# MAJOR PROJECT

## (2020-2021)

**ECOM RETAIL**

SYNOPSIS



# Institute of Engineering & Technology

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### PROBLEM STATEMENT

Internet of Things (IoT) is considered to be the next industrial revolution and often referred to as Industry 4.0. Many applications are getting developed in IoT by interconnecting smart sensors, smart actuators with cloud computing platform for creating smart infrastructures like energy, transportation, water & waste management, smart manufacturing and automation. However, security of IoT and smart infrastructures is equally important. The problem statement is to secure end-to-end IoT value chain, anomaly detection, rare-event detection, incident reporting.

### REASON FOR SELECTING THIS PROJECT

1. Denial Of Service (DOS)
2. Distributed Denial Of Service (DDOS)
3. Information Manipulation
4. Unauthorized Access
5. Information Disclosure

These type of challenges or attack that’s why selecting this project .

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### OBJECTIVE

The Internet of Things is part of our everyday life, which applies to all aspects of human life; from smart phones and environmental sensors to smart devices used in the industry. Although the Internet of Things has many advantages, there are risks and dangers as well that need to be addressed. The information used and transmitted on Internet of Things contain important info about the daily lives of people, banking information, location and geographical information, environmental and medical information, together with many other sensitive data. Therefore, it is critical to identify and address the security issues and challenges of Internet of Things. In this article, considering the broad scope of this field and its literature, we are going to express some comprehensive information on security challenges of the Internet of Things.

### REQUIREMENTS:

**1). SSL (Secure Socket Layer)**

**2). The real breakthrough came from the use of asymmetric cryptography (RSA, ECC).**