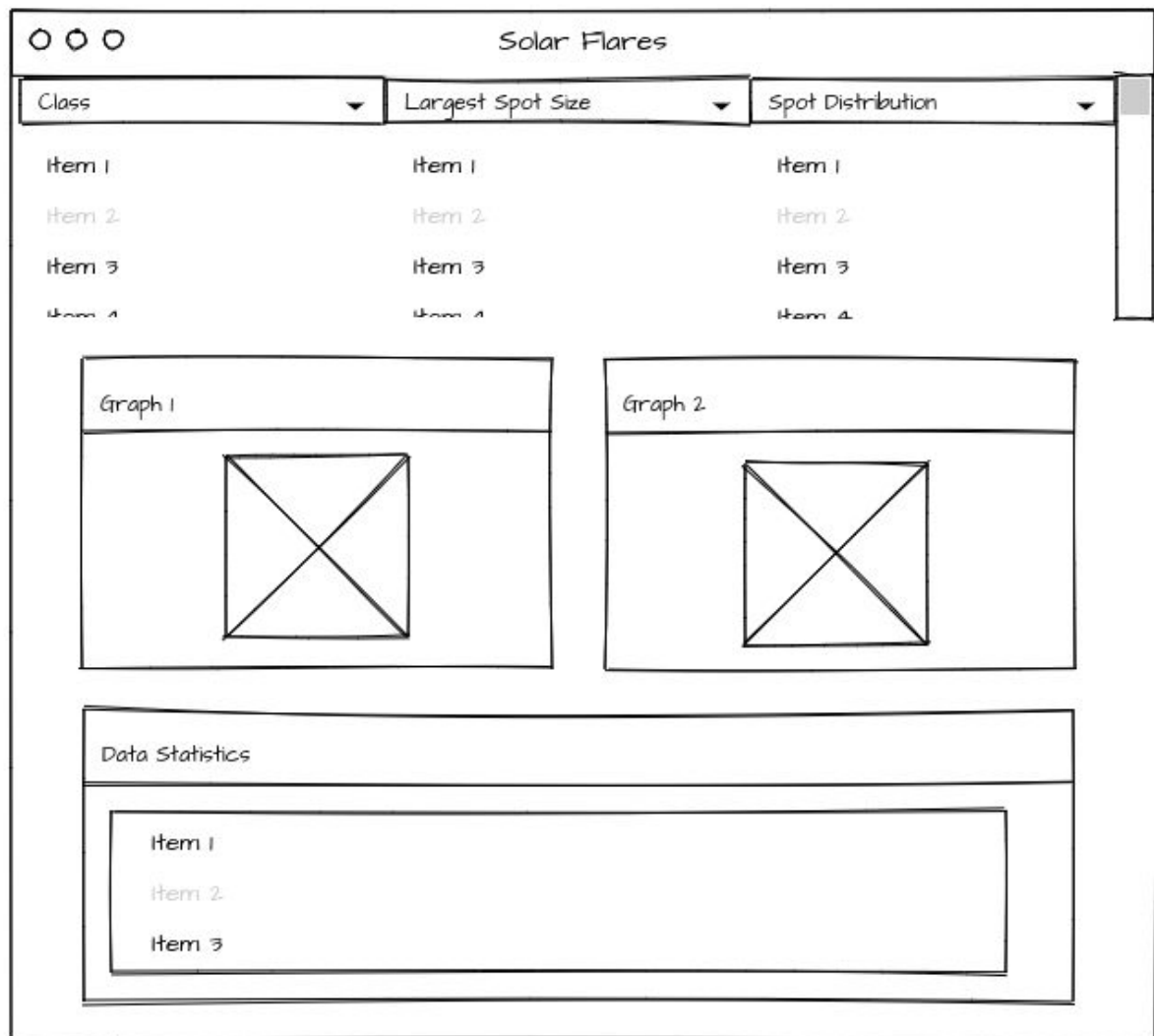


**Team Project: APP** Team data science app building project. Team sizes of maximum three people are allowed. Your proposal should include the following:

