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(57) Abstract :
Modern era is conquered by the fairly disruptive technology of Internet of Things (IoT) which has unimaginable capability, growth and impact. Devices using this technology demands incredible security and data privacy as same cloud connects several devices; hence there is possibility of data leakage. This invention presents the implementation of Representational State Transfer (REST) Application Programming Interface for IoT devices based on the concepts used in IoT technology which keeps record of events of the devices along with count of everything. These devices are connected to the cloud server utilizing the concept of middleware. But new applications using IoT in the cloud brings security threats for data privacy. Hence there is requirement of innovative system for securing innovative IoT devices which avoids hackers from entering the network via IoT devices along with securing transit of data into the cloud from the IoT devices. This invention provides the method of securing IoT devices connected to cloud and users by exposing them using REST API. Device data is primarily exposed using middleware via REST thereby hiding details acting as an interface between sensor data and the user.

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