PROJECT PLAN DOCUMENT

Project number	***27***
Project Title	***Outdoor Air Pollution Monitoring in IIIT-H Campus***
Document	***Project Plan***
Creation date	***February 1, 2020***
Created By	***Rishabh Daga, Anubhav Sharma, Monil Gokani, Shiva Prasad***
Client	***Sachin Chaudhari, IIIT-H***

Brief problem statement

Given the data out of the already installed sensors inside the IIIT-H campus, we will be making a model which will help the user base visualize the air quality standards. Through the initial plan, we will be working to make a web portal which will consist of a heat map describing the pollution levels in the campus premises along with some statistical data. For this we will be given live data from the pre-installed sensors.

Team Members

Rishabh Daga : Documentation & Back-end developer

Anubhav Sharma : Central Co-ordinator cum Front-end developer

Monil Gokani : Data Analytics & Back-end developer

Shiva Prasad : Data Retrieval & Cleaning

Team Communication

Whatsapp, Gitlab & Microsoft Teams

Development Environment

Development Environment: VS Code, Sublime

Programming Languages: HTML, CSS, Bootstrap, Python, JS

Collaboration Tools: Latex, LibreOffice, Lucidchart

Milestone Schedule

S.No	Milestone	Target Sprint	Release	Deliverable?
1	*Create draft requirements*	1	R1	No
2	*Project Concept Document draft creation*	1	R1	No
3	*Finalization of Project Concept Document*	1	R1	Yes
4	*Surveying market for similar projects*	2	R1	No
5	*Finalizing Project Requirements and delivering SRS*	2	R1	Yes
6	*Download and clean sample data*	3	R1	No
7	*Analyze and smooth sample of data*	3	R1	No
8	*Data plots and analysis for the data selected sample*	3	R1	Yes
9	*Verify ,validate and infer from data across sensors and time*	3	R1	No
10	*Design a prototype UI for the system*	4	R1	No
11	*Embed the sampled plots in the UI*	4	R1	No
12	*Test the prototype UI for typical use cases pertaining to analytics*	4	R1	No
13	*Prototype of UI with core functionality*	4	R1	Yes
14	*Implement real time graph updates(line graphs and Histograms) on UI*	5	R2	No
15	*Expand statistics to include all available historical data instead of just a sample*	5	R2	No
16	Using data of the pollution levels and deducing inferences according to time-periods(3 to 4 hrs)	5	R2	Yes
17	*Embed map and implement gradient for Heat Map*	6	R2	No
18	*Implement periodic updates of heatmap*	6	R2	No
19	*Heat map of sensor wise data with periodic updates*	6	R2	Yes
20	*Improving UI to make it more user friendly*	7	R2	No
21	*Exhaustive Documentation of the system*	7	R2	Yes
22	*Additional Features if needed*	7	R2	Yes
23	*Web Application helping visualize given data in real time*	7	R2	Yes