IOT Data Processor

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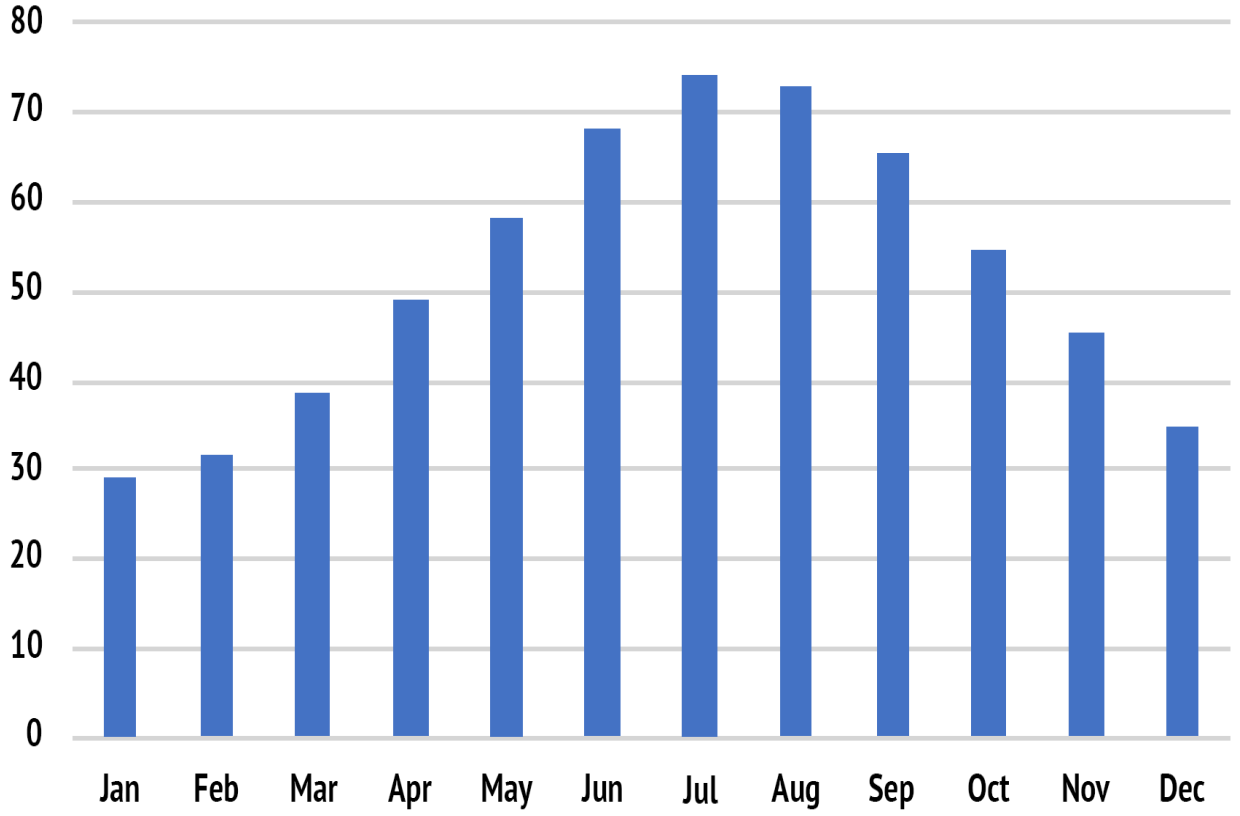
