Group No: G3

Project Title: Development and Implementation of Cloud Platform for IoT Devices.

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Abstract:

Internet of things may be a growing network of everyday object-from industrial machine to client home appliances which will share data and complete tasks whereas you are busy with different activities. The IoT aims to unify everything in our world below a typical infrastructure, giving United States of America not solely management of things around United States of America, however conjointly keeping United States of America knowing of the state of the items. Home automation with the proliferation of IoT is changing into a reality currently, and a range of players like Apple, Amazon, Google, Samsung, are all convergence into this area to produce the platform and solutions for sensible homes. In lightweight of this, gift study addresses IoT ideas through systematic review of pedantic analysis papers, company white papers, skilled discussions with specialists and on-line databases. The most objective of this paper is to produce an outline of web of Things, architectures, and very important technologies and their usages in our standard of living. An IoT (Internet of Things) platform is a crucial component in today's connected world, serving as the backbone for the management and analysis of data collected from connected devices and sensors. It enables organizations and individuals to gain insights and make better decisions, as well as automate processes and improve efficiency. A typical IoT platform includes various features such as device management, data storage and analytics, and the ability to build and deploy custom applications. Device management allows for the easy and secure connection, monitoring, and control of devices, while data storage and analytics provide the means to process and analyse large amounts of data in real-time. Additionally, the ability to build and deploy custom applications allows organizations to create and implement their own solutions tailored to their specific needs. In summary, IoT platforms play a vital role in managing and analysing data from connected devices and sensors, providing organizations with the necessary tools and services to gain insights, automate processes and improve efficiency. They are an essential component of the digital transformation process and are increasingly being adopted across various industries.