



ABN: 46 070 992 433

ChilliDB® Web Controls Developers Guide



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1 Introduction

Polymorphic Solutions provides ChilliDB clients a collection of web controls which may be integrated into the clients' own website with minimal programming skills and a basic understanding of HTML.

All of the complexities are taken care of by the ChilliDB Web Controls.

This document is intended to provide developers the information required and sample code to integrate the ChilliDB web controls into an existing website. A second document called "ChilliDB® Web Controls Users Guide" outlines the actual business functions performed by the ChilliDB Web Controls.

While integrating the ChilliDB Web Controls, you are able to fully control the look and feel of the ChilliDB Web Controls by providing your own style sheet or, if you would prefer to get up and running quickly, you may choose to use the default look and feel of our web controls.

You will be provided with a ChilliDB Web Controls "Integrators Kit" which contains some files which will allow you to link your website with the ChilliDB Web Controls. Amongst these files you will also find some sample code which will help you get up and running quickly.

1.1 Skills Required

This document assumes that the person following has some familiarity at minimum with maintaining the following technologies:

- HTML
 - For copying files and also sample code from our ChilliDB integrators kit and adding it into your website
- Style Sheets
 - Only necessary if you would rather customise the appearance of the ChilliDB Web Controls with a style sheet of your own. You can use our supplied sample and modify it as required.

Our documentation and sample files try to cater for all skill levels where possible.

1.2 Need Assistance?

If you are not comfortable performing these activities, Polymorphic Solutions can perform this work on your behalf.

To organise for Polymorphic Solutions to perform your website integration, please email helpdesk@chillidb.com and request this service.

2 Solution Overview

The following diagram outlines where the ChilliDB Web Controls would operate acting as a conduit between your website and your ChilliDB information system.

The ChilliDB Web Controls and in most situations, the ChilliDB Web Application and Database will reside on Polymorphic Solutions hosted platform. Your website will most likely reside on your own servers or perhaps on your hosting providers' servers.

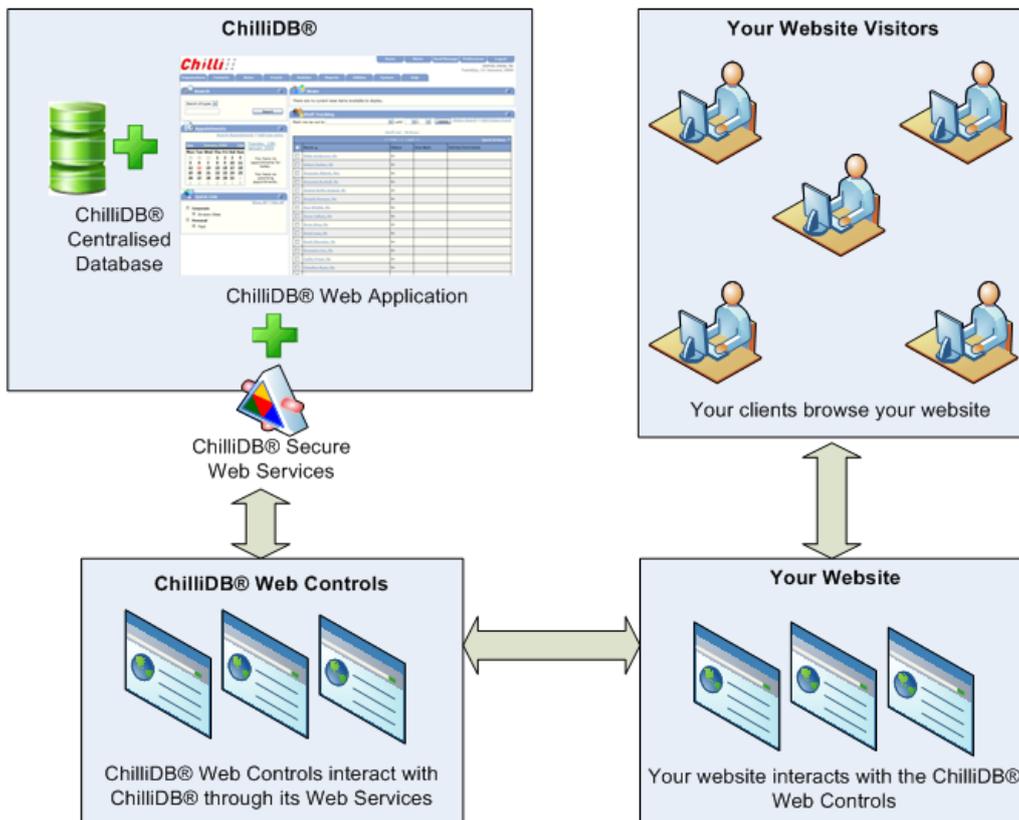


Figure 1: Solution Overview

2.1 Security

The sample code supplied in your ChilliDB integrators kit contains a special token and a URL for the ChilliDB Web Controls within files named for each control; "Subscriptions.js", "Membership.js", and "Events.js". The token is specifically generated for your organisation and is used to identify your website in all communications with the ChilliDB web controls.