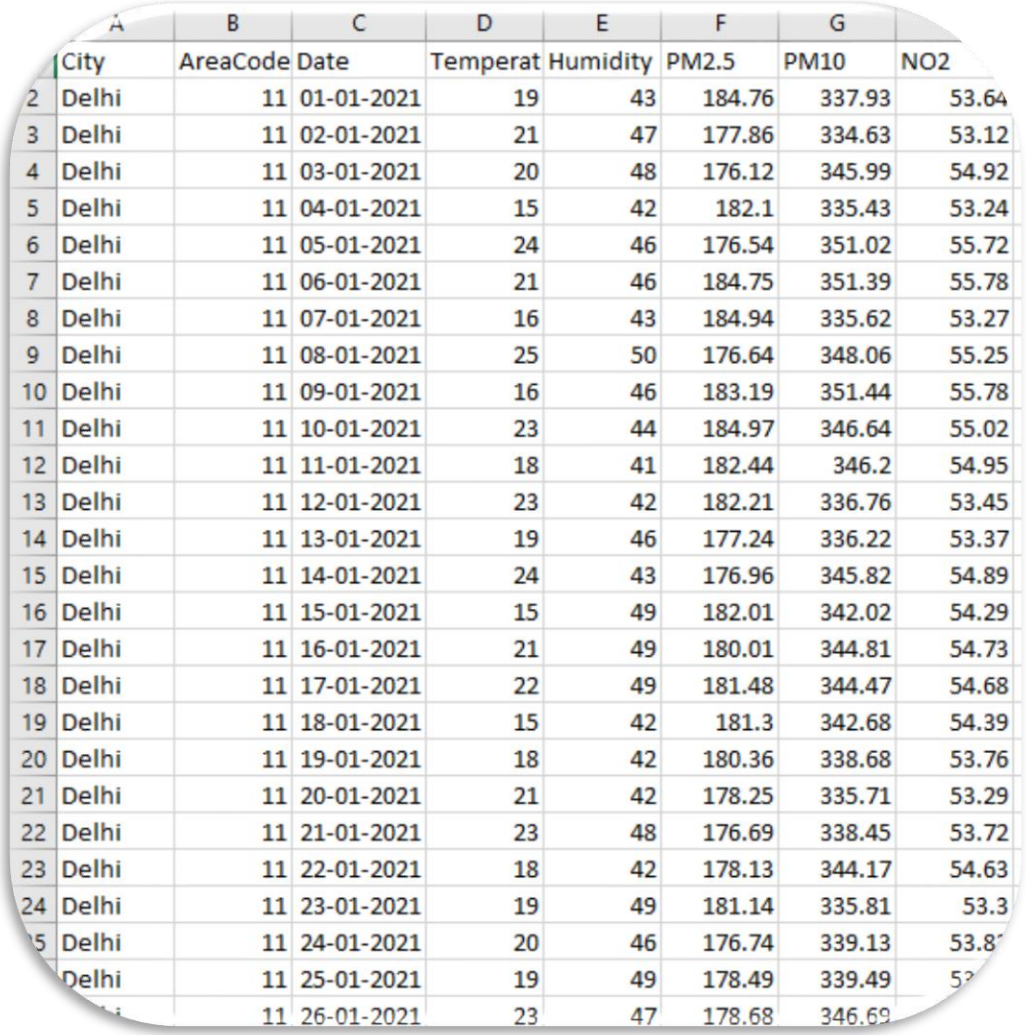
Introduction of IOT Data Processor

