Volume : 1 | Issue : 5 | Nov 2012 • ISSN No 2277 - 8160

Research Paper | Computer science

A Novel E-Governance System for Educational Sector – Student Uniqe Id

Priyank Gokani Asst. Professor Sunshine Group of Institutions (Faculty of MCA)

Dr. H. N. Pandya Professor & Head, Department of Electronics, Saurashtra University, Rajkot

ABSTRACT

E-governance is these days become so much popular for good performance and as we know educational sector is growing day by day and it needs various systems for making tasks smooth. So here with I am going to represent "A NOVEL E-GOVERNANCE SYSTEM FOR EDUCATIONAL SECTOR – STUDENT UNIQUE ID" Student Unique ID is a unique in its kind of e-governance system. Student Unique ID provides various facilities to government and citizens also. Student Unique ID (SUID) as its name suggest provides a unique ID for student of India. In this system student has to register them selves for getting SUID. This system provides a Unique ID to each and every student who registers them selves with this system. This system keeps record of every student of India on regular update basis. Student has to update their profile as and when they improve their academic profile. As this is a Student Unique ID system this system works better for placements also for students of India. By implementing this system government can close down employment exchange department of India because the data which is being provided by this system is helpful for every placement agency and HR of various industries and for government also. This system helps government in improving quality of education and ratio of education in India. Because this system provides percentage of education for each and every branch, state etc Student Unique ID system is going to improve educational system of India by various aspects like quality of education, placement for students.

KEYWORDS :

E-governance In India

The actual term governance comes from an ancient Greek word, kebernon, which means to steer. In current usage, to govern means to steer, to control, and to influence from a position of authority. According to Former Secretary General of the United Nations: Kofi A. Annan, "Good governance is perhaps the single most important factor in eradicating poverty and promoting development." Therefore, governance is an exercise of power for steering social systems, as well as a process by which organizations are directed, controlled, and held to account to their society. It is a set of the systems and processes concerned with ensuring the overall direction, effectiveness, supervision and accountability of an organization. E-Governance involves new styles of leadership, new ways of debating and deciding policy and investment, new ways of accessing education, new ways of listening to citizens and new ways of organizing and delivering information and services. e-Governance is defined as "E-governance is the application of information & communication technologies to transform the efficiency, effectiveness, transparency and accountability of informational & transactional exchanges with in government, between govt. & govt. agencies of National, State, Municipal & Local levels, citizen & businesses, and to empower citizens through access & use of information". In other words e-Governance is the implementation and delivery of government services through the information communication technology to provide Transparent, Effective, Efficient, Responsive and Accountable governance to the society.

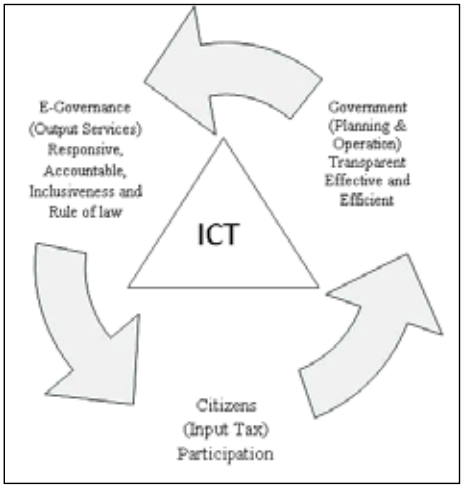

Figure 1: Conceptual model of e-Governance

and efficiency, Responsiveness, Accountability, Equity and inclusiveness, Rule of Law, as in for the effective and efficient governance. If all these properties revolve around the ICT will explains innovative definition of e-governance as in figure1. This means e-Governance has all the above properties as well as innovative Information and communication Technology for the effective and efficient governance in any sector which assures that corruption is to be minimized, the views of minorities are taken into account and that the voices of the most vulnerable in society are heard in decision-making. It is also responsible to the present and future needs of society. A conceptual model for e-Governance is shown in figure-1 which explains about the interrelation between citizens, government and the services accessed by the citizen's through information and communication technology followed by the major characteristics of good governance.