A second file called "me.js" contains some encoded JavaScript which sets the URL for the iframe which you will be placing into a web page on your website.

These measures have been taken to discourage misuse of the ChilliDB Web Controls and the only activities someone can do with this information is precisely what they can already do using the web page you will create and host on your website, such as subscribe to a ChilliDB Distribution List. The naming convention used for the files and their contents is intentional and serves only to obscure the work being performed as an additional security measure.

The ChilliDB Web Controls at the server end utilise the special token which you provide to lookup your ChilliDB system in our register, validate your token to ensure it has not been tampered with, and then allow controlled and secured access to your ChilliDB system through secured web services.

3 Web Controls

3.1 Overview

This collection of web controls provides the functionality to allow visitors to your website to interact in various ways with information stored within your company's ChilliDB application. These interactions include registering onto one or more ChilliDB Distribution Lists, viewing up-to-date information about Events, or signing up to a Membership Package.

The following figure shows the ChilliDB "Subscription" Web Control as an example. This particular control allows a visitor to sign themselves onto one of your ChilliDB Distribution Lists. Like all the web controls it is comprised of many individual elements which you will have full control over through the use of a style sheet. You may change the appearance of each element or leave them as they are and use the default look and feel which will automatically be applied to the web controls.

Subscriptions

Please enter your name and email address.

By entering your email address into the box below you are agreeing to have your email address added to the e-letter subscription list.

You may opt out of any of these services at any time.

We will not use your email address for any other purpose

Given Name

Surname

Email Address

Your subscriptions

Practices in Division Boundaries

ChilliDB Newsletter

Polymorphic Newsletter

Figure 2: Subscription Management

3.2 Adding ChilliDB Web Control Capabilities to Your Website

In order to show a ChilliDB Web Control on your website, you will create a new page or modify an existing page to add some code which will create an `iframe`. This is the container which will display the Web Control. You also have the opportunity to provide a customised style sheet to control the appearance of the ChilliDB Web Control.

Within your ChilliDB Web Controls "Integrators Kit" you will see the following items:

- Subscriptions.js, Events.js, Memberships.js

One of these files must be chosen and configures a particular one of the three available Web Controls. These files may be modified to include a reference to a customised style sheet if you do not wish to use the default one. More on how you do this can be found in section 3.3 "Customising the Appearance of the Web Controls".

- `Me.js`

This file should be considered a system file and should not be changed in any way.

- `Sample Code.htm`

This is a code sample which includes an `iframe`, some style information to control the `iframe` appearance, and references to the JavaScript files above which are necessary for the integration between your website and the ChilliDB web controls. You can use this file and rename it as you like, or copy code from this file and merge it into your own file.

- `StyleSheet.css`

This is the second code sample which is a style sheet which may be used to control the page elements on the ChilliDB web controls. You may edit this file and change the attributes for each style sheet class. You should however not rename any of the style classes. Each class can be identified from Figure 4 found in section 3.3 “Customising the Appearance of the Web Controls”

To use these files, you should create a folder within your website and place all of the files listed above into that folder. You may either rename the file “`Sample Code.htm`” or copy the content from the file and add it to an existing file on your website. Note that you can include all the “.js” files from all the controls in the same folder, however you cannot include multiple controls on the same page.

Looking more closely at the sample code from “`Sample Code.htm`”, if you compare its content with Figure 3 below, you can identify the following highlighted elements:

1. Script references to two of the JavaScript files which came in your kit. The first reference, in this example, is to the “`Events.js`” file. If you wished to include either “`Subscriptions.js`” or “`Memberships.js`” you would replace this value. The second reference is to the “`Me.js`” system file.

If you are merging the code into an existing file, you should ensure that the “`src`” attribute for the JavaScript references are correct. Looking at Figure 3 below, it can be deduced that the JavaScript files are in the same folder as the page holding the `iframe` which will eventually present the ChilliDB Web Control.

2. The `iframe` itself. The identifier for the `iframe` cannot be changed, however the attributes which control its size may be changed to suit the available screen real estate for your website.

If you are merging the code into an existing file, the `iframe` can be placed anywhere you like within the `<body></body>` section of your web page.

```

<!DOCTYPE html>
<html>
<head>
  <title></title>
  <script type="text/javascript" src="Events.js"></script>
  <script type="text/javascript" src="me.js"></script>
</head>
<body>
  <iframe id="frameSM" src="" frameborder="0" scrolling="no" width="650px" height="550px"></iframe>
</body>
</html>

```

Figure 3: Sample Code for your website showing the "Events" Web Control integration.