- To record events, observations or measurements Systematically.
- To measure and store environmental data.
- Records data in relation to the location.
- User can find average temperature and pollution.



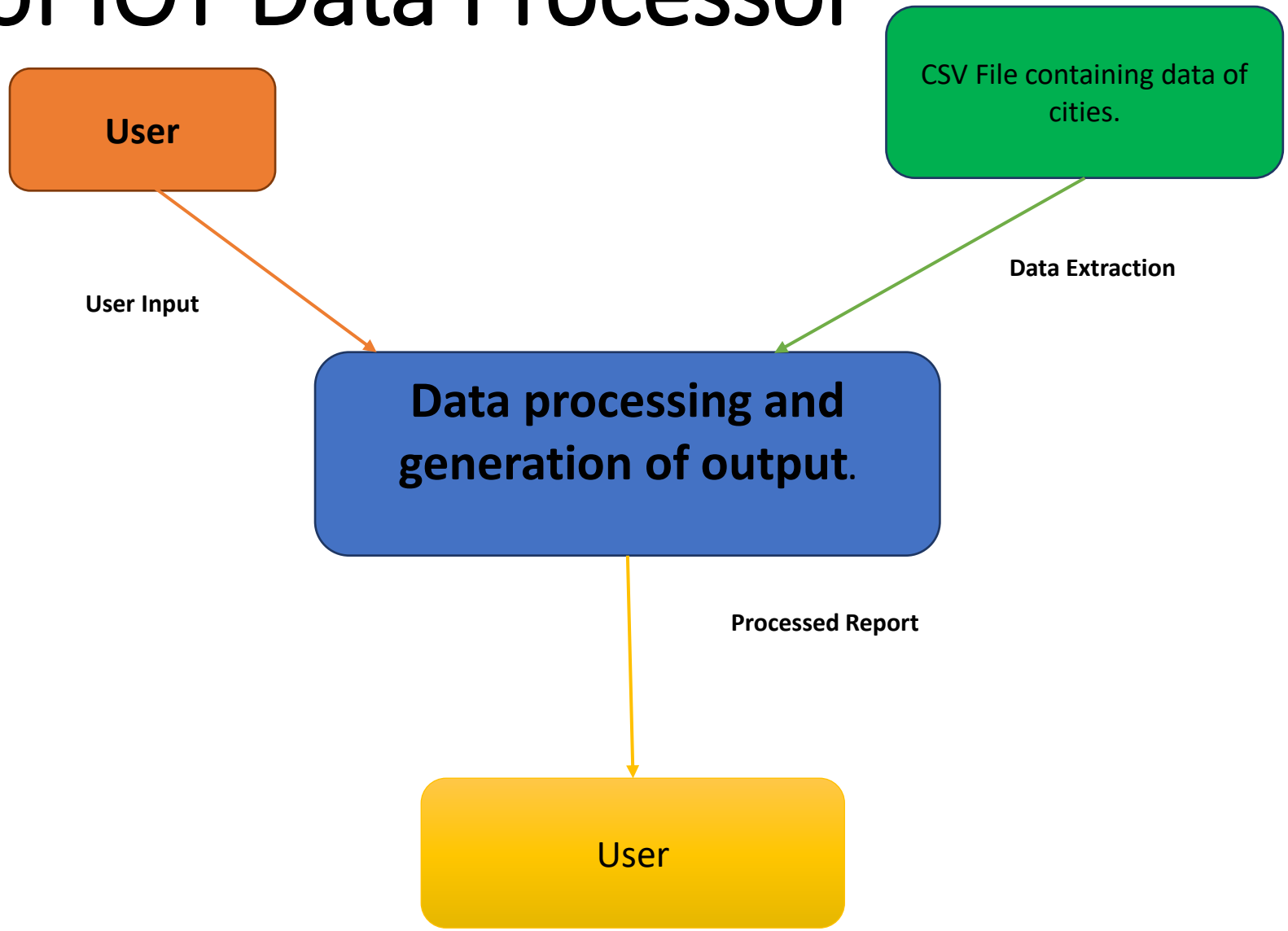
Purpose of IOT Data Processor

- To show data files.
- Graphical report of a parameter changes in a city over a year.
- The user can also find the pollution level
- Allows to save data in form of Csv file
- You can create and configure files.

