

# BYTE QUEST

Vasavi College Of Engineering



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\*5G  
TECHNOLOGY

Byte Quest is the article published by the CSE dept of Vasavi College of Engineering regarding the latest innovative Technologies and Software that have been emerged in the competitive world. The motto of this article is to update the people regarding the improvement in technology. The article is designed by the active participation of students under the guidance of faculty coordinators.

\*WHAT IS  
ETHEREUM

- Good ,bad or indifferent if you are not investing in new technology , you are going to be left behind.  
-Philip Green
- Once a new technology rolls over you, if you're not part of the steamroller, you're part of the road.  
-Stewart Brand.

\* ROBOTIC  
PROCESS  
AUTOMATION

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## 5G TECHNOLOGY

Fifth-generation wireless, or 5G, is the latest iteration of cellular technology, engineered to greatly increase the speed and responsiveness of wireless networks. With 5G, data transmitted over wireless broadband connections could travel at rates as high as 20 Gbps by some estimates -- exceeding wireline network speeds- as well as offer latency of 1 ms or lower for uses that require real-time feedback. 5G will also enable a sharp increase in the amount of data transmitted over wireless systems due to more available bandwidth and advanced antenna technology.



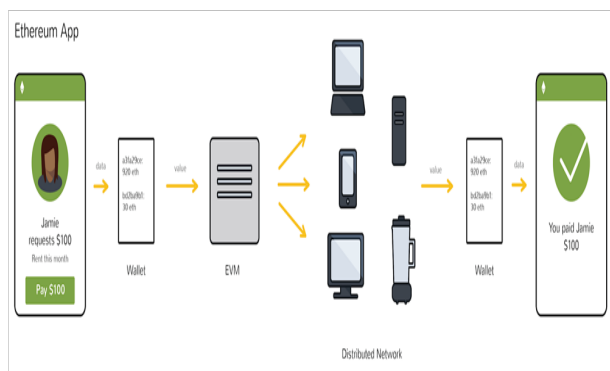
Fourth-generation (4G) Long-Term Evolution (LTE) wireless technology provides the foundation for 5G. Unlike 4G, which requires large, high-power cell towers to radiate signals over longer distances, 5G wireless signals will be transmitted via large no. of cells .

VIHARIKA(CSE-B 2/4)

## What is Ethereum?

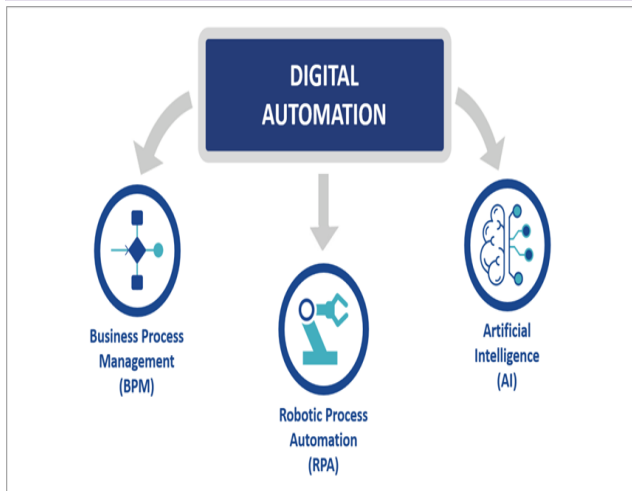
Ethereum has the goal of using a blockchain to replace internet third parties — those that store data, transfer mortgages and keep track of complex financial instruments.

Apps rely on the company (or another third-party service) to store your credit card information, purchasing history and other personal data – somewhere, generally in servers controlled by third-parties. Take the example of an online document service like Evernote or Google Docs. Ethereum, if all goes according to plan, would return control of the data in these types of services to its owner and the creative rights to its author.

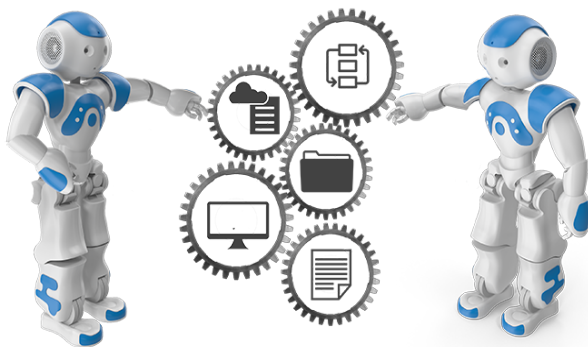


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# ROBOTIC PROCESS AUTOMATION



**Robotic process automation** (or RPA) is an emerging form of Business automation technology based on the notion of software robots or artificial intelligence (AI) workers. In traditional workflow automation tools, a software developer produces a list of actions to automate a task and interface to the back-end system using internal application programming interfaces (APIs) or dedicated scripting language. In contrast, RPA systems develop the action list by watching the user perform that task in the application's graphical user interface (GUI), and then perform the automation by repeating those tasks directly in the GUI.



RPA tools have strong technical similarities to graphical user interface testing tools. These tools also automate interactions with the GUI, and often do so by repeating a set of demonstration actions performed by a user. RPA tools differ from such systems including features that allow data to be handled in and between multiple applications, for instance, receiving email containing an invoice, extracting the data, and then typing that into a bookkeeping system.

## Impact of RPA on employment

Instead, workers have been redeployed to do more interesting work. One academic study highlighted that knowledge workers embraced it and viewed the robots as team-mates. The same study highlighted that, rather than resulting in a lower "headcount", the technology was deployed in such a way as to achieve more work and greater productivity with the same number of people.

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