



**GUJARAT TECHNOLOGICAL UNIVERSITY  
(GTU)  
INNOVATION COUNCIL (GIC)  
Patent Search & Analysis Report  
(PSAR)**



**Date of Submission : 24/09/2016**

Dear **Patel Miloni**,

**Studied Patent Number for generation of PSAR** : **16BE7\_130020107065\_4**

**PART 1: PATENT SEARCH DATABASE USED**

<b>1. Patent Search Database used</b>	:	Google Patents
<b>Web link of database</b>	:	<a href="https://patents.google.com/">https://patents.google.com/</a>
<b>2. Keywords Used for Search</b>	:	WEBSITE, STUDENT MANAGEMENT, PHP
<b>3. Search String Used</b>	:	Generating website using php for student management
<b>4. Number of Results/Hits getting</b>	:	9

**PART 2: BASIC DATA OF PATENTED INVENTION /BIBLIOGRAPHIC DATA**

<b>5. Category/ Field of Invention</b>	:	Computer/IT Engineering
<b>6. Invention is Related to/Class of Invention</b>	:	System and method for a virtual school
<b>6 (a) : IPC class of the studied patent</b>	:	G09B7/00
<b>7. Title of Invention</b>	:	System and method for a virtual school
<b>8. Patent No.</b>	:	US20090197234A1
<b>9. Application Number</b>	:	US12359930
<b>9 (a) : Web link of the studied patent</b>	:	<a href="https://patents.google.com/patent/US20090197234A1/en?q=website&amp;q=studentmanagement&amp;q=php">https://patents.google.com/patent/US20090197234A1/en?q=website&amp;q=studentmanagement&amp;q=php</a>
<b>10. Date of Filing/Application (DD/MM/YYYY)</b>	:	26/01/2009
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<b>13. Publication Date (DD/MM/YYYY)</b>	:	06/08/2009
<b>14. First Filled Country : Albania</b>	:	Albania

**15. Also Published as**

Sr.No	Country Where Filled	Application No./Patent No.
1	Albania	12/359930

**16. Inventor/s Details.**

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1	Creamer Damian	Chandler, AZ
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**17. Applicant/Assignee Details.**

Sr.No	Name of Applicant/Assignee	Address/City/Country of Applicant
1	AMERICAN VIRTUAL ACADEMY Inc	400 EAST VAN BUREN, ONE ARIZONA CENTER PHOENIX AZ 85004-2202 US

**18. Applicant for Patent is** \_\_\_\_\_ : \_\_\_\_\_ College

**PART 3: TECHNICAL PART OF PATENTED INVENTION****19. Limitation of Prior Technology / Art**

The present invention is directed at a software system for use in an online educational environment. In one embodiment, a software system combines and allows communication between a student management system, a learning management system, and various other portals are interconnected and communicate with one another to allow for an completely integrated online educational institution that allows patents, students, and educators to plan and monitor a student's progress.

**20. Specific Problem Solved / Objective of Invention**

CROSS REFERENCE TO RELATED APPLICATIONS

[0001]

This application claims benefit and priority of U.S. Provisional Patent Application Ser. No. 61/025,068 entitled "Management System For Online Education Providers" filed on Jan. 31, 2008.

FIELD OF INVENTION

[0002]

The present invention relates to an improved software system for managing students enrolled in an online educational program. More specifically, the present invention is directed at an improved software system for an education provider to enable an efficient, seamlessly integrated Virtual School.

**21. Brief about Invention**

The detailed description of exemplary embodiments of the invention herein makes reference to the accompanying drawings, which show embodiments by way of illustration and best mode. While these embodiments are described in sufficient detail to enable those skilled in the art to practice the invention, it should be understood that other embodiments may be realized and that logical and mechanical changes may be made without departing from the spirit and scope of the invention. Thus, the detailed description herein is presented for purposes of illustration only and not of limitation.

