

Company Overview

Insystech is an information technology company and service provider. Our mission is to provide the highest quality service and intelligent solutions to our clients while providing the best value. From our inception in 1997 we have provided IT services to K-12 Public Schools. We have grown to a solutions provider and implementers of State-wide Enterprise Systems. We are most proud of the long term relationship we have sustained with School Districts and the 80% repeat business we have achieved from our Education Customers.

Education Domain Expertise

1. Effective School-Wide Discipline Minor Referrals System for Fauquier County Public Schools (FCPS1)

At FCPS1 the Student Information System (SIS), StarBase, is used to capture all incidents which are formally “written up”. The ESD Minor System will enable schools to capture more minor incidents in order to determine causes and trends, and take action to pre-empt more serious offenses and to promote school-wide positive behavior. Documentation and analysis of these minor discipline-related infractions is central to effective school-wide discipline.

Insystech developed this as a turnkey solution. It is a web-based system, tightly integrated with the FCPS1 SIS. Data collected in the ESD Minor System is stored in the same database as the SIS in specific, additional tables. This application is available to authorized users through the FCPS1 active directory authentication on their current machines through the web. Insystech also supported training the end users.

2. Student Performance Dashboards for Henrico County Public Schools (HCPS)

Insystech worked under a contract from Century Consultants (developers of StarStudent Student Information System) to develop a set of data marts and dashboards for their SIS. HCPS was selected to be the pilot customer. Insystech worked closely with the HCPS Instruction team to gather requirements and design the dashboards. Insystech gathered formative and summative assessments data, developed the dashboards, setup user authentication through active directory and supported HCPS in deploying the system in their environment.

3. Applications Management Support for Fauquier County Public Schools (FCPS1)

Insystech provides applications management support through a contract with FCPS1. Insystech supports FCPS1 in managing (trouble-shooting, tuning, optimizing) several Applications. The applications include Student Information System, Special Education System and Transportation System. The types of services includes, Database Administration and Management for SQL Server and Oracle databases, Data Backup and Recovery, Test, Training Environment Setup, Data Import and Export, Web Server and Application Server Management, Windows and Linux Servers Management.

4. Standards Of Learning (SOL) Data Load into StarBase for Fauquier County Public Schools (FCPS1)

FCPS1 required that all available data from SOL test results be loaded into the Student Information System (SIS) StarBase, in a timely manner with no or very little manual data entry. Some of the key requirements for this system were the ability to audit all of the records that were received in the test results data set(s) provided by Virginia Department of Education, and to ensure that the results data is correctly associated with the appropriate student.

Insystech developed a web-based application using Oracle Application Express and back-end data processing using PL/SQL Packages. This system includes design features that would allow the FCPS1 IT team to easily enhance it to process future SOL test results data. Insystech worked closely with the FCPS1 IT team to ensure that the system is tested thoroughly and that all SOL test results data sets were easily loadable into the SIS. This system is currently used by FCPS1 to load SOL test results data.

5. Standards Of Learning (SOL) Aggregator for Fauquier County Public Schools (FCPS1)

The SOL Aggregator was a web-based solution used to quickly disseminate SOL test results data to FCPS1 school principals and other administrators, used prior to the implementation of the StarBase Testing Module. Insystech developed SOL Aggregator as a COTS solution and made it available to FCPS1 as a hosted software solution. Insystech team worked closely with the Testing and Accountability team at FCPS1 to ensure that student test performance history and other reports were available for decision makers. The SOL Aggregator included multiple years of data and provided historical trends and other information typically available in data warehouse, decision support systems.

6. West Virginia P-20 Statewide Longitudinal Educational System for State of West Virginia

Insystech designed, developed, and implemented a P-20 Statewide Longitudinal Educational Data System (SLED) for the State of West Virginia. This system is designed to provide one-stop shop education decision making information to the state legislature, policy makers, researchers, school district, and other users from the West Virginia Higher Education Policy Commission (WVHEPC), the West Virginia Department of Education (WVDOE), the West Virginia Department of Labor (WVDOL), the School Districts and the general public.

The Insystech team performed full software development life cycle tasks and has successfully deployed the system in production at WVNET (a WV government entity that operates and maintains information systems for several state agencies and educational institutions). Presently, the Insystech team provides transition support to the WVNET and WVHEPC, WVDOE teams to help WV manage the system from the upcoming fiscal year.

7. Electronic Curriculum Assessment Resource Tool (eCART) for Fairfax County Public Schools (FCPS)

Currently, Insystech is participating in the design, development, and support of an integrated curriculum repository and instructional management system, eCART in FCPS. This system contains a robust curriculum repository for all courses being taught at FCPS. It is aligned with Virginia Curriculum Standards and the State Standardized Tests (SOLs). Question banks for formative assessments and benchmark tests are managed in this system and are available for individual teachers to create class tests, quizzes, etc. This system is integrated with a third party test player to conduct online testing of students. The eCART system is integrated with EDSL, the data warehouse, to provide the ability to analyze the information available in the form of pre-published and dynamic reports and graphs.

8. Education Decision Support Library (EDSL) for Fairfax County Public Schools (FCPS) and other VA School Districts

The Education Decision Support Library (EDSL) is a patented, award winning, enterprise wide K-12 data warehouse application, designed and implemented successfully by Insystech. It is a web-based decision support system/data warehouse built especially for the management of school districts.

Insystech has participated in pioneering efforts in the design, development, and management of EDSL. Insystech continues to provide a variety of services to FCPS to maintain and enhance EDSL. In addition, Insystech has also offered EDSL as a hosted solution to several other school districts in Virginia. Through EDSL both FCPS and other districts have succeeded in making “data driven decisions”, “creating school improvement plans” and in improving the quality of education of their Students.