- The kind of app you want to build
  - We are going to build a program to view solar flare information based on data attributes that describe solar flare features over a 24 hour period



- The kind of data you want to apply your app to with some basic summary statistics
  - We plan to use solar flare data from this dataset on the UCI Machine Learning Repository <https://archive.ics.uci.edu/ml/datasets/Solar+Flare>

	class	size	distribution	activity	evolution	previous_24_hours	historical_complexity	become_complex	area	area_of_largest_spot
count	323.000000	323.000000	323.000000	323.000000	323.000000	323.000000	323.000000	323.000000	323.000000	323.000000
mean	1.027864	1.755418	1.027864	1.027864	1.755418	1.027864	1.755418	0.021672	0.021672	0.021672
std	0.164838	0.430506	0.164838	0.164838	0.430506	0.164838	0.430506	0.145836	0.145836	0.145836
min	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	0.000000	0.000000	0.000000
25%	1.000000	2.000000	1.000000	1.000000	2.000000	1.000000	2.000000	0.000000	0.000000	0.000000
50%	1.000000	2.000000	1.000000	1.000000	2.000000	1.000000	2.000000	0.000000	0.000000	0.000000
75%	1.000000	2.000000	1.000000	1.000000	2.000000	1.000000	2.000000	0.000000	0.000000	0.000000
max	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	2.000000	1.000000	1.000000	1.000000

	class	size	distribution	activity	evolution	previous_24_hours	historical_complexity	become_complex	area	area_of_largest_spot
count	1066.0	1066.000000	1066.0	1066.0	1066.0	1066.0	1066.0	1066.000000	1066.000000	1066.000000
mean	1.0	2.401501	1.0	1.0	1.0	1.0	1.0	0.005629	0.005629	0.005629
std	0.0	0.620584	0.0	0.0	0.0	0.0	0.0	0.086487	0.086487	0.086487
min	1.0	1.000000	1.0	1.0	1.0	1.0	1.0	0.000000	0.000000	0.000000
25%	1.0	2.000000	1.0	1.0	1.0	1.0	1.0	0.000000	0.000000	0.000000
50%	1.0	2.000000	1.0	1.0	1.0	1.0	1.0	0.000000	0.000000	0.000000
75%	1.0	3.000000	1.0	1.0	1.0	1.0	1.0	0.000000	0.000000	0.000000
max	1.0	3.000000	1.0	1.0	1.0	1.0	1.0	2.000000	2.000000	2.000000

- 
- A list of the responsibilities of each of the team members

Austin	Samuel
GUI backend	Graphs
Listing all data in GUI	Find unique statistic information
List sorting	Presenting statistics in GUI
Debugging	Debugging

- A list of milestones
  - Day 1: Project Plan
  - Day 5: Initial GUI layout implemented
  - Day 8: Data is viewable in the GUI, basic functionality
  - Day 11: Fully functioning GUI with some bugs
  - Day 14: Fully functioning GUI with no bugs or errors
- The basic technology you want to use for your project
  - We will be using python for backend processing and Tkinter for the application front end.

Final Product:

This app is intended to display solar flare data the data you can currently see is class, size, distribution, activity evolution, previous 24 hours, historical complexity, became complex, area of largest spot, number of C-class, M-class, and X-class flares.

