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Abstract
This disseration proposes a network communication application-platform design. The embedded system acts as server. The remote clients can control the functions of embedded system via Apache web server. The embedded system can be connected to Apache web server via a wireless router. The functions of embedded system include image detecting, image capturing, rotation-degree control of camera, remote client connecting, commands and image files transceiving via Internet, etc. Based on the scheme of Apache web sever, the MySQL database is mixed with website programming languages including HTML、PHP and JavaScript. Thus, the remote client can be connected to the embedded system via Apache web sever. The embedded system can combine with powerful functions of website programs and databases too. The Apache server scheme suits both Windows and Linux operating systems. All the development software tools are free, and thus the system development cost can be reduced significantly. The application-platform is applied to a campus logging automation system as an example to verify the overall function.
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