TOKARA® SOLUTIONS

APEX DEVELOPMENT

SALESFORCE CONSULTING SERVICES

You created it—now customize it. Add specialized business logic to your Salesforce1 Platform applications with Apex Code development.

APEX CODE EXPANDS CLIENT-SIDE FUNCTIONALITY

The Salesforce1 Platform features a user-friendly interface and simple application development tools that make it easy for any employee to create custom mobile solutions tailored to specific business needs and objectives. In addition to developing new applications, employees can also use the Platform to enhance the abilities of their existing, client-side programs, moving their functionality from the browser to the Force.com platform, an on-demand, multitenant Web environment.

Using the Salesforce1 Simple Object Access Protocol Application Programming Interface (SOAP API), developers can add customization to existing browser-based applications, applying commands such as “delete,” “upsert” and “update” to the solutions for use in the Platform environment. However, functionality may be compromised during this transition, as the controlling logic for the programs remains on the client side, not the platform servers. Restrictions include not only the performance costs of the multiple round trips required to the Force.com site for processing, but also the expense and complications of hosting server code in a robust and secure environment. To this end, Salesforce1 created Apex Code, a strongly typed and object-oriented programming language that allows developers to integrate their own Data Manipulation Language (DML) commands into current client-side programs, expanding functionality.

Through our Apex Code development services, Tokara Solutions can not only help your organization extract new functionalities from existing programs to facilitate smother transactions, but also maximize the return on your Salesforce1 investment by exploring the full realm of development possibilities afforded by the Platform.

Enjoy the benefits of a multi-tenant, on-demand programming language that optimizes client-side programs without the added costs of supporting and hosting server code.

WHY IMPLEMENT APEX CODE

While the Salesforce1 platform allows your team to create new mobile applications directly within the Force.com site itself, your organization does not have to abandon its existing, tried-and-true processes and proven best practices when migrating operations onto the cloud. Available in the Salesforce 1 Performance Edition, Unlimited Edition, Developer Edition, Enterprise Edition, and Database.com, Apex code enables developers to not only keep current programs, but expand their functionality through unique commands built on customized logic.

Quick to Deploy: The execution time of requests generated through Apex code is the same as a standard platform request, so even the most customized applications run at the same speed and efficiency as all Salesforce1 solutions. Simple service requests or object triggers (such as a mouse click) execute code-driven responses for seamless operation and usability. Uncompiled code is sent through the application server and compiled into a set of instructions saved as metadata. When prompted, the server retrieves the metadata, which is sent through a runtime interpreter, to complete the action.

Built-In Force.com Integration: Interpreted, executed and controlled entirely by the Force.com platform, Apex code provides inherent support for a variety of platform commands. Common idioms include looping (for bulk records processing), locking syntax (to prevent record update conflicts), Salesforce Object Query Language (SQQL) and Salesforce Object Search Language (SOSL) queries (to return lists of records), and Data Manipulation Language (DML) with built-in exception handling (for actions including "insert," "update" and "delete").

As Apex is running in a multitenant environment along with the rest of the Force.com platform, runaway code is prevented through the runtime engine, which ensures shared resources are not monopolized. Additionally, Apex code is automatically upgraded with the rest of the Force.com platform any time an update occurs, without requiring a rewrite.

Concise and Comprehensive: Not only is Apex code characteristically succinct, it is designed to combine multiple query and DML statements into a single action on the Force.com server, similar to how database-stored procedures merge together multiple transaction statements on a database server, consolidating disparate information into a comprehensive unit of work for ease of use. Common applications include the creation of Web services, e-mail services, and complex processes not supported by current workflow. It can also be used to enhance logic flexibility or to develop custom logic assigned to be executed along with a specific operation, regardless of origin.

User Friendly: The Apex programming language is similar to Java and includes such familiar elements as variable and expression syntax, object and array notation, and loop syntax, facilitating developer use and reducing the need for advanced training. Any new elements introduced by Apex are based on user friendly syntax and semantics that are compliant with the Force.com platform for ease of use. Even errors are communicated clearly, as the code will fail quickly during compilation if any references are invalid.

To enhance usability, Apex also features built-in support for creating and executing test code, which can help developers see how much code is covered and which parts could use adjusting for greater efficiency. All test results are saved as metadata for constant access, even during Salesforce system upgrades, so developers are always aware of ways to make code stronger, creating more proficient on-demand applications mapped to business requirements.

ASK US ABOUT APEX CODE DEVELOPMENT BENEFITS

To learn more about the real business results our clients see from our Apex Code Development services, please contact any member of our consulting team at info@tokarasolutions.com or call +1 (877) 330-1203.

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