

# IOT BASED SMART SOCKET

**By**

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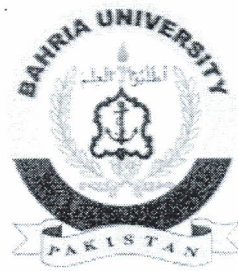
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## **Abstract**

We present a way of monitoring and controlling energy consumption of electronics and devices using smart sockets and smartphones. We developed wireless smart power sockets which can measure power consumption of electrical devices, and transmit the collected data to a gateway connected to a host server. A Java based program running on the host server puts the received data set into MySQL-based database tables, and a Web interface using JSP (Java Server Pages) offers access to the data set stored in the database. We hope to encourage users to recognize how much energy they are using, also help them save energy use. User is allowed to monitor and control their use of Smart Socket and the appliances attached to it. A website based account system is registered by every user on which the person can view the power consumed by each appliance attached to it and option of usage history allows the user to record the power consumed respectively. Smart Socket database also provides with the calculations used for the billing procedure. Another feature of the website illustrates the appliance that consume the less power. Smart Socket provides its user a user friendly, easy to use and a comforting platform to work with.

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