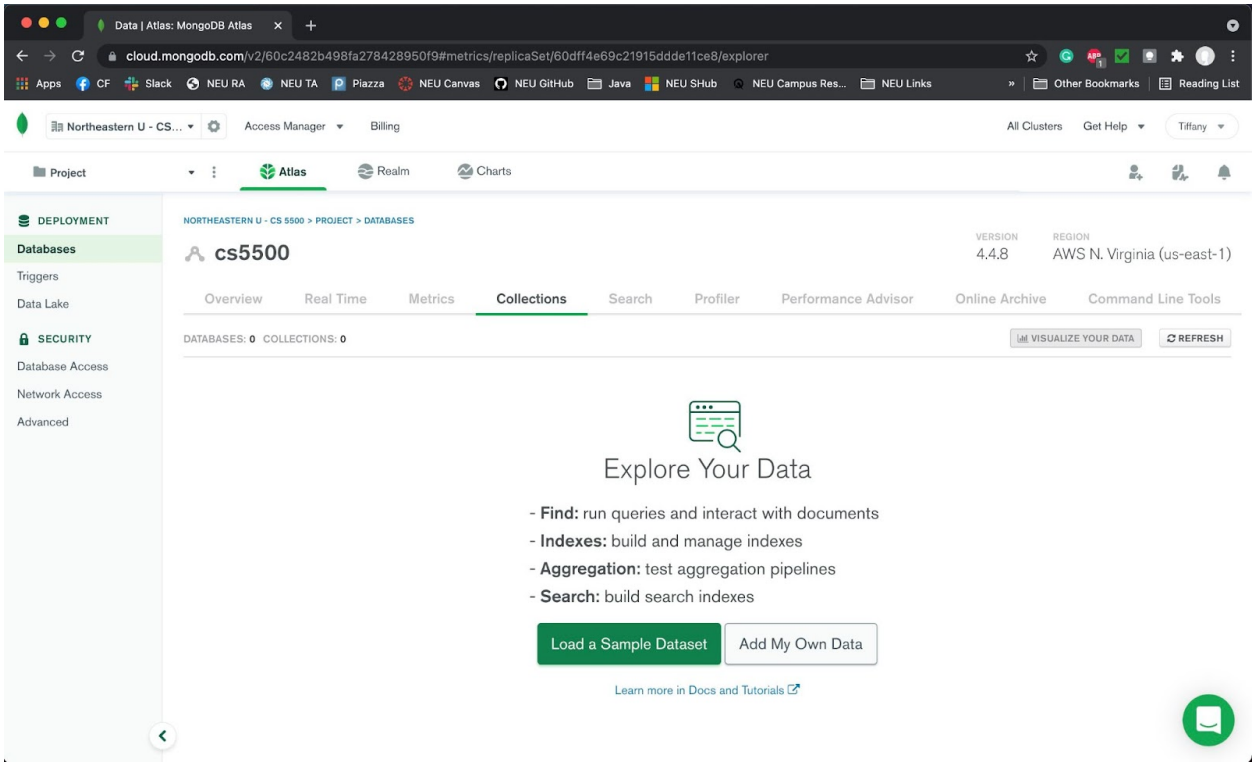
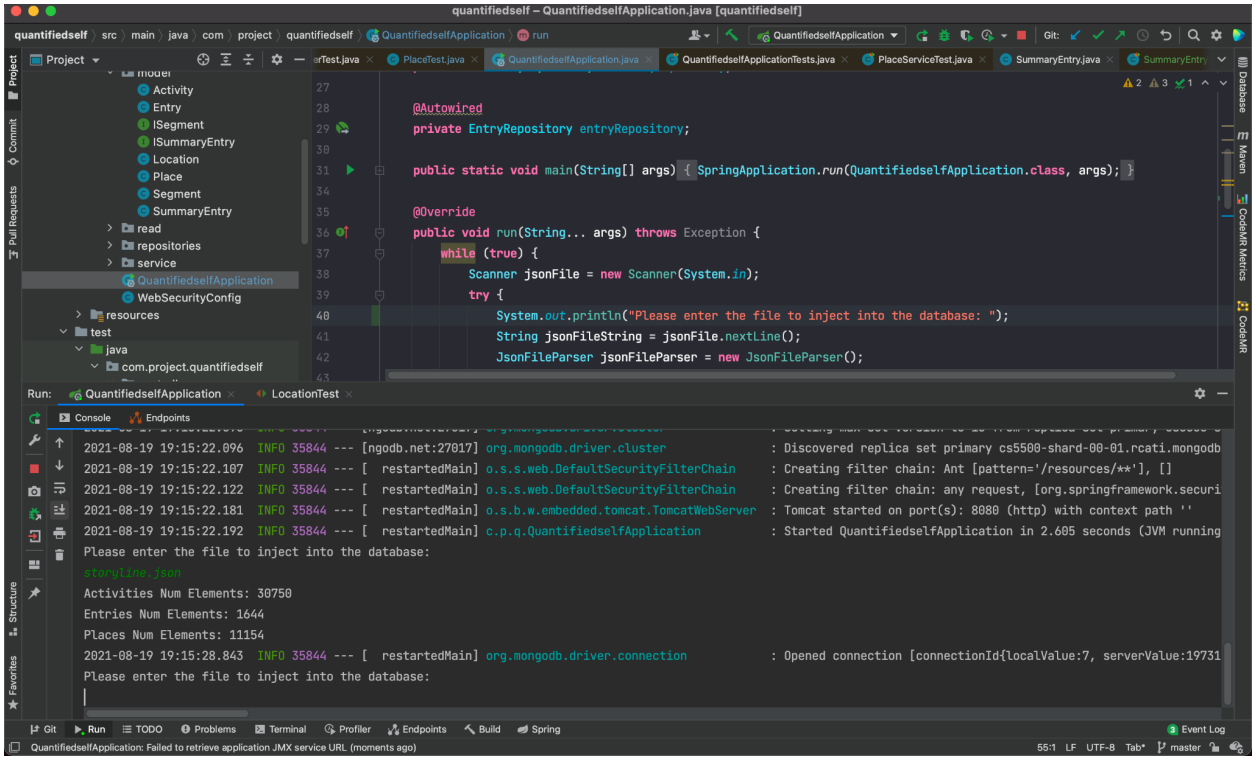
