

Axiom Stack rapid development framework allows users to write dynamic Web applications with Zen-like simplicity.

Axiom Stack is designed to make easy things easy, and hard things possible. It is distinctly different from many Web platforms (Struts, Spring, .Net, LAMP) that require a large up front knowledge of languages and API's. It is designed to simplify Web development by taking advantage of server-side JavaScript and by providing consistent, easy to learn APIs.

What makes it unique?

Web Server

Jetty receives and forwards incoming http requests into the application server for execution.

Built-in Security

User permissions are controlled by an easily configurable property file for each function on a prototype.

Scripting Layer

- All application code is written in JavaScript (ECMAScript) and interpreted by the Rhino engine.
- Applications written for Axiom Stack are run server-side using the Mozilla Rhino ECMAScript engine. Use of language features up to ECMAScript 1.7 are supported: for example, E4X for XML manipulation and list comprehensions.
- All application defined prototypes are available on the scripting layer.
- Rhino enables the standard Java APIs, as well as any user defined Java APIs, to be invoked through LiveConnect, giving the application developer all the tools and flexibility of the Java programming language.

Database

Unlike other development frameworks, Axiom Stack features an embedded Lucene database through which objects are easily persisted. Axiom Stack can also connect to any 3rd party relational storage through Axiom Stack's ORM. Whichever you choose, it is virtually transparent to the application developer because of simple properties files configuration.

Benefits of Lucene

- Speed of search and retrieval over standard relational databases.
- Optimized for Web application-type reading and retrieval
- No install or setup pre-configuration needed

Search

Axiom Stack uses a single convenient API to search all stored objects no matter where you have them stored. In fact, the complexity of the underlying storages' search and retrieval is transparent to the API user. The embedded Lucene storage is very fast for search and retrieval. Axiom's search APIs provide the added benefit of faceted search.

Presentation Layer

The Presentation Tier is created using strict XML with an attribute language called TALE. The attribute language is incredibly powerful, sleek, and easy to learn. TALE was designed from the ground up with the ease of implementation in mind.

Axiom Stack features

- All scripting is done in server side ECMAScript (JavaScript)
- Axiom Stack provides a unified object model to all content data
- Built-in storage behaves like a transparent, hierarchical object database with no setup
- TALE templating language, a clean and concise XML based attribute system for building templates
- Javascript makes language impedance issues arising from AJAX disappear
- Axiom Stack is secure by default, no programming needed
- Includes everything that you need to build a Web application

axiom software inc.

Development Framework
Axiom Stack

Web-based Software
Axiom CMS
Axiom Social Networking System
Axiom Blog

Axiom Software Inc.
11480 Commerce Park Drive,
Third Floor,
Reston, VA 20191

info@axiomsoftwareinc.com
703.657.1313