
Weather App - Climate Change


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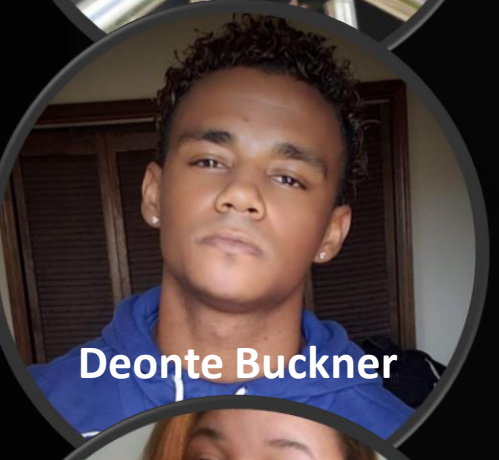
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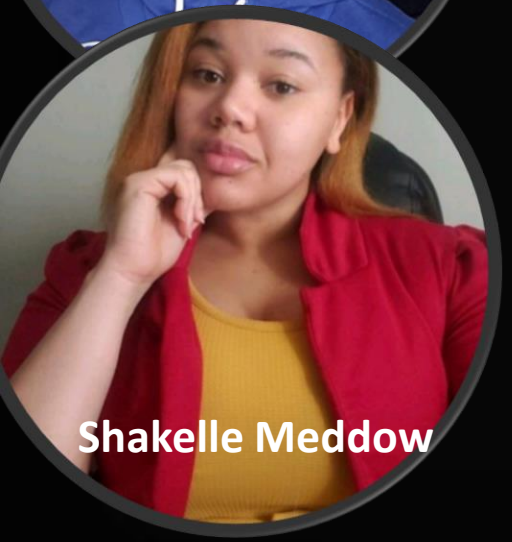
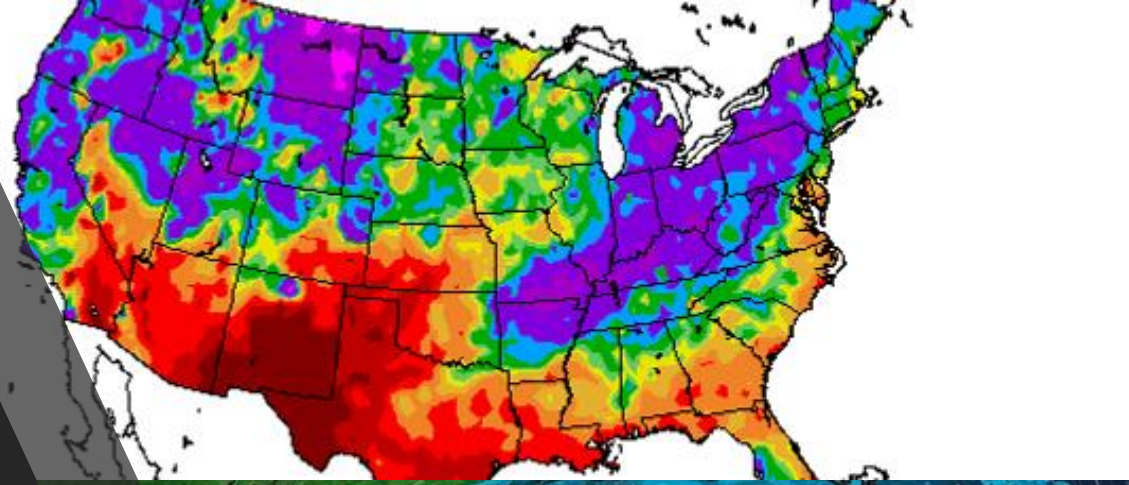
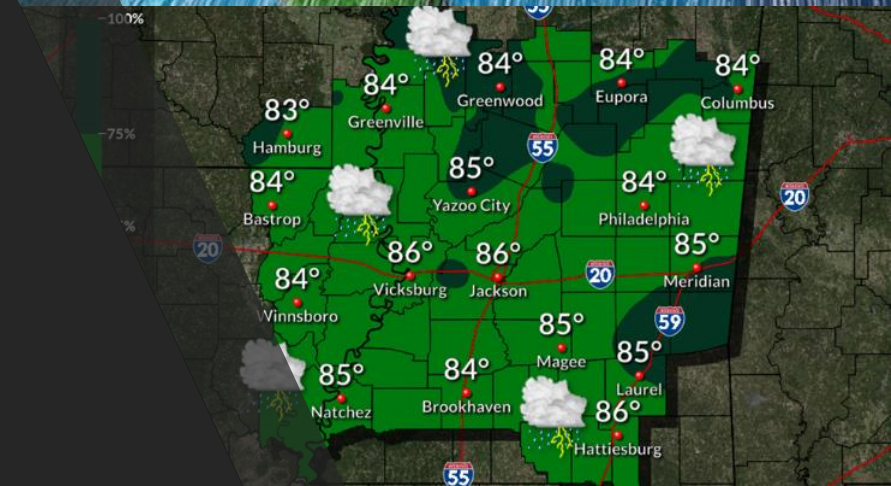

Shakelle Meddow

eam Members

Goals

To utilize the datasets acquired from Mississippi weather-based data to understand trends and weather patterns.