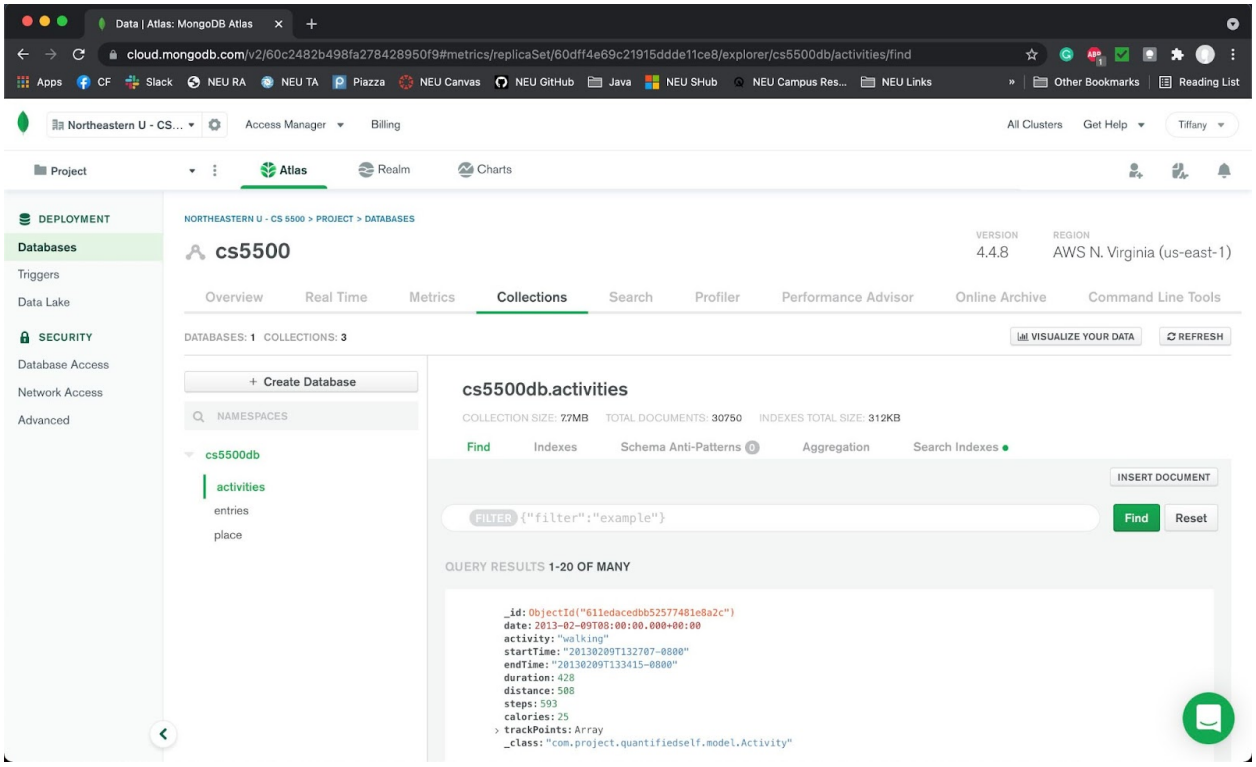


