



Course Description: Building Web Applications, Level 2 is an instructor-led training (ILT) or self-paced study course designed for users of the Alpha Five v9 (and version 8) software package who wish to learn how to take their web application development to the next level. This course goes beyond the fundamentals of database designing for the Web. Topics include advanced web security such as importing and exporting user information, importing data from the server, create user registration dialogs for adding new and editing existing users. Topics also include filtering data in components at design, with a link control, and using arguments as well as including web pages in other web pages (using “Includes”), handling values sent to a page, Xbasic on the web, creating a code library, modifying pages at runtime, working with freeform regions, building pages without components (hand-coded pages), using Alpha Five AJAX, creating AJAX enabled web pages, using JavaScript libraries, and building callback pages. And finally, the learning guide also covers linking to Google Maps, running a report over the web from a dialog component, and uploading files to a server.

Course Length: 2 Days

Prerequisites: Building Web Applications Level 1 or equivalent knowledge.

OUTLINE

Advanced Web Security

- Importing Users from Another Table
- Creating an Update Records Operation
- Working with User Registration Dialogs
- Creating a Dialog Component
- Setting Server Events
- Setting Page Permissions
- Importing Data from the Server
- Exporting User Information to a Table

Filtering Data in Components

- Filtering at Design Time
- Filtering with a Link Control
- Using Arguments
- Creating an Argument Definition
- Prompting for an Argument
- Defining a Prompt Page
- Testing the Argument Filter

Modifying Pages at Runtime

- Inserting Xbasic on a Page
- Xbasic Sections on a Page
- Tips for Using Xbasic Code on the Web
- Using “Includes”
- Including Xbasic Code Sections
- Including HTML and .A5W Pages
- Handling Values Sent to a Page

- Working with Request Variables
- Using Session Variables
- Other Xbasic Programming Tips for the Web

Modifying Components at Runtime

- Examining Component Xbasic on an .A5W Page
- Loading & Running the Component
- Setting Common Overrides
- Overriding the Style & Filter
- Overriding the Table Order
- Hiding Columns & Controls
- Populating a Component Dropdown at Runtime
- Modifying Component Output
- Modifying Output HTML

Working with Freeform Regions

- Layouts for Grid Components
- Layouts for Dialog Components
- Using Layout Columns
- Using Column Spans
- Using Special Controls
- Freeform Regions in Components
- HTML in a Freeform Layout
- Security for Freeform Layouts
- Activating Freeform Layout for a Field
- Using the Freeform Template Builder
- Testing the Speed of Freeform Regions



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Building Web Applications, Level 2

Going Beyond Freeforms & Components

- Creating a Complete Layout in Freeform
- Define the HTML for the Freeform Layout
- Working with CSS Style Classes
- Building Pages without Components
- Design Elements of Pages without Components
- Retrieving Data
- Table References
- Trapping Page Submits
- Validating Data
- Building a Data Edit Page for a Single Record
- Building the Page
- Testing for Xbasic Code Errors on the Page
- Building a Grid on a Page

Using Alpha Five AJAX

- AJAX Knowledge Base
- JavaScript Principles & Troubleshooting
- Object Properties & Events
- Coding for AJAX
- Values Passed to/Sent from a Callback Page
- Alpha Five JavaScript Library Functions
- Troubleshooting the Callback Page
- AJAX Examples
- Adding a Timer to a Page
- Creating a Basic AJAX Enabled Page
- Loading JavaScript Library Files
- Creating JavaScript Functions
- Building the Callback Page
- Creating the Xbasic on the Callback Page
- Writing Xbasic Code for Each Event
- Cascading Lookup with AJAX

How Do I?

- Opening a Map with a Link
- Google Maps Concepts
- Setting Up the Grid Component
- Setting Link Control Properties
- Using the Address Link Builder
- Using the Add Variables Genie
- Defining the Variables for Google Map Links
- Setting up the Starting Address
- Running a Report from a Dialog
- Creating the Event Code
- Uploading a File to the Server
- File Types Allowed
- Building a File Upload Page
- HTML Upload Elements
- Server-Side Code
- Testing the Upload Page

Appendix:

- AJAX Form Functions in AjaxForLibrary.js
- Basic JavaScript Functions in core.js