Annual Newsletter 2017

Internet Of Things

प्रभात

BHARATI VIDYAPEETH'S BVIMIT NAVI MUMBAI

BHARATI VIDYAPEETH PUNE

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BVIMIT fortifies student's intellectual awaking and social transformation in different spheres that makes them to contribute to the organization and world as well. We strengthen student's hard work and commitments towards knowledge.

BVIMIT provides MCA, VI semester course enables overall development of students and give a different perspective towards corporate life. Current newsletter entitled “PRABHAT-exploring tech rising star” is a combined effort of students and staff members that commences articles on emerging technologies with theme as “INTERNET OF THINGS” provides articles for the same.

I hope “PRABHAT” will take you to the world of prominent technologies.

Editorial Desk

Prof. Pratibha Deshmukh
Editor-in-chief

It is indeed a great honor to be the Newsletter Editor for me and also an immense pleasure to launch the First edition of BVIMIT Newsletter “PRABHAT- exploring tech rising star”.

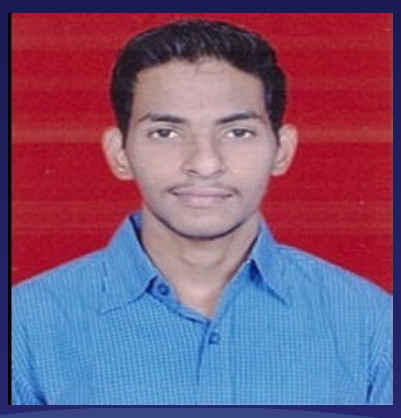
As we are living in the technological era, we have selected the topic for the article as “INTERNET OF THINGS” to make students aware about this emerging technology. It aims to be a truly interdisciplinary platform seeking to bring together a range of diverse voices on the topic in order to stimulate discussion.

A huge thank you to all the students who contributed writing the articles, without which there wouldn't have been this newsletter.

I appreciate PRABHAT student members for their everlasting support throughout the creation of this edition.

I hope “PRABHAT” will convey some technical knowledge to you.

Artifacts
Benefits of IOT in Embedded World



Deepak Sk Sharma
MCA Sem I

IoT will play an important role in embedded microcontroller devices as developer migrate from 8-bit and 16-bit to 32-bit MCUs where there will berequirements for enhanced device functionality, low cost and high performance.

It requires integrated approach with mobile application through the entirelifetime of smart appliances.

From the perspective of those using smart home appliances, the mobile app that controls the appliance is the product. Consumers judge smart products – meaning connected appliances that are part of Internet of Things (IoT) – largely on the quality of their mobile apps.

Grasping this simple but difficult truth means manufacturers of smart appliances need to make the fundamental shift in perspective in how they design, manufacture, and even support their offerings.

Mobile application development issues never entered into the design of home appliances.With mobile apps taking a front-and-center role in smart appliances.

Designing IoT mobile apps well requires considerable time and financial investments. It also requires making smart design decisions from the outset. One of those decisions is whether to use native code or hybrid code for the mobile app. Such flexibility is crucial, because the state of the art of mobile apps—and the entire IoTmarketplace—continues to expand and change. Even the definition of —product‖ in the IoT is up for grabs. Instead of appliances that are purchased, installed, and operate until replaced, smart appliances can be updated and enhanced continually throughout their lifetimes. Investing upfront in mobile app extensibility means that manufacturers of smart appliances can add future capabilities as they arise, whether voice control, touch authentication, Bluetooth beacons, or as-yet-unknown features.

A comprehensive IoT platform will include not only the technical needed to develop mobile apps for the IoT, but also a robust ecosystem that includes software developers with specific expertise in IoT mobile app development. The IoT is the future, and mobile apps are key to consumers' evaluations of the worthiness of any particular smart home appliance. Making IoT mobile app design a priority is one of the best ways to put the best face on a smart appliance.