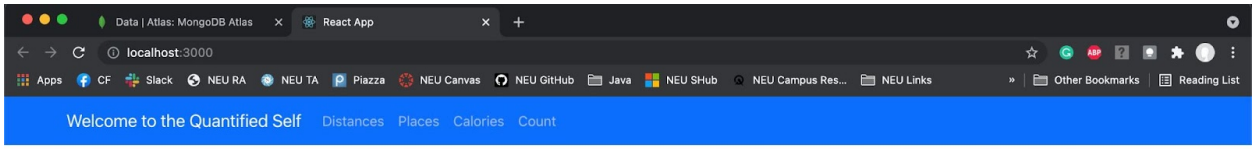
We utilized MongoDB Atlas which will allow the user or client for easy deployment of the web application in the future. In the above, it is an empty cloud database and this displays the beginning state of the web application.



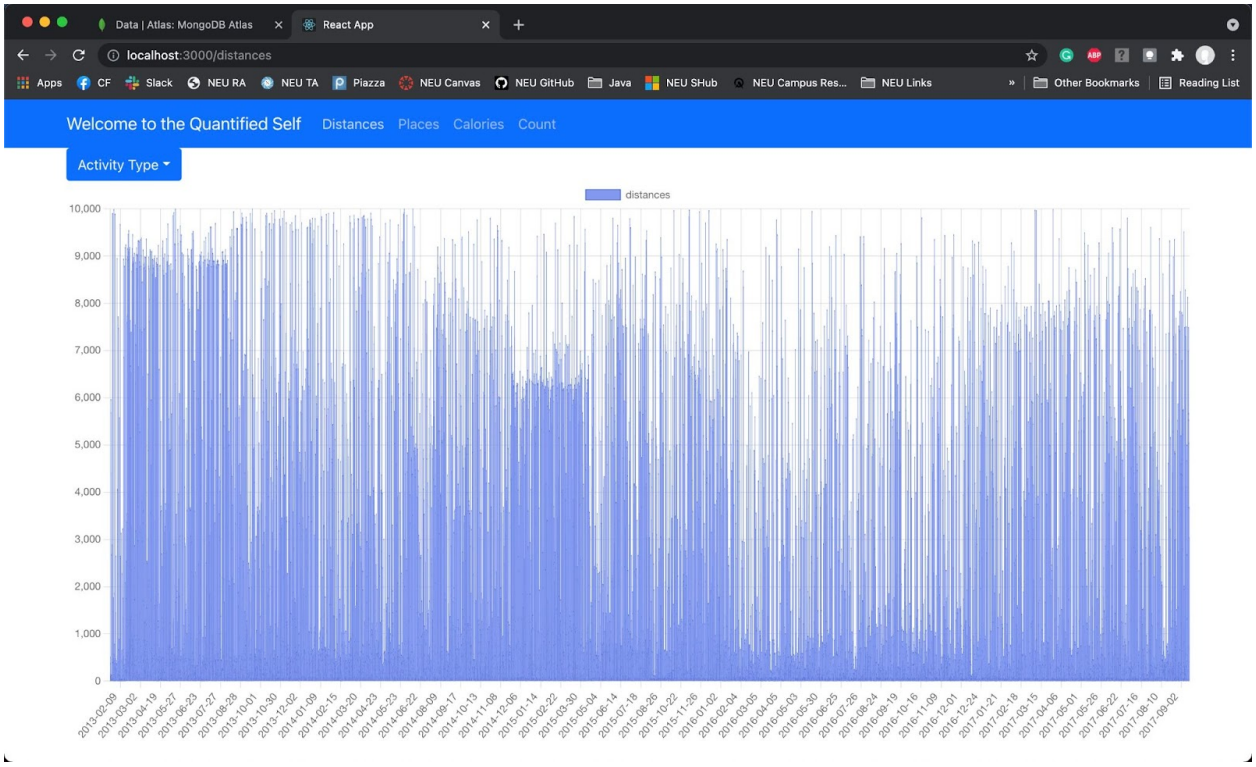
The above screenshot displays the QuantifiedSelfApplication running and the area available for the user to enter the file name. The user can only upload the file once and if the file name is incorrect the user will continue to be prompted for the correct file name.