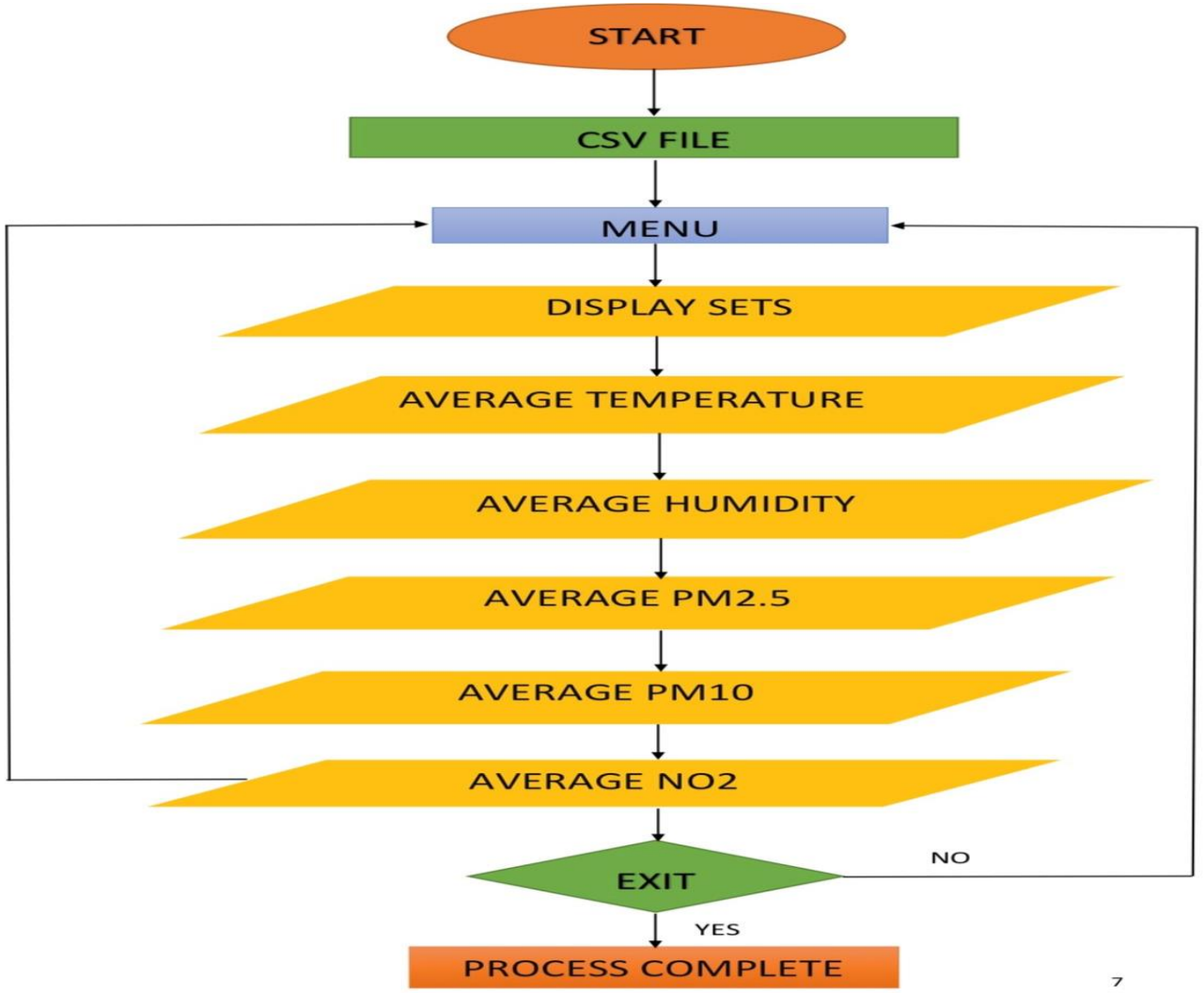


	A	B	C	D	E	F	G	
	City	AreaCode	Date	Temperat	Humidity	PM2.5	PM10	NO2
2	Delhi	11	01-01-2021	19	43	184.76	337.93	53.64
3	Delhi	11	02-01-2021	21	47	177.86	334.63	53.12
4	Delhi	11	03-01-2021	20	48	176.12	345.99	54.92
5	Delhi	11	04-01-2021	15	42	182.1	335.43	53.24
6	Delhi	11	05-01-2021	24	46	176.54	351.02	55.72
7	Delhi	11	06-01-2021	21	46	184.75	351.39	55.78
8	Delhi	11	07-01-2021	16	43	184.94	335.62	53.27
9	Delhi	11	08-01-2021	25	50	176.64	348.06	55.25
10	Delhi	11	09-01-2021	16	46	183.19	351.44	55.78
11	Delhi	11	10-01-2021	23	44	184.97	346.64	55.02
12	Delhi	11	11-01-2021	18	41	182.44	346.2	54.95
13	Delhi	11	12-01-2021	23	42	182.21	336.76	53.45
14	Delhi	11	13-01-2021	19	46	177.24	336.22	53.37
15	Delhi	11	14-01-2021	24	43	176.96	345.82	54.89
16	Delhi	11	15-01-2021	15	49	182.01	342.02	54.29
