MY PAGE'S Anish Kennan. Date __/__/_ 1442165028 Do ony requirements Desplain the characteristics of IOT with diagram characteristics of I oT diagrams Connectinity: I o T devices need to communicate with each other, usually over the internet. This characteristic is essential for exchanging Sensing - Sensors are Crued in IOT for collecting data from the enveronment such as temperature, humidity - Pota - TOT is a late driver Dervies Collect data , which can then be processed, analyzed and acted Intelligence - many Tot eyeten encorporate come level or artificial intelligence or making bearing to make sense of data and make decisions - Action : TOT devices con lake oction based on callected date and processed insights , such as turning and for

when a lemperature shreshold is not

2) Fullation of TOT: Pere I OT Basis machine to machine Communication without internet Cornetinity Early TOT (19803 - 19904): Internet - connected dewices emerge but with limited functionality and connectivity options JOT Expansion (2000s) Rapid growth the development of WIFT, mobile retworks and cloud Computing, enabling more devices to connect Modern IOT (20105-Present) widespread adaption across industries Technologies puchos 56, At

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3 Interdependence and Reach of TOT oner Various Application Domains

- Escurity systems, and applications.
- cornected medical equipment send data to health networks for mornilaring and analysis
- mochines on the factory

(4) ToT reducerking Components with Di

busies / sensons - These are the end points that collect data from the physical world

Crateways: these aggregate data
from denies translate protocols
and forward the data to the cloud

Meturer & Infrastructure - Routers, switches, and other Components that forilitate communication b/w denices and data centers

Cloud / servers = Storage and proceeding 5 Addressing strategist in Jot I P Addressing - I ot devices one often assigned I Paddresses for enternet Comedinity MAC addressing : Each Tot desuice has a unique mad addressing at a a hardware level, which helps in local network identification. IVI-64 A standard for addressing in lover tot metwork like 660 WRAN Naming and Directory Services - 107 platforms often are a directory ormere to mointain mappings between human greatable names and denice addresses