3.3 Customising the Appearance of the Web Controls

The following table summarises the elements which appear on the Web Controls and identifies the purpose of each element.

Element	Purpose
A Page Heading	The title of your page to portray the purpose of the page
A Section Heading	To direct the user what they should be doing
Page Text	To explain anything to the user about the purpose of the page
Page Alerts for: <ul style="list-style-type: none"> • Error • Warning • Success • Information 	For providing feedback to the user about data entry errors, successful completion of the form. These alerts only show when necessary, in response to visitor activities.
Field Labels	Labels for the data capture fields
Text Boxes, Drop Down Lists, Check Boxes	Data entry components
Field Container	A container which holds all of the data entry fields, their labels and the form button
Page Container	A container which holds all of the web controls content
Button	To have the web control perform its processing activities

Each element's appearance can be controlled through style sheets which allows you to specify the font colour, font face, font size, positioning and visibility, along with anything else which you are able to achieve through style sheets.

The following diagram identifies each of the elements using the “Subscriptions” Web Control as an example:

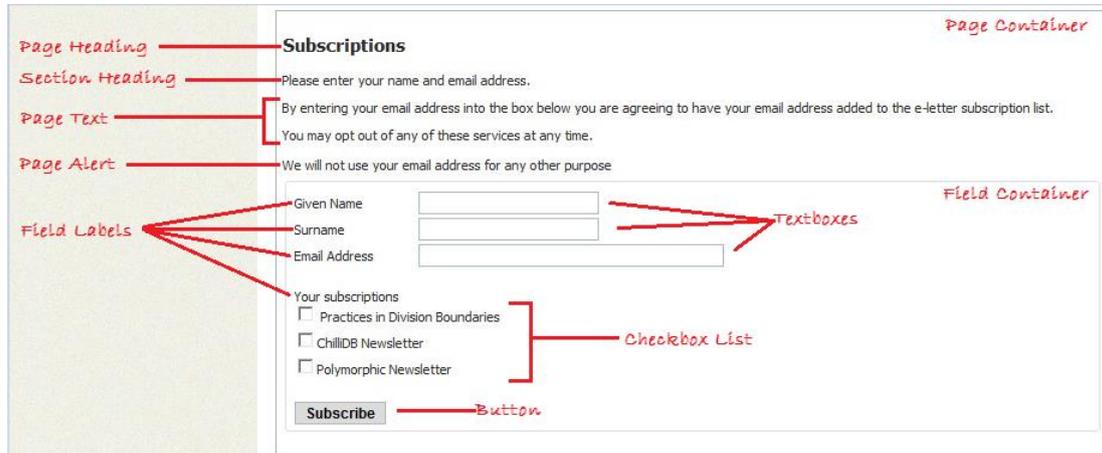


Figure 4: Page Elements

If you would like to customise the look and feel of the ChilliDB Web Controls, you can provide your own style sheet to match your website appearance.

A sample style sheet called “StyleSheet.css” has been included in ChilliDB Web Controls Integrators Kit you received which identifies each page element to enable you to get up and running quickly. You may rename this style sheet if you like, just be sure that you reference the correct name in the control-specific “.js” file you are using.

To supply your own style sheet, you should locate the file control-specific “.js” file which you copied into your website in the Adding ChilliDB Web Control Capabilities to Your Website section of this document and edit that file.

```
var Guid = '218EE51D-6DED-4862-A67B-F3232CE865C2'; //required, do not change
var Chilli = 'http://ais.chillidb.com/ChilliDBWebControls/Subscribe'; //required, do not change
var StyleSheet = ''; //optional, you may change
```

Figure 5: Control-specific JavaScript which allows you to define a custom style sheet

You will notice initially that the “StyleSheet” variable is empty by default which means that the default style sheet will be added to the Web Controls when loaded from our server. To use your own style sheet, change the “StyleSheet” variable to an absolute URL reference to a style sheet hosted on your website and the ChilliDB Web Controls will then utilise that style sheet to modify the appearance of the elements shown in Figure 4 above.

3.4 Conclusion

You should now have enabled ChilliDB Web Controls on your website.

You should load the page in your web browser and you should see a page similar to the one shown in Figure 3 above. If you do not see all the information, for example missing checkboxes under the “Your Subscriptions” heading on the “Subscriptions” Web Control, then you should repeat the steps above

to ensure you didn't miss anything. If you are still experiencing issues after repeating those steps, you should contact Polymorphic Solutions through helpdesk@chillidb.com for support.

If you do see all the expected information then you should fill out the form and ensure that it submits through to your ChilliDB system successfully, or have your key ChilliDB user perform the test to ensure that the data is being created correctly without error before releasing this functionality to your website visitors.