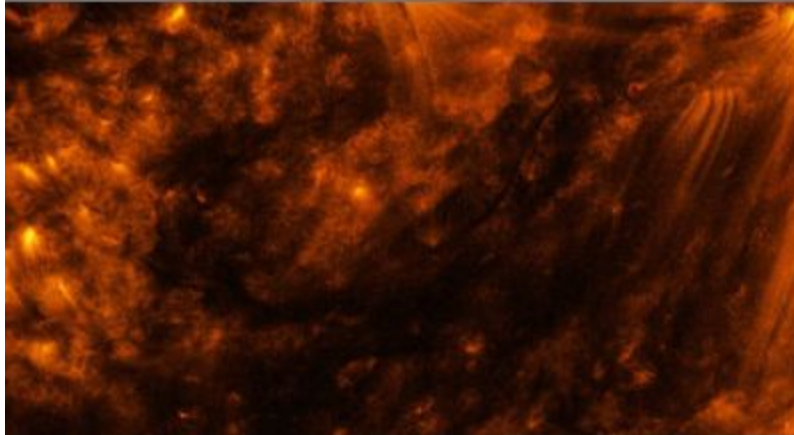
Within the solar flare information tab we have the direct list of data available for the flare. The app also contains pie charts of each value, with a data statistics page as well.

## Solar Flares

Solar Flare Information

Graphs

Data Statistics



This app is intended to display solar flare data the data you can currently see is class, size, distribution, activityevolution, previous 24 hours, historical compeity, became complex, areaarea of largest spot, number of C-class, M-class, and X-class flares.

Within the solar flare information tab we have the direct list of data available for the flare.The app also contains pie charts of each value, with a data statistics page aswell.

Class	Size	Distribution	Activity	Evolution	Previous_24_Hours	^
C	S	O	1	2	1	
D	S	O	1	2	1	
C	S	O	1	1	1	
D	S	O	1	2	1	
D	A	O	1	2	1	
D	A	O	1	2	1	
D	A	O	1	1	1	
D	A	O	1	2	1	
D	K	O	1	2	1	
C	R	O	1	1	1	
B	X	O	1	1	1	
D	S	O	1	1	1	
C	H	I	1	2	1	
D	R	O	1	1	1	
B	X	O	1	1	1	
B	X	O	1	1	1	
D	K	I	1	2	1	
D	S	O	1	2	1	
D	R	O	1	1	1	

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Go back to start page

This app is intended to display solar flare data the data you can currently see is class, size, distribution, activity, evolution, previous 24 hours, historical complexity, became complex, area of largest spot, number of C-class, M-class, and X-class flares.

Within the solar flare information tab we have the direct list of data available for the flare. The app also contains pie charts of each value, with a data statistics page as well.

Go back to start page

Get Class

Get Size

Get Distribution

Get activity

Get evolution

Get previous\_24\_hours

Get historical\_complexity

Get become\_complex

Get area

Get area\_of\_largest\_spot

Get cClassFlares

Get mClassFlares

Get xClassFlares

This app is intended to display solar flare data the data you can currently see is class, size, distribution, activityevolution, previous 24 hours, historical compexity, became complex, areaarea of largest spot, number of C-class, M-class, and X-class flares.

Within the solar flare information tab we have the direct list of data available for the flare.The app also contains pie charts of each value, with a data statistics page aswell.

	Activity	Evolution	
count	323.0	323.0	3
mean	1.0278637770897834	1.7554179566563468	1
std	0.16483782738194486	0.43050605270505493	0
min	1.0	1.0	1
25%	1.0	2.0	1
50%	1.0	2.0	1
75%	1.0	2.0	1
max	2.0	2.0	2

[Go back to start page](#)

Flare Class: 6

This app is intended to display solar flare data the data you can currently see is class, size, distribution, activity, evolution, previous 24 hours, historical complexity, became complex, area of largest spot, number of C-class, M-class, and X-class flares.

Within the solar flare data tab we have the direct list of data available for the flare. The app also contains pie charts of each value, with a data statistics page as well.

Go back to start page

Class

1

Size

1

Distribution

1

Activity

1

Evolution

1

Previous 24 Hours

1

historical\_complexity

1

become\_complex

1

area

1

area\_of\_largest\_spot

1

cClassFlares

1

mClassFlares

1

xClassFlares

1

Predict