



Embarcadero® RAD Studio XE

VCL for the Web (IntraWeb)

All IDE packages loaded

embarcadero

Copyright© 2010 Embarcadero Technologies, Inc. All Rights Reserved.

Delphi XE IntraWeb XI Development

Delphi XE, IntraWeb XI (VCL for the Web)
2nd EDITION - February 2012



Bob Swart (aka Dr.Bob)
Bob Swart Training & Consultancy (eBob42)
<http://www.eBob42.com>



Table of Contents

| | |
|---|-----------|
| 1. VCL for the Web / IntraWeb XI | 1 |
| IntraWeb XI 11.x and Delphi XE | 1 |
| IDE Support..... | 1 |
| Discontinued Features..... | 1 |
| IntraWeb XI Features..... | 2 |
| Uninstall Previous Version..... | 3 |
| Installing IntraWeb XI | 5 |
| IntraWeb License Keys | 11 |
| Summary | 12 |
| | |
| 2. IntraWeb XI Applications | 13 |
| IWDemo Project Source | 16 |
| GUI Mode | 16 |
| Service Mode | 18 |
| Server Controller..... | 20 |
| TIWServerController Properties..... | 21 |
| AllowMultipleSessionsPerUser | 23 |
| AppName | 23 |
| AuthBeforeNewSession | 23 |
| Auther | 23 |
| BoundIP | 25 |
| CacheDir | 25 |
| CacheExpiry..... | 25 |
| CharSet | 25 |
| ComInitialization | 25 |
| Compression | 26 |
| ContentFiles..... | 27 |
| DebugHTML | 27 |
| Description | 27 |
| DisplayName | 27 |
| EnableImageToolbar | 27 |
| ExceptionDisplayMode | 27 |
| FilesDir | 28 |
| HistoryEnabled | 28 |
| HTMLHeaders | 28 |
| InternalFilesDir | 28 |
| InternalFilesURL | 28 |
| JavascriptDebug | 28 |
| Log | 28 |
| MasterTemplate | 28 |
| PageTransitions | 28 |
| Port | 29 |
| RedirectMsgDelay | 29 |
| ServerResizeTimeout | 29 |
| SessionTimeout | 29 |
| ShowLoadingAnimation | 29 |
| SSLOptions | 29 |
| StyleSheet..... | 30 |
| TemplateDir | 30 |
| TimeoutResponse | 30 |
| TIWServerController Events | 30 |

| | |
|---|-----------|
| OnAfterDispatch | 31 |
| OnAfterRender | 31 |
| OnBackButton | 31 |
| OnBeforeDispatch | 31 |
| OnBeforeRender | 32 |
| OnCloseSession | 32 |
| OnException | 32 |
| OnGetSessionID | 32 |
| OnNewSession | 33 |
| IntraWeb TIWApplication Properties | 33 |
| ActiveForm | 33 |
| ActiveFormCount | 33 |
| AppID | 33 |
| ApplicationURL | 33 |
| Browser | 33 |
| Data | 33 |
| FormAction | 33 |
| FormCount | 33 |
| Forms | 34 |
| IP | 34 |
| IsCallback | 34 |
| LastAccess | 34 |
| RedirectURL | 34 |
| ReferringURL | 34 |
| Request | 34 |
| Response | 34 |
| RunParams | 34 |
| SecureMode | 34 |
| SessionTimeout | 34 |
| Terminated | 34 |
| TerminateMessage | 35 |
| TerminateURL | 35 |
| TrackID | 35 |
| UserCacheDir | 35 |
| TIWApplication Methods | 35 |
| GoToURL | 35 |
| MarkAccess | 35 |
| SendFile | 35 |
| SendStream | 36 |
| ShowMessage | 36 |
| Terminate | 36 |
| TerminateAndRedirect | 36 |
| TIWAppForm | 37 |
| IntraWeb TIWPageForm | 37 |
| ActiveControl | 38 |
| Background | 38 |
| ExtraHeader | 38 |
| HandleTabs | 38 |
| HiddenFields | 38 |
| JavaScript | 38 |
| LayoutMgr | 38 |
| LinkColor | 38 |
| ShowHint | 38 |
| StyleSheet | 38 |
| SupportedBrowsers | 38 |
| TextColor | 38 |
| Title | 38 |

