Team Name	Vidu Saviya Team
School	Mahinda Rajapaksha College Homagama
District	Colombo
Product / Project Name	Vidu Saviya
Category / Domain	Educational

Problem Definition and Analysis

We can't Evaluate a student considering only the results of a term test. There are many more fields that "Education" supposed to include. Student abilities in various essential fields of education like sports, arts, interpersonal-skills, corporation and etc... are not given a value inside school. The biggest downside of this is the hesitation of "common students" in these areas.

Solution

The easiest way to get through this is to motivate students in these areas. Vidu Saviya has a scoring system, which keeps track of all the students and their activities inside the school. Teachers report student activities and desired scores to the system via Website/School Office (Which is very easy). Also, the school exam scores will be collected and processed in Vidu Saviya cloud. These data will be analyzed in the cloud and actual student scores will be computed using machine learning. The reports generated in the Vidu Saviya website will be displayed in school, promoting highly active students and motivating other students to be "multi-talented" and "positive minded".

However, we have created subsystems for student/teacher attendance management, school library, Exam Management and teacher-parent-student notifications. We also use these data to measure things like student flavors and mind states with help of machine learning. Therefore, Vidu Saviya is a huge system consisting of many features to make a Smart School.

Vidu Saviya can be briefly explained as a Student Motivational system for school.

Please watch this short video explaining about Vidu Saviya more wisely.

http://bit.ly/vidusaviyaIntro

Competitive products and Uniqueness

Vidu Saviya is not a school management system or anything similar. This is a Student Motivational system, which stays with students and educational side rather than Management. There are no similar systems we have seen so far.

Technical Overview

Vidu Saviya is 95% completed. But we still have some glitches and bugs in the system. Constantly evolving ML.NET machine learning framework is making things less stable. But we are working on it...
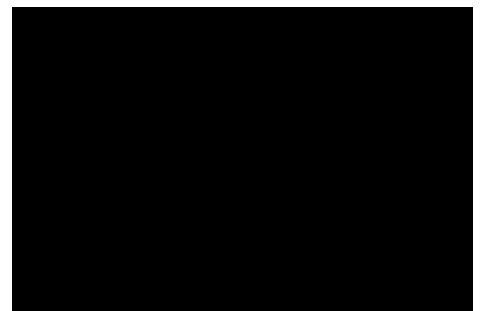
Technologies used: ASP.NET web server, ML.NET, SyncFusion, Bootstrap, Arduino/NodeMCU (IoT devices), RFID ...

Languages: VB.NET, C#, JavaScript, HTML, CSS, XHTML5, Arduino, C++

http://bit.ly/vidusaviyaEX

It's a bit hard to tell everything of technology in text. Therefore, please watch this technical explanation video for a quick overview at technology in Vidu Saviya.

User Scenario

There are four kinds of people to get benefits of Vidu Saviya,

1. ## Students

   Vidu Saviya is student oriented. Students can log in to the ViduSaviya web site of their school and view their progress, activities, rank, history and the predicted future. They are the ones to start a nice competition for school studies and activities. This will seamlessly improve the quality of education and student behaviors.

2. ## Teachers

   Teachers are the primary consumers of ViduSaviya. They can track students work, review their progress and apply remedies using the predicted results of students.

   Furthermore, Teachers can benefit from analyzed reports on students and details to increase efficiency of educational process. The automated exam management system and attendance marking system also easier their work. Teachers can enjoy providing a colorful student report to parents describing all about the student. The notification system will also come in handy to reach parents on time.

3. ## Parents

   Parents can log into ViduSaviya website to track their kids on school work as never before.

4. ## School Management

   Subsystems included in ViduSaviya like Attendance Management, Exam management, Library Management are there to help in school management. The biggest advantage of ViduSaviya is the ability to predict student results and do necessary treatments, before it could be too late. This also helps management to increase students' flavor in all areas of education effectively. The attendance prediction system will help to regulate student attendance patterns.

Team Details

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