



# INFORMATION KIOSKS

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## **Abstract**

Information kiosk (hereinafter IK) is a set of large format touch screen and simple passive minicomputers, which "drives" dedicated "hammered" operating system debian linux. The aim of IK is to enable students medical faculty access to electronic learning materials placed on educational portals MEFANET.

## **Base description of IK solution**

IK consists of a simple passive mini computer. The hardware configuration corresponds to the current multimedia requirements. An integral part of the kit is the 42" LCD equipped with touch screen frame. When we choosing a computer more than hardware requirements are important compact dimensions.

We are using operating system based on Linux and used distribution is a base text installation of Debian. The operating system is configured to comply the basic requirements for "kiosk mode":

- Control over the LCD panel only fingertip
- The availability only for a predefined content (MEFANET portal, web Faculty, Medical Media Streaming Server, etc.).
- Operating system configuration flowing from dedicated device
- Monitoring and managing devices via remote access

## **Application of IK**

The main purpose of the IK project is locate the device into convenient space of Faculty and Hospital, where students will adequately fill the time while waiting for lectures and teaching seminars at the clinic. The part of the IK installation will be an assembly of mechanical security. The Installation and configuration of the operating system also includes other subsystems to ensure the operation of the IK (SSH, graphical user interface, web browser-plugin for

work with multimedia content, PDF reader, a tool for monitoring the course of IK). An inseparable part of the full functioning of the MEFANET portal in IK device will be additional adjustment of MEFANET portal in terms of specific uses of IK - creating the conditions for incorporation of electronic educational material into MEFANET portal in accordance with the functionality of the IK.



Figure 1: testing prototype

## References

- [1] James D. B. (2007, July). Debian Internet Kiosk with Firefox 2 HOWTO (outdated). [Online]. Available: <http://jadoba.net/PLUG/kiosks/howto/>