17	Delhi	11	16-01-2021	21	49	180.01	344.81	54.73
18	Delhi	11	17-01-2021	22	49	181.48	344.47	54.68
19	Delhi	11	18-01-2021	15	42	181.3	342.68	54.39
20	Delhi	11	19-01-2021	18	42	180.36	338.68	53.76
21	Delhi	11	20-01-2021	21	42	178.25	335.71	53.29
22	Delhi	11	21-01-2021	23	48	176.69	338.45	53.72
23	Delhi	11	22-01-2021	18	42	178.13	344.17	54.63
24	Delhi	11	23-01-2021	19	49	181.14	335.81	53.3
25	Delhi	11	24-01-2021	20	46	176.74	339.13	53.8
	Delhi	11	25-01-2021	19	49	178.49	339.49	53
		11	26-01-2021	23	47	178.68	346.69	

DFD of IOT Data Processor



Flow of program of IOT Data Processor



Requirements of IOT Data Processor

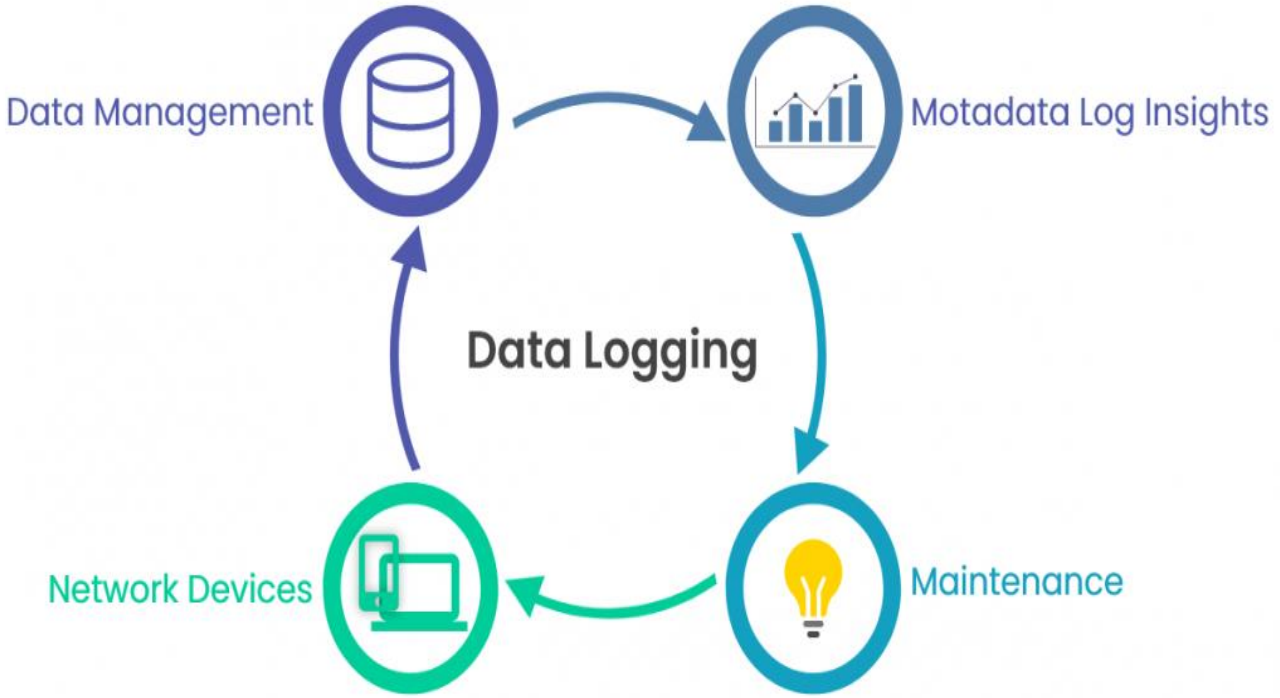
- Language : C
- Tools: Make, Valgrind, Ctags.
- Compiler: GCC (GNU Compiler Collection)
- Operating system: Ubuntu Environment.