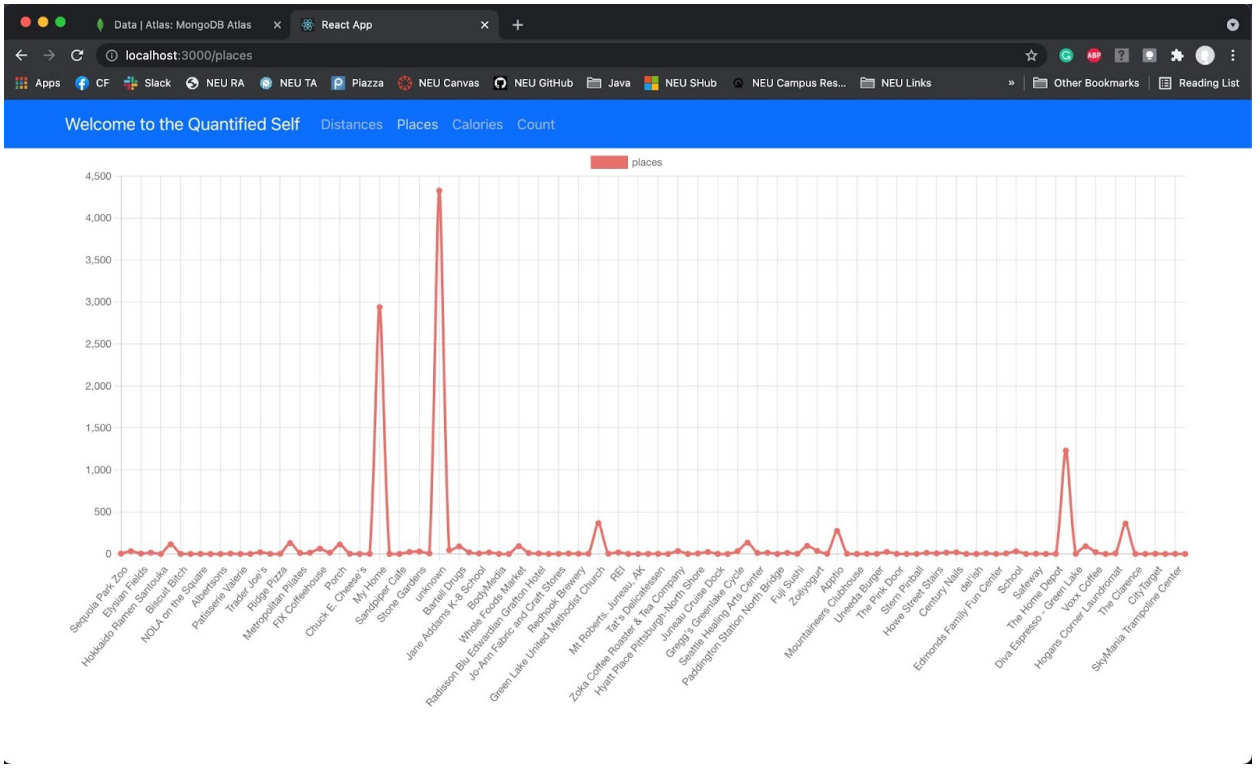
The above screenshot displays the successful upload of the file data to the MongoDB Cloud Atlas. This upload is divided into three collections, activities, entries, and place with its respective attributes.



The above displays our web application home screen. Above, on the navigation bar, there are hyperlinks that will direct the user to the visualization web pages and table when clicked.

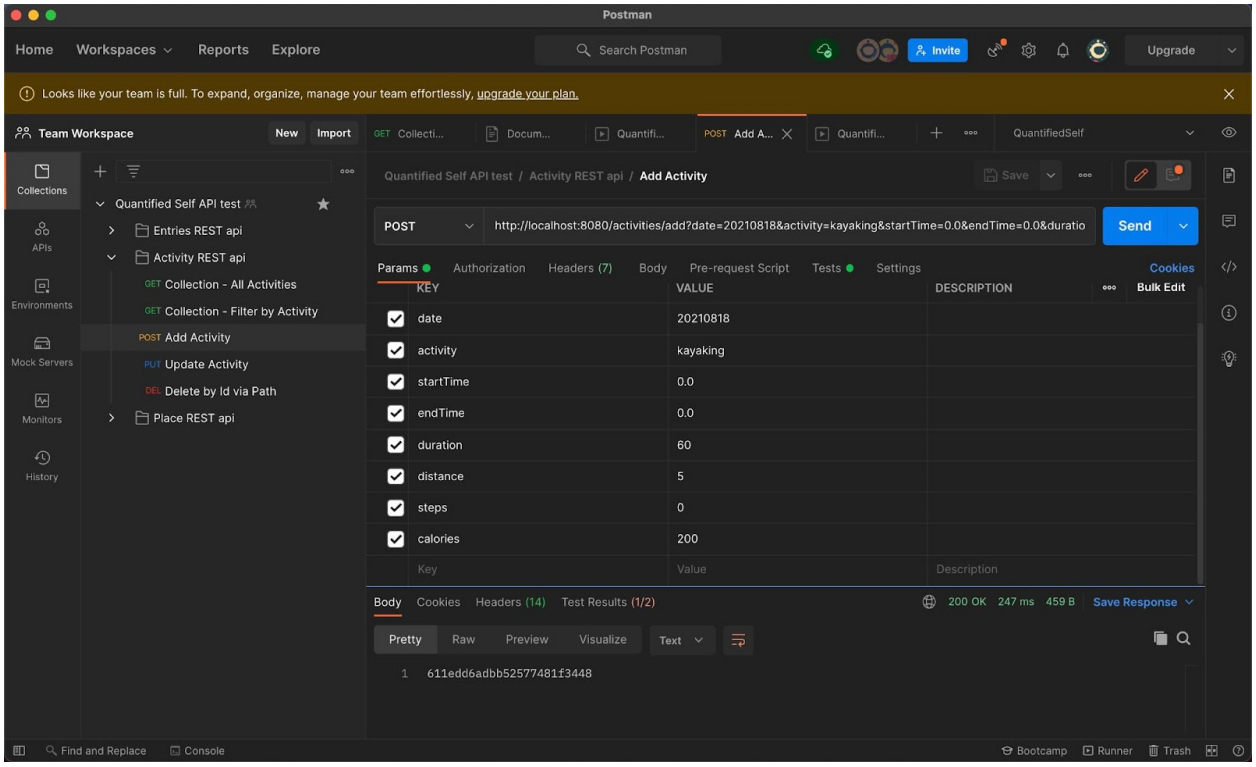


The above is a result of when ‘Distances’ on the navigation bar is clicked. The bar graph above shows the total distances across all activities for each date. There is an added feature that allows the data to be filtered by activity type such as walking, running, or bus. This graph has CRUD features. When adding, updating, or deleting you will see the graph change accordingly.

