Six Element Analysis (Existing):

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| --- | --- | --- | --- | --- | --- | --- |
| **Process** | **System Roles** | | | | | |
| **Human** | **Non-Computing Hardware** | **Computing Hardware** | **Software** | **Database** | **Network & Communication** |
| **Insert AQI Data** | **Bangladesh Meteorological Department:**   1. Sends Air   pollution data to the ministry  **Weather Station:**   1. Collects   and sends raw AQI data to the ministry in hardcopy or softcopy form.  **Ministry:**   1. Receives   air pollution data from Bangladesh meteorological department in hardcopy or softcopy form.   1. Receives   raw AQI data from the weather station in hardcopy or softcopy form.   1. Sends   AQI data once every month from different districts to the representative of CASE in hardcopy or softcopy form.  **Representative of CASE:**   1. Receives   monthly AQI data from the ministry and insert data in CASE. | **Pen and Papers:**   1. To   collect and print the AQI data in hardcopy form | **Computer:**   1. All   the data are finally stored using a computer.   1. The   representative of CASE uploads data to CASE using a computer. | **MS Excel:**   1. Weather   station, Bangladesh meteorological department, ministry uses MS Excel to store the AQI data collected. | **No database used.** | **Internet:**   1. CASE is a   web-based application and requires internet to access. |
| **Report Generation & Analyzing** | **Representative of CASE:**   1. From the AQI   data, they create reports and post it on CASE.  **Municipality:**   1. Receives the   monthly report from CASE.  **Ministry:**   1. Receives air   pollution report from CASE.  **User:**   1. From the   reports, they get monthly information about the air quality of the area. | **Not Applicable** | **Computer:**   1. All the   data has to be accessed through a computer.   1. Reports   are formed using computer.   1. CASE   can be accessed through computer.  **Smartphone:**   1. CASE   can be accessed through any smartphone. | **MS Excel:**   1. To   model and analyze the data.   1. To   generate graphs using the data.  **MS Word:**   1. To   create the reports after analyzing the data. | **No database used.** | **Internet:**   1. CASE is a   web-based application and requires internet to access. |