Advantages of IOT Data Processor

- Higher efficiency and accuracy.
- Versatile data acquisition.
- Easy data analysis.
- Reliable technology.

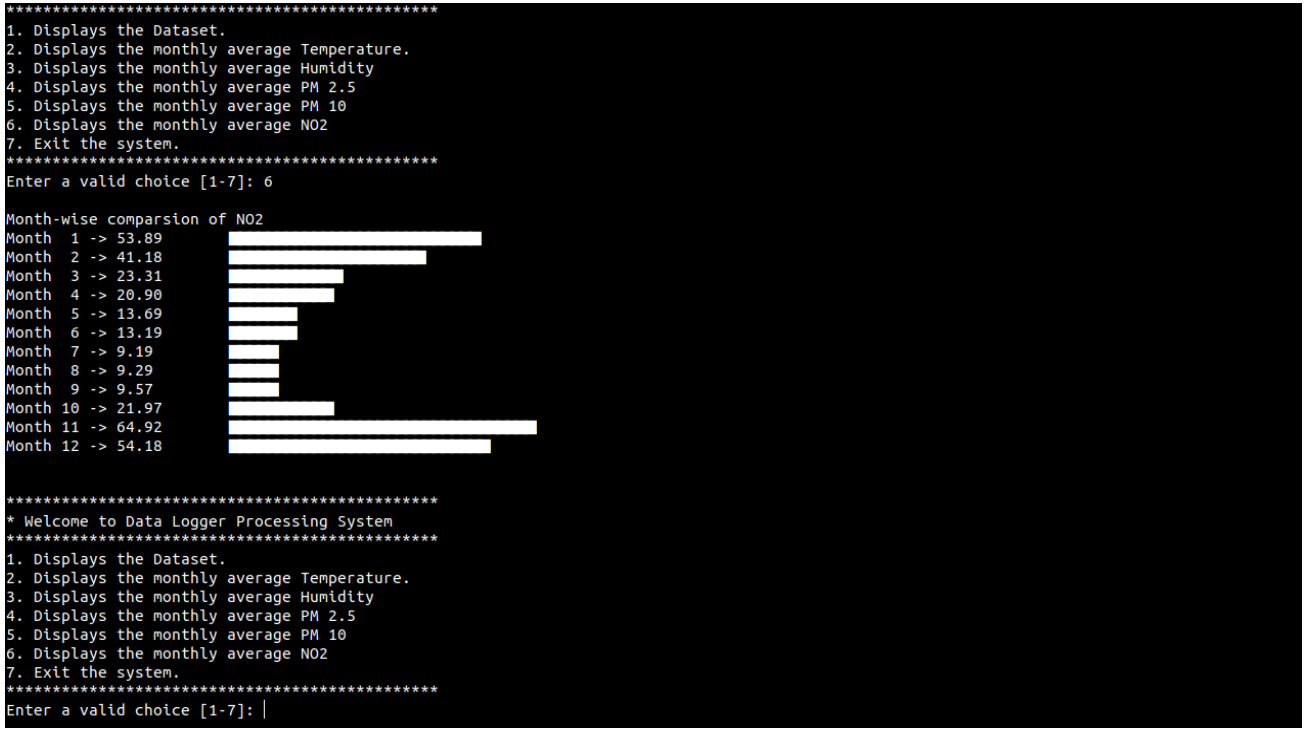
Applications of IOT Data Processor

- Environmental monitoring
- Industrial health and safety
- Energy efficiency management
- Farming
- Urban planning



Conclusion of IOT Data Processor

- Improved data driven decision making.
- Considered by Meteorological department and local authorities.
- Easy to use and user friendly.
- Reliable and great future advancements.



Thank You!