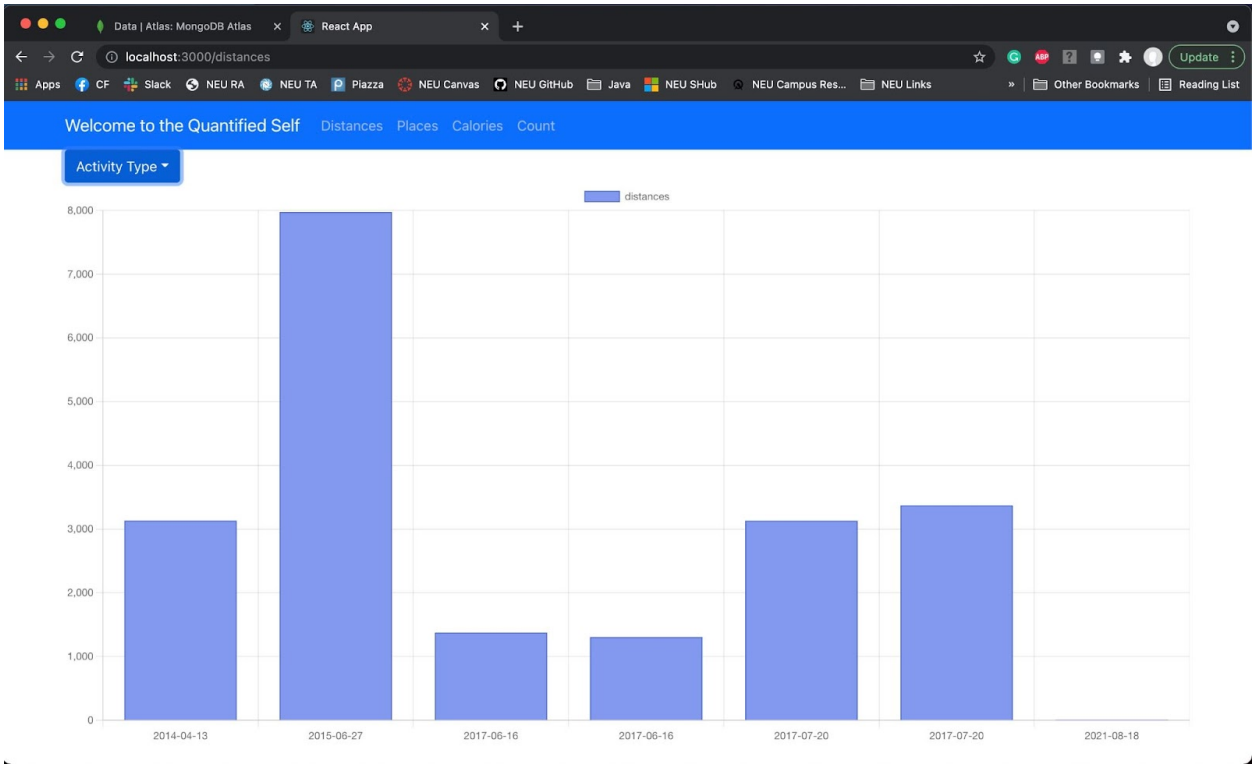


The above graph is a line graph that represents the number of times a place was visited. This graph has CRUD features. When adding, updating, or deleting you will see the graph change accordingly.