Problem Statement

Using ncde.noaa data sets, we inputted the data sets for different months of the year to depict the trends of previous weather to forecast upcoming weather trends for the month

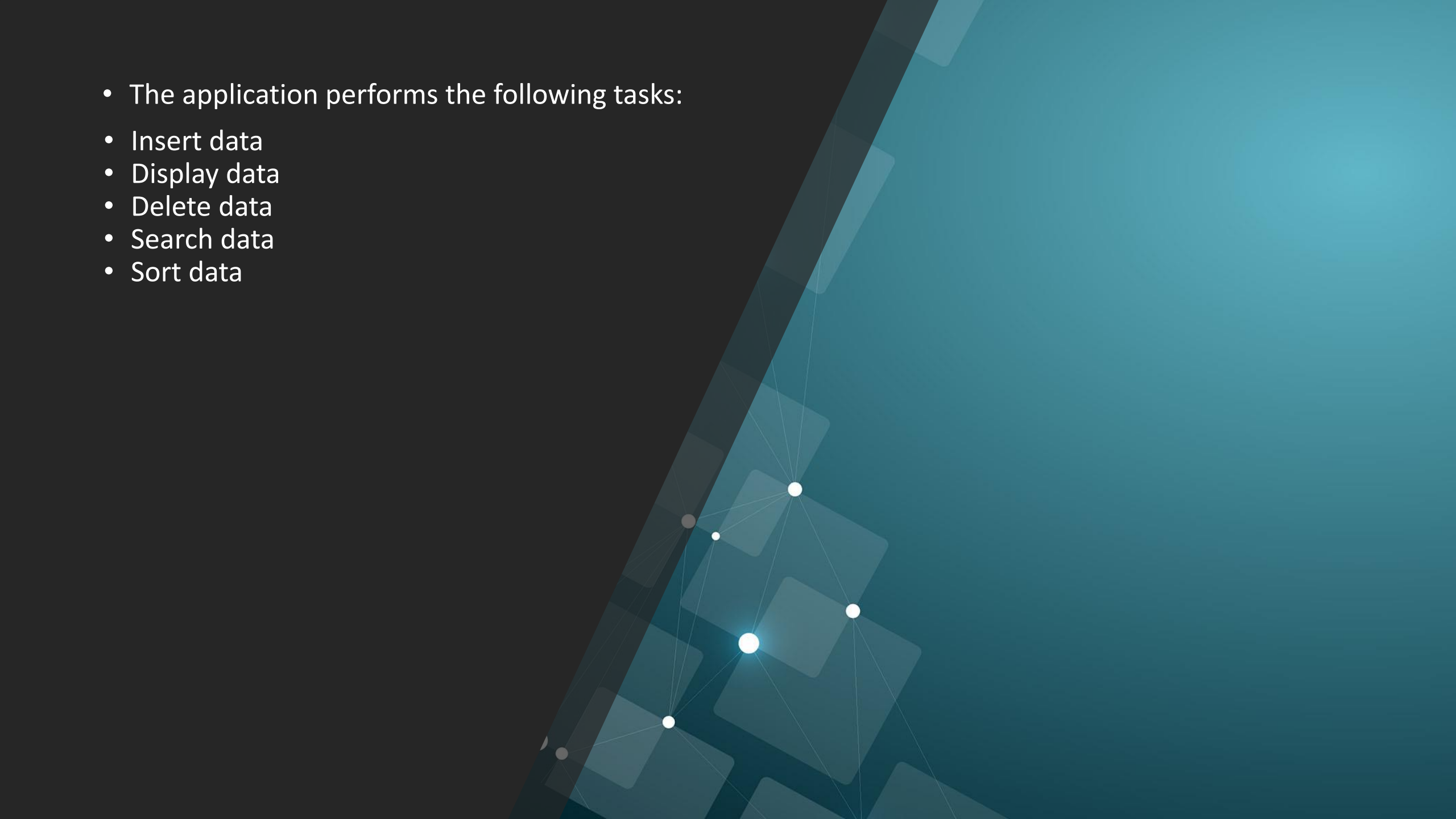



Benefits and values

- Unexpected weather and climate change are becoming more frequent and leading to tremendous changes globally. These continuous sudden changes will soon lead to catastrophic weather that will increase flooding, famine, diseases, melting of the ice and so much more.

