SHIELDCAMPUS

White Paper Organizational Specifics

I.   Requested Action

Because of the need for a comprehensive application which can facilitate attendance, behavior and crisis management within a school or organizational setting, ShieldCampus is providing this information to support the implementation of this unique system in all public and private schools.

II.   Identified Need

Schools need to take live and ongoing attendance in order to have an accurate count of students, staff, faculty, and visitors along with their location and safety status, if necessary. Schools need to be able to address behavior with both positive and negative reinforcement as they choose. Schools need to be able to address crisis situations in real time and be able to instruct stakeholders on what the crisis plan is for any given situation, as defined in their emergency plan. Schools need to be able communicate all of this data collected with stakeholders in real time. ShieldCampus combines all of these needs into one application which can be easily implemented and installed on any device and on any platform with internet access.

III.   Specific Requested Action

Because of the compelling need to address school attendance, behavior and crisis management all in one application, we have created and unique platform called ShieldCampus which once implemented allows schools to address these components in one application that was specifically designed for schools by educators. This ShieldCampus application allows users to access real time data in the event of an emergency while also allowing them to have instant communication

in crisis situations as well as normal routine communication to all stakeholders within a school campus.

Our research shows that attendance is one of the most important factors in positive school performance and has shown to be a major contributor to increased academic performance in all schools settings regardless of socioeconomic indicators. The data has proven that behavior management systems which incorporate positive reinforcement increases positive behavior more than any other model and ShieldCampus was built with positive reinforcement as a core value. ShieldCampus allows schools to have real time attendance and crisis management woven together which has been proven to allow first responders to perform their job with higher effectiveness in real crisis situations.

IV.   Institutional Uniqueness

ShieldCampus is unique because it has combined all of the components which schools need. Attendance, Behavior Management and Crisis Management all in one application with the ability to customize each component for the school's needs. Electronic and real time check-in and check-out features combined with live data reports makes ShieldCampus the number one provider of this type of tool in the market while allowing school campuses to be safer for students, staff, faculty members, and visitors and communication with all stakeholders to be instant and seamless.

V.   Conclusion

While there are many systems which can facilitate one need of a school, ShieldCampus is a comprehensive application that includes all components and needs of schools which can be easily customized, implemented and maintained while providing schools instant access to attendance, behavior, and accountability during critically dangerous events. This application is consistent with the requirements of the school's Code of Conduct and emergency plan and allows for school administrators to have a more concise and consistent process for communication with all stakeholders and keep their campus safe.

VI.   Technology Requirements in ShieldCampus

Visual Studio

ShieldCampus was developed using Microsoft's Visual Studio which includes a complete set of tools used for creating HTML5 based applications. The key component of Visual Studio used in the development of ShieldCampus is the .net component C#. C# and .net are used by a number of developers worldwide.

SDLC Model

The Agile Software Development Lifecycle Model is used in the development of ShieldCampus' components and modules. The Agile SDLC model focuses on incremental cycles used to deliver product features in a continuous and sustained manner. This model is being used to allow the development of ShieldCampus to rapidly expand based on the quickly changing landscape in the crisis management space. Stakeholders and module owners manage product features through

mini development cycles. The mini development cycles save time because the stakeholders and owners collaborate to achieve specific goals that are not overwhelmingly in depth or complex. As one mini development cycle ends, the next begins and features begin to take shape. In addition, the agile model can focus on incorporating dynamic changes into the SDLC as the timeline progresses.

SQL Server 2012 R2 Database

ShieldCampus is built on top of Microsoft's SQL Server 2012 R2 using open database connectivity (ODBC) standards. SQL Server 2012 R2 is a very efficient database engine that can process millions of transactions and has uptimes of 99.95%. The administrative tools provided by SQL Server 2012 R2 make maintaining, backing up, and servicing the database simple and straightforward. In addition to the stand alone benefits of SQL Server 2012 R2, there are added benefits in using it in conjunction with .net as the component features fit hand in glove.

User Experience (UX) Considerations

ShieldCampus is designed to work on any device, within any browser. Recommendations for optimizing UX is to use the Google Chrome browser on a smart device such as an iPhone 7 or higher or a Samsung 7 or higher. ShieldCampus can be used on a desktop, laptop, or iPad/tablet, however, we still recommend using Google Chrome as the browser option. The ShieldCampus application is a web-based application that does not require you to download or install anything from any app store. ShieldCampus can be accessed through the application website: http://www.shieldcampusapp.com.

Conclusion

ShieldCampus is built using heavily tested standardized tools that are used by millions of developers every day. ShieldCampus is developed using the modern Agile SDLC model to help deploy needed innovations in the crisis management technology world quickly, securely, and with the top level of compliance. ShieldCampus is built on top of a database engine that is both designed to work within the .net environment and powerful enough to manage the most complex database requests. The recommended UX environment for ShieldCampus is used by over 1 billion users every day. On top of that, ShieldCampus is designed and built for the mobile environment and therefore, is device friendly by design. ShieldCampus is built using a standard platform, using a standard SDLC, on top of a powerful standard database engine, intended to be used on a common and standard browser anywhere in the world where internet is accessible. To find out more about ShieldCampus, please visit our website http://www.shieldcampus.com.