| | |
|---|-----------|
| VLinkColor | 39 |
| TIWPageForm Events | 39 |
| OnAfterRender | 39 |
| OnCreate | 39 |
| OnDefaultAction | 39 |
| OnDestroy | 39 |
| OnRender | 39 |
| Designing IntraWeb Page Form | 40 |
| IW Standard Controls | 41 |
| TIWApplet | 42 |
| TIWButton | 42 |
| TIWCheckBox | 44 |
| TIWComboBox | 44 |
| TIWEdit | 45 |
| TIWFile | 46 |
| TIWFlash | 47 |
| TIWHRule | 48 |
| TIWImage | 48 |
| TIWImageFile | 48 |
| TIWImageButton | 48 |
| TIWList | 48 |
| TIWLabel | 48 |
| TIWListbox | 49 |
| TIWLink | 49 |
| TIWMemo | 50 |
| TIWMenu | 50 |
| TIWProgressBar | 51 |
| TIWRadioButton | 51 |
| TIWRectangle | 51 |
| TIWRegion | 51 |
| TIWText | 51 |
| TIWTimer | 52 |
| TIWGrid | 52 |
| TIWTreeview | 53 |
| TIWTreeViewItem | 54 |
| TIWURL | 55 |
| TIWURLWindow | 55 |
| TIWMPeg | 55 |
| TIWQuickTime | 55 |
| TIWCalendar | 55 |
| Multiple IntraWeb Application Forms | 56 |
| Final Release | 59 |
| Passing Information Around | 59 |
| Getting Back | 59 |
| State Management | 61 |
| UserSession | 61 |
| Extending User Session | 62 |
| Using User Session | 62 |
| Summary | 63 |
| 3. IntraWeb and Databases | 65 |
| Data Module | 66 |
| TSQLConnection | 67 |
| TSQLDataSet | 69 |
| IW Data Controls | 71 |
| TIWDBCheckBox | 72 |

| | |
|--|------------|
| TIWDBComboBox | 72 |
| TIWDBEdit..... | 72 |
| TIWDBGrid | 72 |
| TIWDBImage | 73 |
| TIWDBLabel..... | 73 |
| TIWDBListbox | 73 |
| TIWDBLookupListbox | 73 |
| TIWDBLookupCombobox | 73 |
| TIWDBFile | 73 |
| TIWDBMemo..... | 73 |
| TIWDBNavigator..... | 73 |
| TIWDBText | 74 |
| TIWDBRadioGroup | 74 |
| Continued Demo | 74 |
| TIWDBGrid Usage | 79 |
| Sharing VCL data modules with VCL for the Web..... | 86 |
| Pool Data Connections | 88 |
| DatamoduleUnit | 89 |
| ServerController | 90 |
| Using Data Pooling..... | 92 |
| Custom Data Pooling..... | 94 |
| IntraWeb and DataSnap | 95 |
| DataSnap Server | 95 |
| DataSnap Client | 98 |
| Summary | 100 |
| 4. IntraWeb and AJAX | 101 |
| AJAX = Asynchronous | 101 |
| OnAsync | 102 |
| OnAsync Events | 103 |
| EventParams | 105 |
| Working with EventParams | 107 |
| OnAsync and Visible..... | 108 |
| OnAsync and Disable | 108 |
| Summary | 110 |
| 5. IntraWeb and iPhone / iPad..... | 111 |
| TMS IntraWeb iPhone Controls Pack..... | 111 |
| TTIiPhoneButton | 113 |
| TTIiPhoneEmailLabel | 113 |
| TTIiPhoneFooter | 113 |
| TTIiPhoneGeolocation | 114 |
| TTIiPhoneHeader | 114 |
| TTIiPhoneList | 114 |
| TTIiPhoneLocationLabel | 114 |
| TTIiPhoneMenu..... | 114 |
| TTIiPhoneOnOffButton | 114 |
| TTIiPhonePageFlip..... | 115 |
| TTIiPhonePhoneLabel | 115 |
| TTIiPhoneRegion..... | 115 |
| TTIiPhoneScrollRegion | 115 |
| TTIiPhoneSMSLabel..... | 115 |
| TTIiPhoneStyle | 115 |
| TTIiPhoneTrackbar | 115 |
| TMS iPhone Controls Demo | 116 |
| Registered Users | 125 |
| Summary | 126 |

| | |
|--|------------|
| 6. IntraWeb Custom Components..... | 127 |
| IntraWeb Controls | 127 |
| Custom Components | 129 |
| Packages..... | 130 |
| TIEuroComboBox..... | 133 |
| TIWRequiredEdit | 134 |
| Installation and Usage..... | 136 |
| Summary | 137 |
| 7. IntraWeb Testing Framework..... | 139 |
| Sample Application | 139 |
| Manual Test..... | 140 |
| VCL for the Web Test Project..... | 141 |
| Sharing Main Form | 142 |
| Writing Test Code | 142 |
| More Tests | 151 |
| ITestSuite | 152 |
| Summary | 153 |
| 8. IntraWeb Deployment | 155 |
| Project Targets | 155 |
| StandAlone Application..... | 155 |
| Service Application | 156 |
| ISAPI Extension | 156 |
| Multiple Project Targets..... | 156 |
| Windows Server 2003 | 157 |
| Enabling ISAPI / CGI..... | 157 |
| Virtual Directory | 158 |
| Deployment on Windows Server 2008 and IIS7 | 161 |
| IntraWeb Deployment | 166 |
| Files, Templates and Cache..... | 166 |
| Database Drivers..... | 166 |
| DBX4 Drivers | 166 |
| DBX Trace / Pool Connections | 167 |
| Core Lab DBX4 Drivers | 167 |
| Summary | 168 |

The information in this courseware manual is © 2001-2012 by drs. Robert E. (Bob) Swart of Bob Swart Training & Consultancy. All Rights Reserved.

The information in this courseware manual is presented to the best of my knowledge at the time of writing. However, in case of errors or omissions, I welcome your feedback or comments (by e-mail) as Bob Swart Training & Consultancy cannot be held responsible for any damage that results from using the information in this manual or the example source code snippets. Thanks in advance for your understanding.