IT Innovative Solutions, Corp.

IT Innovative Solutions, Corp. (INOVAS) is a mission-driven, Information Technology management-consulting firm with a focus on serving our customers while providing creative solutions for their complex problems. We specialize in providing high-quality customized web-based applications, surveys and case management systems. Our solutions are both cost-effective and creative. We deliver our solutions with scalable architecture using the best hardware and software technologies available.

Survey Planning

Custom designed surveys to meet the data needs of analysis requirements.

Data Design and Development

Ensure a high level of quality data, efficient processes, integrity and security.

Data Collection

Customized, turn-key information management solutions that simplify the data collection process.

Data Analysis and Dissemination

Tools to analyze and disseminate collected data from every possible angle.

Project Management

Consistently deliver, on time and within budget, projects that meet or exceed stakeholders' expectations.

Secure Data and Facility

FISMA-compliant monitoring of active directory. PIV cards and two-form- factor authentication to ensure that only authorized users access our facility, servers and computers.

Campus Safety and Security Systems

The Campus Safety and Security (CSS) system is used to collect, analyze, and report data related to campus crime and fire safety at more than 7,000 postsecondary institutions in the United States. The system is comprised of two parts: 1) **Data Collection:** The online CSS survey is conducted annually by OPE to collect campus crime and fire safety statistics from every college, university, and technical and vocational institution in the United States that participates in federal student financial aid programs. 2) **Dissemination System:** INOVAS processes the CSS survey data and migrates it to the system's *newly redesigned* dissemination application. Once approved, the data are made publically available through the online Campus Safety and Security Data Analysis Cutting Tool. Through this dissemination website, users can download crime and fire statistics, compare data at different schools, and generate trends.

Learn more at http://ope.ed.gov/campussafety/.

The collection system includes several features that were custom designed by INOVAS for more efficient data collection, improved data quality, and reduced respondent burden:

- **Skip Patterns.** Complex algorithms are used to dynamically manage work flow and expedite the surveying process and ensures faster, more accurate data entry.
- **Universe Maintenance.** Customized utilities are provided for simple and efficient maintenance of the respondent universe.
- **Administrative Tools.** A wide-range of administrative tools are available to help manage the extensive IPEDS data collection process.
- **Data Integrity and Reviews.** To ensure data quality, built-in edit checks are performed throughout the data entry/upload process to immediately identify potential errors based on predefined rules stored in the database tables.

The dissemination system includes five tools for data retrieval and analysis:

- **Get Data for One School.** Search for a school to view general information and the past three years of safety- and security-related statistical data for the entire school or by campus.
- **Compare Data for Multiple Schools.** Select up to four schools to see a side-by-side comparison of aggregated data for the most recent year, along with an option to view the number per 1000 students.
- **Download Custom Data.** Select the safety- and security-related statistical data you are interested in for one or more years and download data for a customized group of schools.
- **Download Data.** Download the complete data file for all institutions from a single data collection. Files will include all data submitted by all institutions in the selected survey year.
- **Generate Trend Data.** Select a subject area and a question that you are interested in, and then see the answer for a selected year, build a table, and see a graph that shows the trend over time. You can customize your results by various institutional characteristics such as public or private, 2-year or 4-year, or state.

Technologies Used:
Collection:
Microsoft C# / ASP .NET
Microsoft SQL Server
Dissemination:
Microsoft C#/WEP API/ Microsoft SQL Server, AngularJS, JavaScript, HTML5, CSS3

Technical Size and Scope:
Collection:
Lines of Code: 221,850
Average Database Size: 2300 MB
Prior Year 2500 MB
Institutions Reporting: 7,800
Users: 16,800

Dissemination:
Lines of Code: 3,538
Average Database Size: 1316 MB

Security:
Collection:
User Authentication
Data Encryption

Dissemination:
None

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