10:180CS007

NAME: RUDRA BARAD

SUB : IOT

25/02/2021 Classmate

UNIT TEST I 137 Date
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Tot, defined as " the coordination of multiple machines 10 devices and appliances connected to the internet through multiple networks "which can be quiet useful in healthcom section.

Raspbergy pie is small-single board computer with great computational power which can perform multiple tasks together which makes it so useful for RPM (memote patient (princoting)

-> For example (MED health provides Tot enabled heath monitoring solution via mobile app. User can monitor their primary health vitals remolely by integrating smoot medical devices with app The measured data is sent to MED's cloud server, which can be accessed & analysed by doctors

Jot can also help to protest hospital staffs from spread of vinus.

Other handwares which can be used for this is

Ly CAMERA - to detect if social distancing is maintained

Ly THERMAL SENSOR - to detect if anyone is having high fiven which is major symptom of covid-19

4 MOTION OR IR SENSOR - FOR automatic sanitization process so staff won't have to touch any unnecessary ikms

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	at suff real those ad our display assembling early



On. The major components of lot are as follows

- SENSORS / ACTIVATORS there are vanious devices & sensors which are used in lot
 - these devices callect data from the envisionment & transmit information to the next layer
 - various sensors are femourature sensor, humidity sensor, light sensor etc-
 - Connected to low power wireless networks
 like wifi, zigbee, blackooth etc-
- The system of the system from malicious attacks & unauthorize acress.
 - they are configured to perform pre-processing of the collected data from thousands of sensors locally before transmitting it to next stage
 - from devices, application and users created by lot
 - 10T cloud offers created by 10T tools to collect
 - in neal time.
 - The data can also be accessed themolely due to doud 8 so chitical decisions can be made easily.

1D:18DCS007 NAME: RUDRA BARAD ANALYTICS - this component is useful to extract important information from all the data stored in cloud. - big companies use this feature for their massive data utilize the insight for their future business opportunities Ey Farebook, Instagram etc. Tufore A con E con several con the -> APPLICATIONS (UI) - this one the visible, physical point of the lot system which can be accessible by users deto adoptata so le Visto, il il with a first of the war of the wa BANKE OF REST OF THE YOR TO HARRIED BUILD & 234 Sand Sanding and A shotta The special many of the publishers and written prograde goods with Exhation ; still to is pullerment such a latitude success in dust estimate same and the base successible of business agreed what them to be did for any one many They of high that the beauty mind to be the tell of But to tomore sput is reduced a reduced someth a

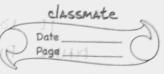
Thomas ad more analysisatic torolling a miss of things

classmate 1D: 18005007 NAME: RUDRA BARAD VARIOUS LAYERS OF TOT APPLICATION 12. Internet of things includes large number of smart devices connected to broad network with the help of various technologies works and a line was and the lan, par in reprindatesment state of 5 Layers are as follows: " I which h milolula in hand suining PERCEPTION LANER (physical objects, sensons) MIDDLE LAYER METWORK LAYER Istorage, actions Ctransmission, 34, 46 APPLICATION LAYER BUSINESS LANER (analytics, flowchart) (smant applications) PERCEPTION LAYER - This is the first layer of 10T anchitecture (1) In this sensons & actuatons are used to gather useful infortion like temprature. moisture, etc. - Main function of this layer is to get information from surroundings and to pass data to another layer so that some actions can done based on that informations It is connecting layer between perception NETWORK LAYER -(11) and middleware layer. It gets data from perception layer & passes data to middlewant layer using networking technologies like 3G,

40, etc. -

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(6)



	This is also called communation layer
	because it is mesponsi for communication blw
3	perception 8 middlewore.
	se es la alart articular describe conservation de la conservation de l
(111)	MIDDLEWARE LAYER- It has some advanced features like
	storage, computation, processing, action
	taking capabilities. It can also take
	decisions based on calculations done
	on data-set obtained from sensors.
	(רוועכונמד באורנב (בנובטאי)
(IV)	APPLICATION LAYER - Application layer managers all application
	pricies based on information obtained
7-7-1	from midalewore layer. This application
	involves sending mails, activating along,
	security system etc-
4.2.31	कर्म विश्वहात मुख्य विश्वहात । अन्यान अ
(v)	BUSINESS LAYER - Strucks of It involves making flowshout,
	graphs, analysis 8 nesults & how device
	so to the combe improved setc nous assert is
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	ID: 18D(5007 NAME: RUDRA BARAD O Date Page
13.1	(A) As pen my views Tot can change solve problems from education industries
	→ Improved school management efficiency
ly.	Managing an education institution requires filling in a 10T of paperwork, keeping track of supply management,
3)	lot solutions lay faster, risk-free, inter-connected decision
10	making frame work where all are engaged in improving the state of facility
	-> Real time data collection
L) L)	safty tracking
Lγ	-> Improved resource management
lγ	helps in establishing nun mone efficiently neducing operating & stonage costs in long nun
	-> Additional, facility manager using lot
	-> Examples of Iot in education
Ly	Edmodo, to connect students and teacher

1D: 18DCSODT an ma naale NAME : RUDRA BARAD (B) In automatic students attendance system but lot & MI plays a crucial molecularbui and on the coll -> Different sensors, camera, (motion sensors) et.which are components of lot can be used to collect input (in form of image) no program undispersion is surgered to be to be taken by the property of the taken -> MI part (face delection, comparision & necognition) is used to inviease its efficiency & accuracy to the state of the second to the state of the country of the country of the second of -> The M model Identifies the face & neturns true on false as answer If torue then attendance is marked offurwise student is absent - Keal Hise days instection Louismothering of the first for pressions of tille time som in paidwetet galax princediagous some my tribuits - stangaged stessioning management to whelps in establishing man nipsic efficiently ordund spire priot in stem sporte & puttomas TO L DOISH CORPORATE PRINCE WEIGHT ST contraubal of roll for astoring ? his chart hope stocked a transpir of a objects of