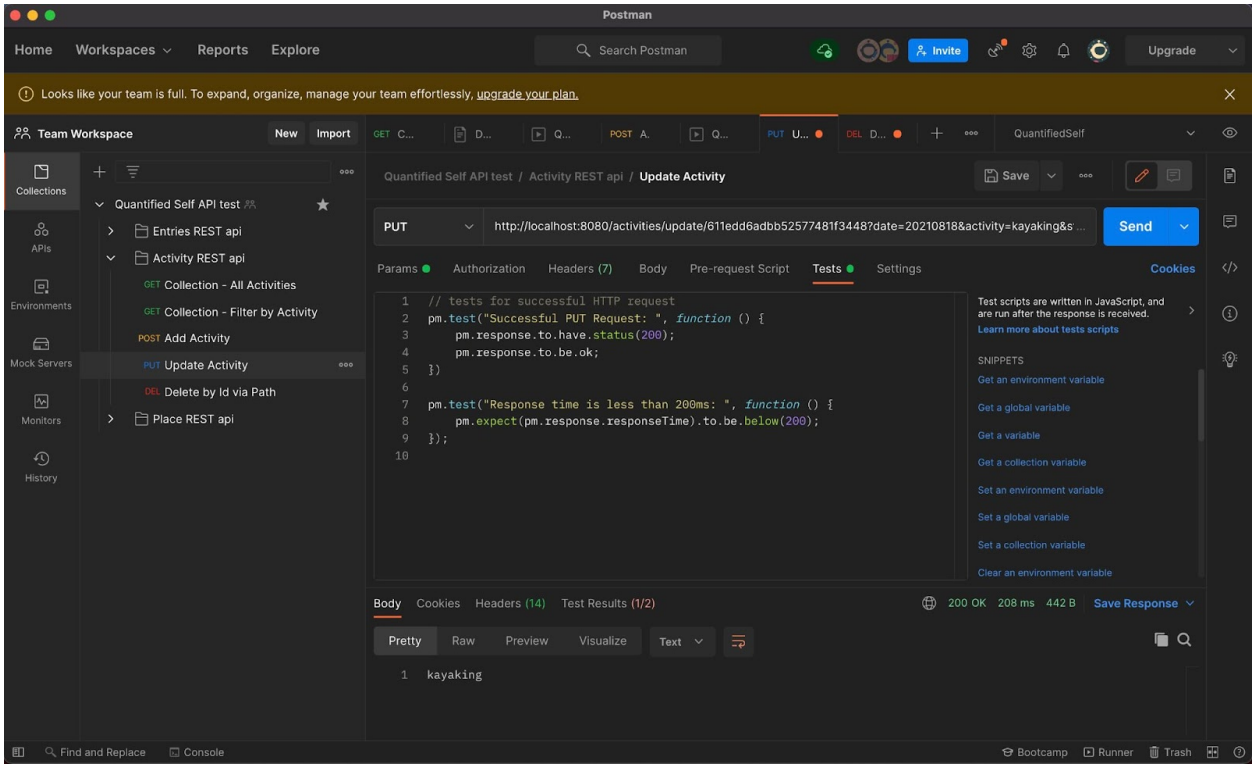
The bar graph above shows the total amount of calories burned for each activity for a given year. In the left corner, this graph has the capability to be filtered based on the year selected.



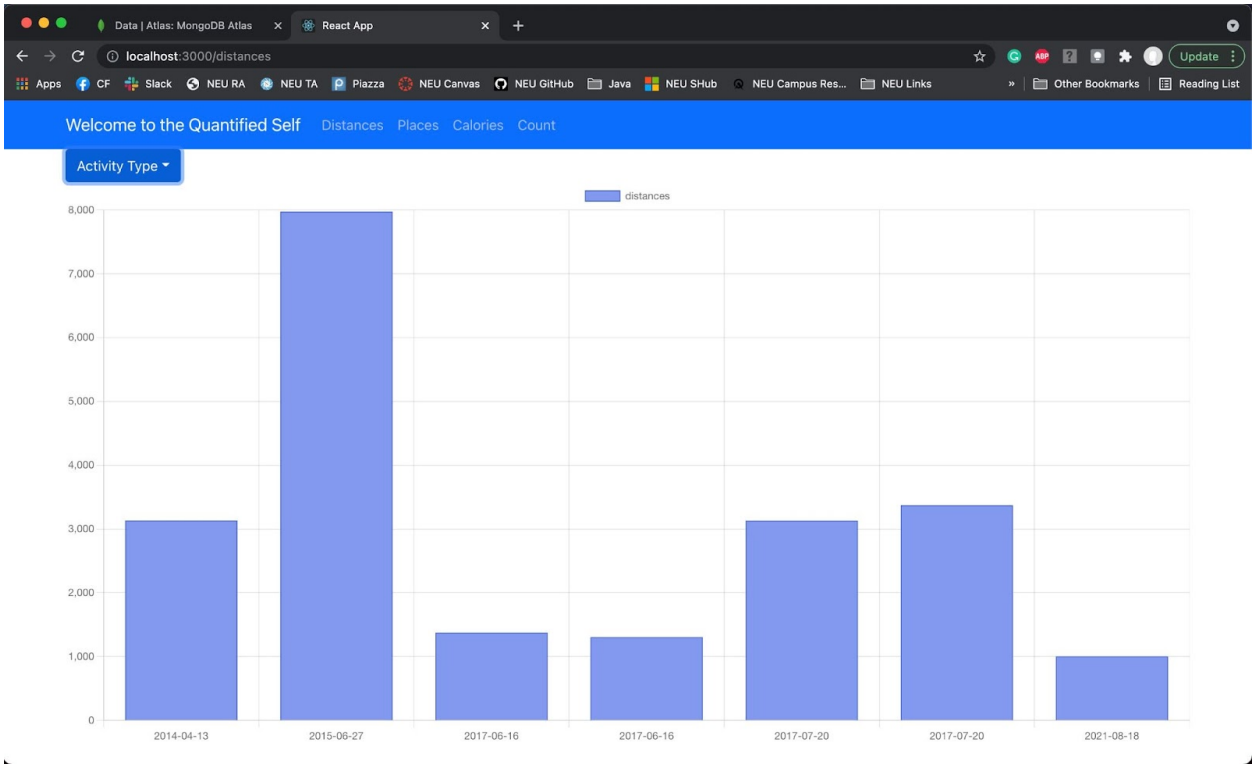
The above screenshot displays Postman posting a user or client's request to add an activity to the activity collection. It also shows the fields associated with the activity entry to be added to the database. A successful addition to the database returns the new id of the activity object, generated by MondogDB Atlas.