- This application allows users to analyze weather patterns/trends from previous data sets. Where the user can examine the past weather conditions(hot, cold, rain, snow, etc.) for a selected dates (day/month/year) to anticipate future weather forecasts.

- The application performs the following tasks:
- Insert data
- Display data
- Delete data
- Search data
- Sort data



Application Overview

- Data Sets Used – National Oceanic and Atmospheric Administration Website Database) NOAA- October, November, December
- Datasets converted to txt files
- Lowest temperature
- Highest temperature
- Average temperature
- Summary of weather data

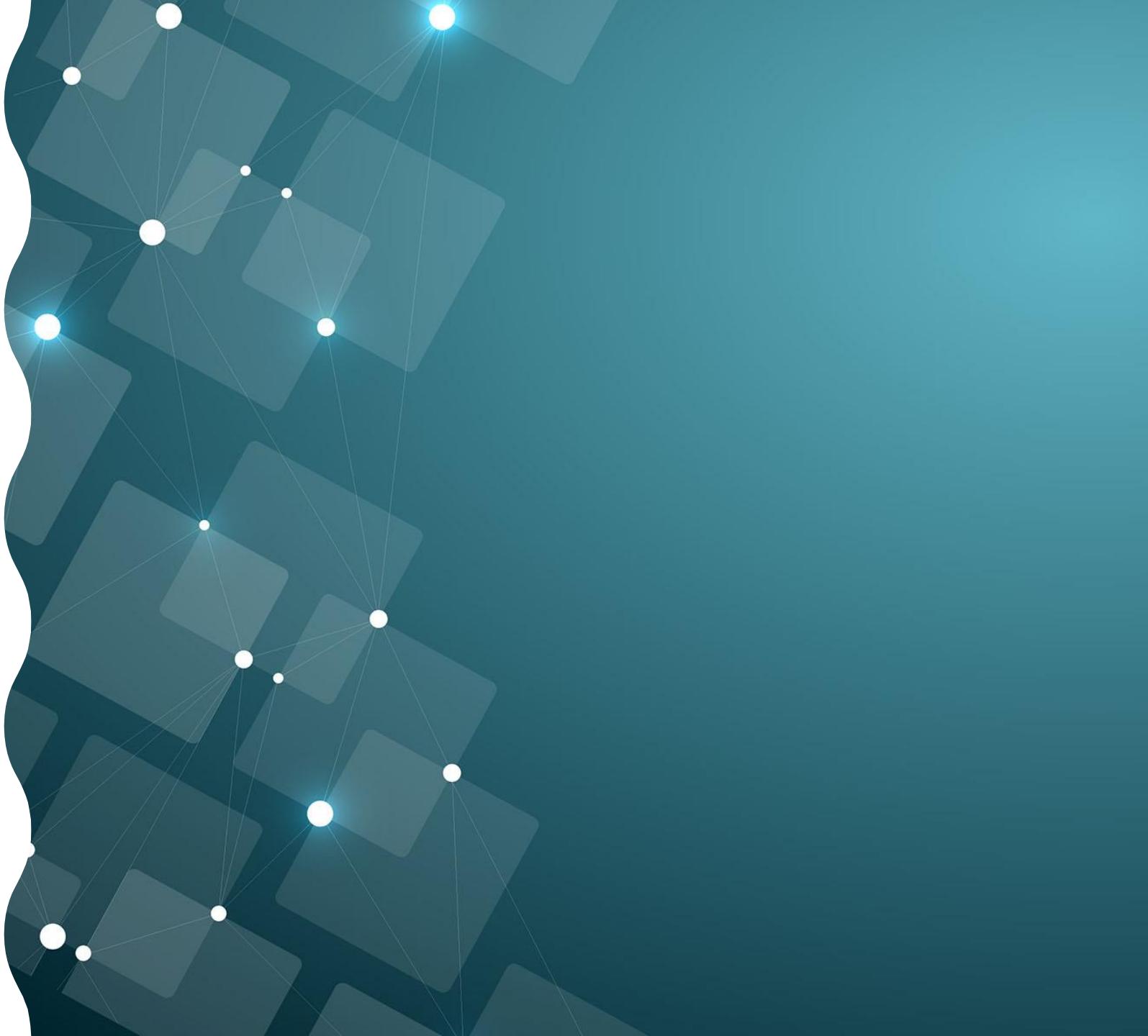
Data Structures used

- **DailyData- a class to hold the date for a single day(A single line in the text files)**

- **Vectors- a single vector called ‘dailyList’ is used throughout the whole program. The vector stores data of the type ‘ DailyData’ (which is a custom class that holds the data for a day)**

- **Linked Lists- used in the search feature part of the program. The linked list is used to store search results temporarily.**

- **Bubble sort (Algorithm) – all sort operations in the program are bubble sorts**



Individual Task Followed by **Demonstration**

Thank you

Alone we can do so little, together we can do so much.

Helen Keller