FINAL YEAR PROJECT REPORT

AIR QUALITY MONITORING SYSTEM

In fulfillment of the requirement
For degree of
BS (Information Technology)

By

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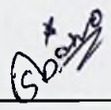
BAHRIA UNIVERSITY (KARACHI CAMPUS)
2016-2020

DECLARATION

We hereby declare that this project report is based on our original work except for citations and quotations which have been duly acknowledged. We also declare that it has not been previously and concurrently submitted for any other degree or award at Bahria University or other institutions.

Signature : 

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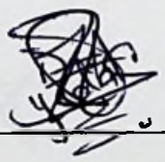
Signature : 

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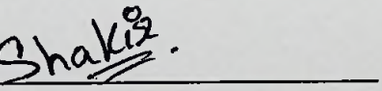
Signature : 

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AIR QUALITY MONITORING SYSTEM

ABSTRACT

Air pollution refers to presence of harmful and poisonous chemical or particles in air. Air pollutions' short time effects on human health include pneumonia or bronchitis, irritation to the nose, throat, eyes, or skin, it can also cause headaches, dizziness, and nausea. Whereas long term exposure to air pollution may lead to heart disease, lung cancer, and respiratory diseases such as emphysema. Air pollution can also cause long-term damage to people's nerves, brain, kidneys, liver, and other organs. People living in under developed countries with poor air-quality controls and health checks experience the most exposure to harmful gases particularly in industrial areas. Air qualities link with industrialization, societal health problems associated with poor air quality disproportionately affect both developed and developing nations. It is easier to take preventive actions against pollutants once they are detected.

This report presents a project entitled Air Quality Monitoring System which represents quantity of air pollutants detected in area of devices. Reading for air quality index (AQI) in unhealthy condition is detected by sensors, the system will send alert if quantity of pollutants passes that of threshold limit. In this way information about the unhealthy environment will quickly be known for ease of initial steps and security measures taken.

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