9. MyStudentCare for Houston Heights Learning Academy

Insystech designed, developed, marketed, and implemented MyStudentCare for the Learning Academy, which is an innovative solution for both web and mobile platforms. MyStudentCare offers administrators a way to move forward with the latest technology, easing the administrative burden. With MyStudentCare, schools increase the ability to administer activities and coordinate fund raising events and volunteer efforts. Student health information is readily available to school health officials and first responders, yet remains private and secure. Parents are notified instantly of upcoming activities, announcements, or student disciplinary measures, thus enabling parents to take immediate action through their mobile phone or computer.

10. IntelleClass for Fauquier County Public Schools (FCPS1)

IntelleClass is a state-of-the-art, virtual instructional system. It operates on a virtual instruction platform that includes real-time collaborative teaching integrated with a learning management system. Teachers can conduct classes through virtual classrooms and communicate with the students through audio and video using web cams, microphones, and head sets. Students can actively participate in the virtual class by writing on the virtual whiteboard, which displays to the teachers and other students. Teachers can also post homework assignments that the students can access through the system and respond. IntelleClass can be utilized by any trained teacher for any subject.

11. Instructional Curriculum Repository for Charles County Public Schools (CCPS)

Insystech is currently working closely with (CCPS) in Maryland to customize, enhance, and implement a Curriculum Repository (CR) for use by CCPS teachers. The CR has Maryland State Department of Education (MSDE) State Curriculum and Instructional Resources created by CCPS curriculum specialists, aligned to the MSDE Curriculum. As part of this project, Insystech has implemented the Solr Search Engine to allow CCPS teachers and other users to easily find instructional content. Insystech is currently hosting the CR and the Solr Search Engine used by CCPS in an Amazon Cloud.

12. Race Ethnicity Data Collection Portal for Fauquier County Public Schools (FCPS1)

Due to the recent changes in Federal laws, FCPS1 needed to collect more detailed race, ethnicity descriptions for all the FCPS1 Students. Insystech was tasked to develop a simple, easy to use web portal for FCPS1 with parental access to provide the required information. The Insystech team developed a portal that included all the relevant information and hosted this portal. All authorized FCPS1 school staff were also provided access to this system. FCPS1 school staff was able to see tabulated response rates and details of the response for each student. Responses were tracked and email reminders were sent to non-respondents. All information collected through this system were extracted and made available to the FCPS1 Student Information System.

13. Instructional Technology Resource Teacher (ITRT) Activity Log System for Fauquier County Public Schools (FCPS1)

FCPS1 needed to track ITRT activities to increase accountability and effectiveness of the ITRTs in supporting the classroom teachers. FCPS1 provided a statement of work to Insystech to develop a turnkey solution that can be used by all the ITRTs. The Insystech team developed a simple, easy to use application using the Oracle Application Express tool. This application was deployed within the FCPS1 Intranet. Users were authenticated through Active Directory, so, they were able to connect to the system through their standard FCPS1 network login credentials.

14. eduCensus: Census data collection and processing solution for Multiple Virginia School Districts

Insystech designed, developed, and implemented a web-based, turnkey solution for Virginia school districts to gather and process census data. Virginia school districts are required to gather "school age children" census data every three years. This census application was used to gather residential address data from various sources and process them. The census survey form was printed in English and Spanish (as needed) and sent to residents. The residents were provided the option to respond to the census via the Web, IVR (Interactive Voice Response), or postal mail.

All responses were gathered in one central database and made available to the School Census Administrators in the form of searchable web pages and reports. Once finalized, the information was grouped and presented in the form of state and district reports for planning purposes. Both the web pages and IVR voice prompts were made available in English and Spanish, as required, by the customer school districts.

Tools and Technology Expertise

Development Frameworks:	Microsoft .Net, Java Swing, MVC (Model View Controller)
Development Methodologies:	SDLC, Agile
Programming Languages:	C#, VC++, VB, Java, PL/SQL, SQL, Cold Fusion
Databases:	MS-SQL Server, Oracle, MySQL
Web Servers:	MS-IIS, Web Logic, Apache/TomCat
Web Technologies:	Ajax, JavaScript, HTML, DHTML, XML, CSS
Operating Systems:	Windows 8, 7, XP, Advanced Server/ Enterprise Server 2003/8, Linux, Unix, Solaris
DB Design Tools:	ERWIN, Toad, MySQL Workbench
Office Suite/Tools:	MS Office (Word, Excel, PowerPoint, Access, Visio)
ETL:	Informatica, IBM DataStage, Oracle Warehouse Builder
Reporting Tools:	OBIEE, Oracle BI Publisher, Crystal Reports, SSRS, SSIS

Roles

Insystech has highly qualified, trained staff to fulfill any of these roles. Our staff is high caliber native English speakers. We have the ability to listen to our customers and work diligently to solve their technology and business problem(s). Examples:

- Web Developer
- Mobile Apps Developer
- Database Architect
- Database Engineer
- Data Warehouse Analyst
- Network Security Analyst
- Application Security Analyst
- Network Administrator
- Disaster Recovery and Contingency Planner
- Computer Technician
- Network Engineer
- Microsoft Systems Engineer
- Quality Assurance Analyst
- Business Analyst
- Technical Project Manager
- Trainer
- Technical Writer

School District Customers

- Fairfax County Public Schools, VA
- Fauquier County Public Schools, VA
- Charles County Public Schools, MD
- Talbot County Public Schools, MD
- Houston Heights Learning Academy, TX
- Alexandria City Schools, VA
- Alleghany County Schools, VA
- Rockbridge County Schools, VA
- Henry County Schools, VA
- Henrico County Schools, VA
- Salem City Schools, VA
- Montgomery County Schools, VA

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