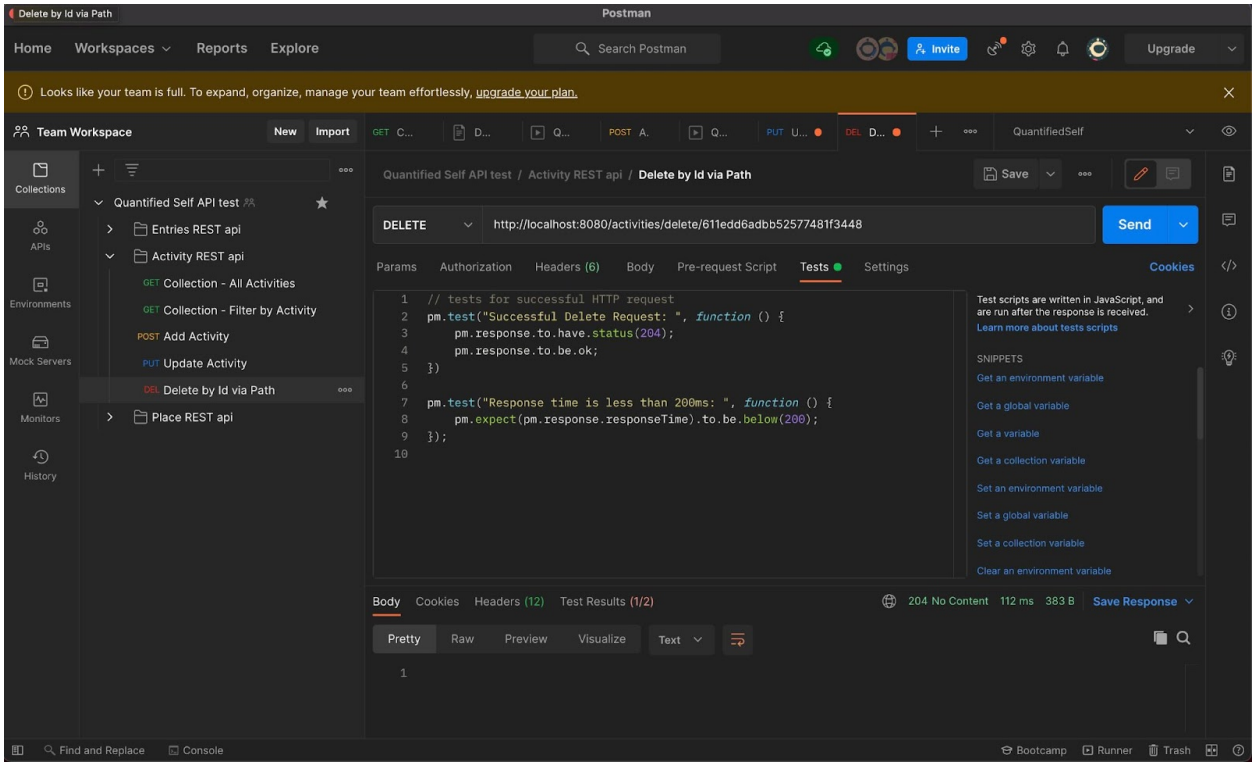
The graph above reflects the added activity from the above post request screenshot, which has the date 2021-08-18 with a distance value of 0.



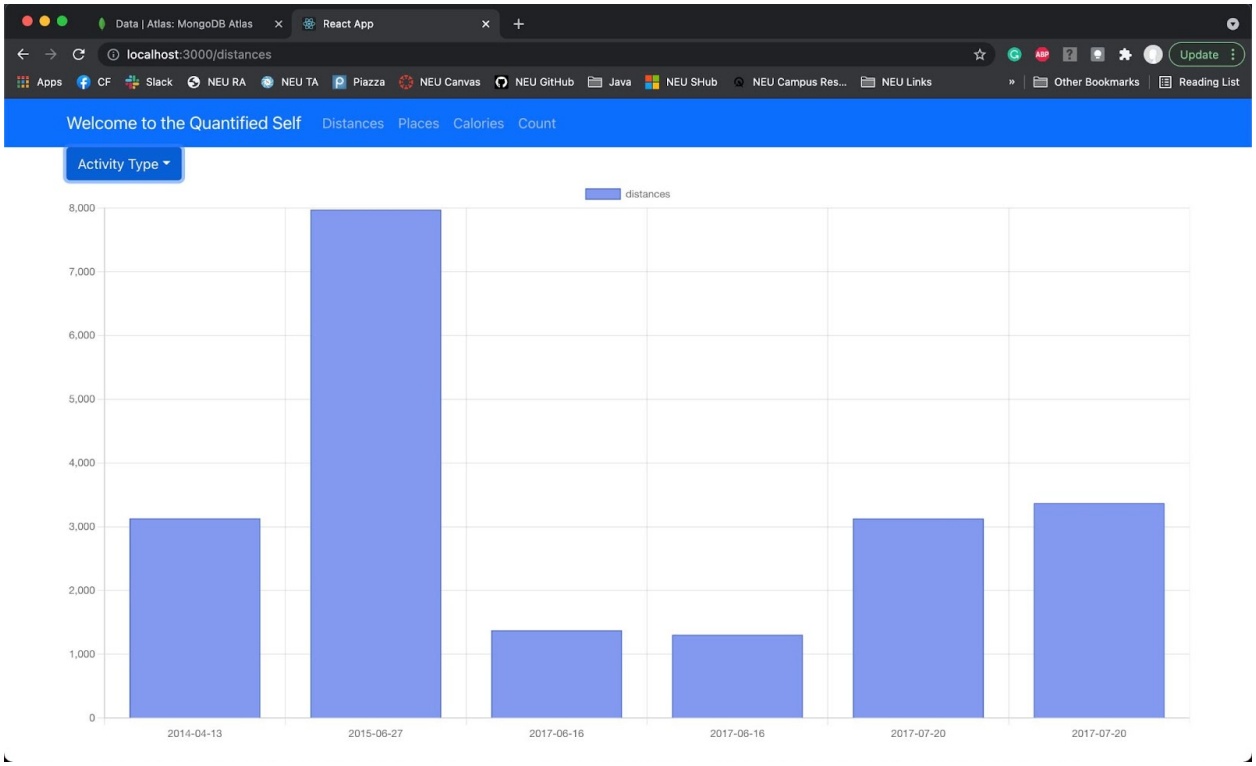
The graph above shows Postman processing the client's put request to update the 2021-08-18 activity by changing the activity distance travelled on that date from 0 to 1,000.