[0017]

For the sake of brevity, conventional data networking, application development and other functional aspects of the systems (and components of the individual operating components of the systems) may not be described in detail herein. Furthermore, the connecting lines shown in the various figures contained herein are intended to represent exemplary functional relationships and/or physical couplings between the various elements. It should be noted that many alternative or additional functional relationships or physical connections may be present in a practical system.

[0018]

In one embodiment, the system includes a user interface (UI), a software module, logic engines, numerous databases and computer networks. While the system may contemplate upgrades or reconfigurations of existing processing systems, changes to existing databases and business information system tools are not necessarily required by the present invention.

**22. Key learning Points**

The subject invention will hereinafter be described in conjunction with the appended drawing figures, wherein like numerals denote like elements, and wherein;

[0011]

FIG. 1 is a block diagram depicting various system components for a virtual school system, in accordance with one embodiment of the present invention;

[0012]

FIG. 2 is a flow chart depicting representative process for configuring a virtual school, in accordance with one embodiment of the present invention;

[0013]

FIG. 3 is a flow chart depicting a representative application process, in accordance with one embodiment of the present invention;

[0014]

FIG. 4 is a flow chart depicting a representative process for assigning classes to a student, in accordance with one embodiment of the present invention; and

[0015]

FIG. 5 is a flow chart depicting a representative process for coordinating a standardized test, in accordance with one embodiment of the present invention.

### 23. Summary of Invention

The present invention provides systems and methods to define, automate and implement processes and tools for a virtual school. In one embodiment, the system comprises numerous interconnected applications and software subsystems that are configured for the total management of an online educational institution.

[0007]

In one embodiment, a virtual school system provides dynamic, customizable user interfaces, data processing functions, process definition, rule definition and rule evaluation capabilities, workflow functionality, interoperability with existing educational and government systems and processes, and planning, reporting, audit and compliance functions. The virtual school system ("VSS") comprises a student management system ("SMS") for managing a plurality of students, a learning management system ("LMS") for managing and delivering the content of a plurality of online courses and a school administration system ("SAS") for managing the administrative functions of at least one virtual school. The VSS further includes a workflow engine to define processes, evaluate predefined rules and automate workflow, and a central data repository to store, manage, track and integrate comprehensive data for an educational environment. The VSS provides relevant content and rich functionality to users through dynamic and customizable user interfaces.

[0008]

In one embodiment, a system and/or method allows students to completely enroll online. According to this embodiment, the SMS is configured to allow faculty and staff at an online educational institution to properly admit students, provide them necessary guidance counseling and various other instructions. A parent/student portal ("PSP") provides parents and students access to an LMS and numerous other portals and databases such as client database and a standardized testing database. Therefore, the system of the present invention manages a student's entire educational process from admission through graduation or course completion.

[0009]

In one embodiment, the system comprises a software based student management system in communication with a learning management system. The student management system of the present invention is configured to enable an online educational system provider to manage its student body. Further, according to another embodiment, the student management system is configured to enable staff members to contact and follow up with one another to ensure that all students' needs are adequately met. According to one embodiment, the software system further comprises a parent/student portal. According to another embodiment, the system of the present invention further comprises an application portal that enables student to apply for admission into an online educational program.

24. Number of Claims : 56

25. Patent Status : Published Application

### 26. How much this invention is related with your IDP/UDP?

< 70 %

### 27. Do you have any idea to do anything around the said invention to improve it? (Give short note in not more than 500 words)

While the patent provides a very strong and a pretty reliable method for securing the database in the ERP, we have to keep in mind that the software world and the technological world is a constantly evolving one. Hence what seems to be technically impenetrable today, might end up being just another common security measure after 10-15 years (or even less!).

Hence, keeping the everchanging security methods at the center of the idea, we can improvise the current datasource proxy method in such a manner that it can avail benefits from the technological advances of the latest year and protect the data successfully even against the most determined of attacks.

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