ELECTRONIC NOTICE BOARDS

So, basically it's a device that displays posters for events and notices on a L.C.D screen.

Why do we need such a device?

The main aim is eco-friendly posters and saves money for printing the posters. Also these posters can provide animation effects as well which printed posters can't.

Why is this product an idea for an ITSP project?

In the institute there are a lot of posters for various events and notices from the institute/hostels being put up on the notice-board. This project aims at giving a new look to the posters and the notice boards.

What will we do in this project?

1) Buy L.C.D screen for the display
2) Use a microcontroller to display data on to the screen
3) Supply USB port for the user to input the poster. We are also planning to use Bluetooth for receiving the data.

4) Add a touch screen to the display so that one can add notes such as change in timings or so. It can also be used to create short hand-written notices.
5) Add security features to prevent unauthorized use of the notice-boards.

Goal for ITSP:

Make a prototype of an electronic notice-board that can process user's input (posters/hand writing) effectively, stores them and displays various poster one after another.

Team composition:

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Components Required:

○ Display Screen
○ Touch sensors
○ Microcontroller with USB input
○ Battery/ac-dc converter

Later on

It can even turn this into a Technovation project if the results by the end of the summer are promising.

Plan of action

1. Process a .jpg file and display it on a screen using a microcontroller.
2. Add touch screen feature to improve user interactions.
3. Use touch screen to create new notices.
4. Add facilities to improve poster being displayed more effectively based on its time and date.
5. Add secured way of adding new posters through authentications.