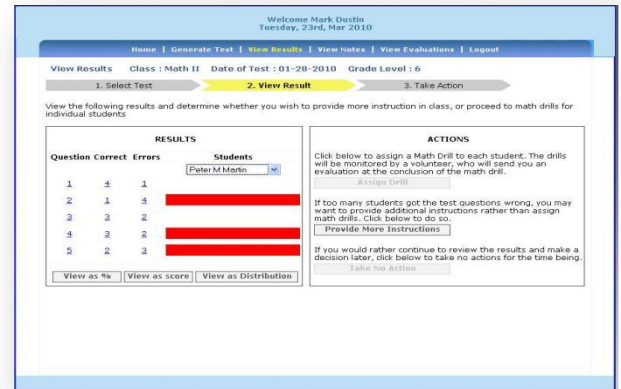# Automated Education Evaluation System

PHP, Java OMR & Bar Code Solutions for Education and Learning Industry

Executive Summary

When it is about improvement of quantitative skills of the students, and making a robust, secure, scalable system for the education and learning industry, Mindfire understands that the system needs to be completely foolproof. The client had a need to create a complete online, web-based system for an education package which could help students take up courses as per their weak areas, appear for tests, get measured on their performance and remedial courses suggested, automated. Expert architects at Mindfire designed the overall architecture and the system workflow from the concepts relayed by the client. The system was built in Java, PHP and MYSQL 5.x, ensuring scalability. With Open Source Java OMR utilization in the application, the EES (Education Evaluation System) removed the last piece of manual labor and made the application fully automated.

The Mindfire Solution

> Mindfire proposed an application using Java OMR which is an Open-Source optical mark reader along with bar-code functionality. And because it is open source, this is not only free to use but also there is no threat of stopping of support or scalability issues with this technology.

Mindfire proposed an application using Java OMR which is an Open-Source optical mark reader along with bar-code functionality. The major challenge was to use Java Optical Mark reader (Java OMR) which could read OMR as well as bar code. Teacher and monitors do not have a direct interaction, so an auto scheduling feature was built to schedule the drill with any monitor based on their availability. Once the drill is over, a response is sent back to the teacher.

Technologies

- Technologies used: PHP 5.x, MYSQL 5.x, Java 1.1.6

Software System

This is an application designed to improve the mathematics skills of students. In general, the application is used to generate test, review answers, assign/monitor drills. Application is separated into following sections: **Administration section:** Manage area (district) information for which school(s) information can be added. General section: This is the section can be accessed by different types of users, such as Teacher, School Staff, Monitor etc.

Future Relationship

Mindfire established a strong relationship with the client firm, having been involved in another project in evaluation system in same technology. Mindfire is already into development of the second version of the systems, which have many new features implemented.