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Structural Health Monitoring Using IoT

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Abstract. In the developing country like India ,constructions are growing rapidly day by day at the same time monitoring plays a crucial role for the safety of the people but due to the irresponsibility of monitoring team and monitoring was not done at right time then the severity of the problem increases and leads to the damage to the structure. If the monitoring of the structure is done at the right time then we can find the problem at the initial stage.To overcome this problem we came up with this method i.e. Structural health monitoring (SHM) using IOT. In this we arrange multipurpose sensors to the structure which will sense the deflection in the structure, fire in the structure, smoke in the structure, earthquake in the structure. When the sensor detects any problem then alert notification will be send to the authenticated user. When the notification is sent then there is a chance to take an immediate action so that there is a chance of reducing the risk and increase in the safety

Keywords: sensor, monitoring, deflection, structure, Internet of Things