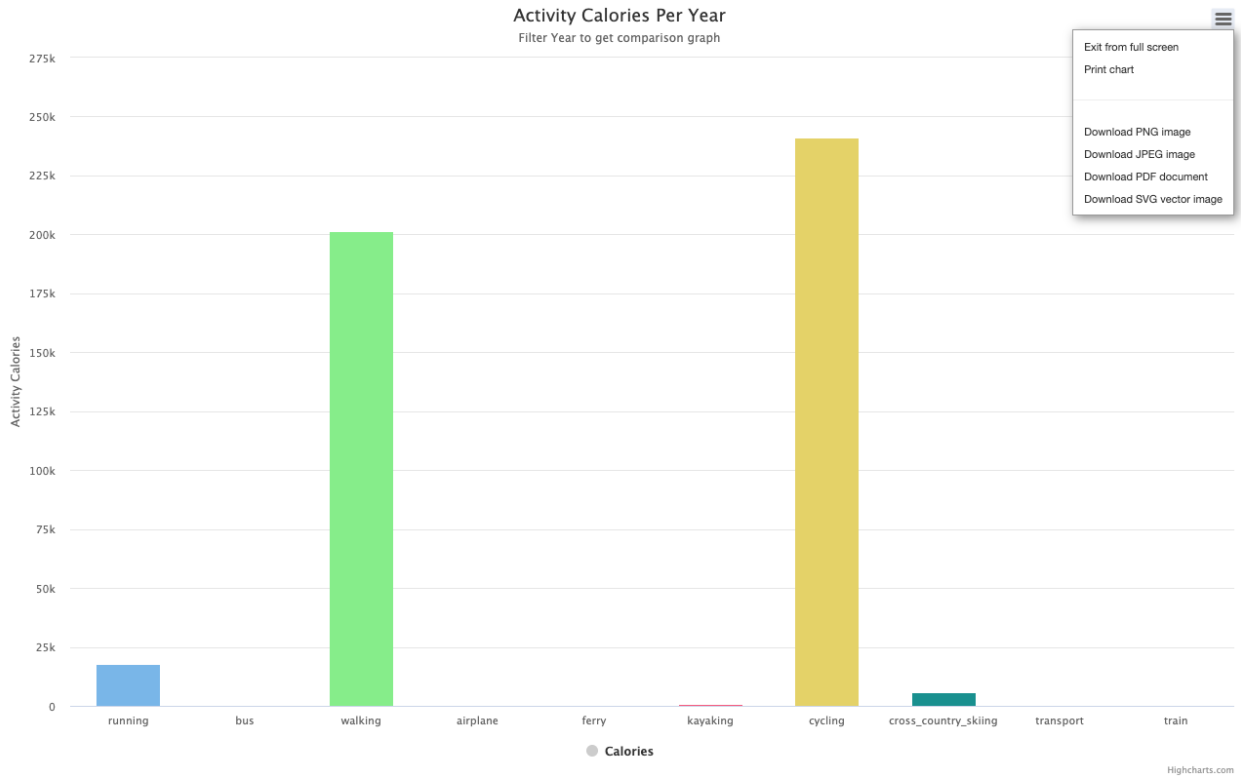
The above screenshot displays the result of updating the distance value of the 2021-08-18 activity of the distance bar graph.



The above screenshot is a view of the Postman running our client's request to delete the activity with date 2021-08-18. An activity entry is deleted from the activities collection when given an id.



The above screenshot displays the distances bar graph after the activity with the date 2021-08-18 is deleted.



The above screenshot is an extension of the capabilities of the calories bar graph. It can be downloaded into various file formats and it can be viewed in full screen mode.