Introduction to SUID

SUID stands for Student Unique Identification. We know that education is an important for our society. Student who are studying in our country are not aware with various procedures of their fields they have so many doubts and confusions and when they are not getting proper solutions it leads them to take wrong decision or misunderstanding which is not good. By implementing this system Government and Citizen both will have so many advantages but among of them few I have listed here.

About concept of SUID I would like to share that we should have Unique Identification No. In this student has to register them selves with all the details of their academics and personal details. Regarding uniqueness of no. we need to get bio-metric image of particular student and current photograph of the student.

Features of SUID

(1) Centralized Management of Student's Data

By applying this system in educational sector we can centralize data of student of whole country. Which can help us in so many ways. It Supports a culture of inquiry within the school system, enabling teachers to identify groups of students who are struggling and organize interventions to drive better academic performance. Enables more accurate monitoring of student achievement. For example, analyzing students' report cards against their standardized test scores helps administrators understand teacher learning needs in order to improve assessment practices. Significantly reduces manual workload. For example, tracking cohorts of students is now an instant, automated process, saving at minimum two days' work per school.

(2) Centralized Agency for Placement

By having this system we can remove the whole employment exchange

department and the department for this system can work for the placement of the students and because it is centralize whole country's private and government sector units can directly contact this agency and get better candidate for them. By this agency students also get one reliable agency for placement and they do not need to register them selves to any other agency for employment.

(3) Improvement in Quality of education
By Implementing this system in educational sector the authority can get idea about in which area or subject students are not doing well and at which point we need to improve our education system. Because here we are getting everything online and updated regularly so government can get any kind of data and based on that they can came to any fruitful conclusion and can take any decision in favor of education system.

(4) Transfer of institutions become easy
Here in this system of SUID (Student Unique Identification System) every student are getting a unique SUID so when any student wants to change his institute he just need to apply at particular institute with his unique Identification no. and that institute will check whether student is eligible in his institute or not if he is then they will give the approval to student and student will apply to appropriate center for changing of institute with approval of institute. So this way transferring from one institute become very easy for student.

(5) Student can update their academic record online
Student Unique Identification System is having very important feature that student can update their academic records by showing their document proofs at authorized centers of Student Unique Identification System. So in advantage student can get placement related information if they are eligible and government can get exact figure of students in various faculties like Management, Computer Science, Science, Medical, Engineering etc…

(6) Automated Government Reporting
The solution has also enabled schools to automatically generate Ministry of Education reports, which in some cases used to take days for administrators to review. The reports are now pre-populated with data, which saves days of work per school. "The time-savings are certainly impressive," comments Diane Findlay. "However, the most significant result is the ability to see data from a perspective that is more meaningful. The technology has allowed us to use data in a more sophisticated manner, driven by what we need to know rather than what we can easily acquire."

(7) Benefits of a standardized approach
Since all the members of SUID for Success utilize a shared set of analytical tools, the solution also makes it easier for them to work together, and provides a greater degree of consistency when reports need to be submitted to Ontario's Ministry of Education.

(8) Automated, high-detail analytics
As a further example of how the solution saves time and effort for school boards, SUID for Success provides reports that can track cohorts of students from grade nine to graduation. With a traditional approach, this type of analysis would take one full-time employee at least two days for each school. Extrapolated across an entire school board, this adds up to a significant amount of time saved. SUID for Success also enables school boards to process large data-sets at a very fine level of detail – often down to the individual students.

Diane Findlay continues: "As an example, we want to see not only the percentage of students who are meeting standards, but also the movement of each student across the entire board. Our solution allows us to see who moved up and who moved down instead of just looking at overall numbers. We can visualize the data in a way that uncovers significant trends within large data-sets. We could never have afforded the resources to do this manually, and it facilitates a much richer conversation than simple overall results could afford."

Conclusion
Now by all above discussion we came to one conclusion that if education ministry of our country seriously thinks to implement this system in educational sector then this system can deliver so many advantages to citizens as well as government too. So from above advantages and other points we can say that this system is very beneficial.

REFERENCES

(1) http://www.ibm.com | (2) http://uidai.gov.in (aadhar card system reference)