CPH API Endpoints & Objects

Author: Josh Trimm

Edited by Phil Pfeiffer

Last Updated 29 August 2021

Contents

[1 API Descriptions 1](#_Toc81093639)

[1.1 Home 1](#_Toc81093640)

[1.2 Index (Home Page) 1](#_Toc81093641)

[1.3 About 1](#_Toc81093642)

[1.4 Contact 1](#_Toc81093644)

[1.5 Submit Contact Form 2](#_Toc81093646)

[1.6 Browse Charts 2](#_Toc81093648)

[1.7 View Single Chart 2](#_Toc81093650)

[1.8 Dashboard (Home) 2](#_Toc81093652)

[1.9 Create Region 2](#_Toc81093654)

[2 Object Descriptions 2](#_Toc81093656)

[2.1 Models 2](#_Toc81093657)

[2.1.1 Chart 2](#_Toc81093658)

[2.2 View Models 3](#_Toc81093659)

[2.2.1 ContactFormVM 3](#_Toc81093660)

# API Descriptions

## Home

Path: **/home** or **/**

The home path is controlled by the Home controller and is only used to display information for the typical *browser* (please see CPH Overview for user definitions).

### Index (Home Page)

Path: **/home**, **/home/index**, or **/**

The website’s main landing page.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **HTTP Request Method** | **CRUD Function** | **Parameter** | **Parameter Type** | **Return** | **Return Type** |
| GET | Read |  |  | View | IActionResult |

### About

Path: **/home/about** or **/about**

Displays information about the CPH.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **HTTP Request Method** | **CRUD Function** | **Parameter** | **Parameter Type** | **Return** | **Return Type** |
| GET | Read |  |  | View | IActionResult |

### Contact

Path: **/home/contac**t or **/contact**

Displays basic contact information and a form for the user (*browser)* to submit.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **HTTP Request Method** | **CRUD Function** | **Parameter** | **Parameter Type** | **Return** | **Return Type** |
| GET | Read |  |  | View | IActionResult |

### Submit Contact Form

Path: **/home/submitcontact** or **/submitcontact**

Sends an email message to a CPH employee and redirects the user to a thank you page.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **HTTP Request Method** | **CRUD Function** | **Parameter** | **Parameter Type** | **Return** | **Return Type** |
| POST | None | Form | ContactFormVM | RedirectToAction – ThankYouForContractingUs | IActionResult |

### Browse Charts

Path: **/home/browsecharts**

Returns a list of all the database’s charts.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **HTTP Request Method** | **CRUD Function** | **Parameter** | **Parameter Type** | **Return** | **Return Type** |
| GET | Read |  |  | List<Chart> | List<Chart> |

### View Single Chart

Path: **/home/viewchart**

Retrieves the specified chart.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **HTTP Request Method** | **CRUD Function** | **Parameter** | **Parameter Type** | **Return** | **Return Type** |
| GET | Read | chartId | string | Chart | Chart |

## Dashboard (Home)

Path: **/Dashboard** or **/Dashboard/index**

Displays the user’s name and navigation links to the rest of the dashboard.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **HTTP Request Method** | **CRUD Function** | **Parameter** | **Parameter Type** | **Return** | **Return Type** |
| GET |  |  |  | View | IActionResult |

### Create Chart

Path: /Dashboard/createchart

Displays a page for the user to create a custom chart.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **HTTP Request Method** | **CRUD Function** | **Parameter** | **Parameter Type** | **Return** | **Return Type** |
| GET |  |  |  | View | IActionResult |

### Submit New Chart

Path: /Dashboard/submitnewchart

This endpoint is called to submit a new chart.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **HTTP Request Method** | **CRUD Function** | **Parameter** | **Parameter Type** | **Return** | **Return Type** |
| POST | Create | Chart | Chart | RedirectToAction | IActionResult - chart |

### Submit New Region

Path: /Dashboard/submitnewregion

This endpoint is called to submit a new region.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **HTTP Request Method** | **CRUD Function** | **Parameter** | **Parameter Type** | **Return** | **Return Type** |
| POST | Create | Chart | Chart | RedirectToAction | IActionResult - chart |

### CSV Year Duplicate Check

Path: /Dashboard/CSVYearDuplicateCheck

Checks the CSV year with the current files in the directory. If the directory has the year being uploaded this method will return ***true.***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **HTTP Request Method** | **CRUD Function** | **Parameter** | **Parameter Type** | **Return** | **Return Type** |
| GET | N/A | csvYear | IFormFile | View(bool) | IActionResult |

### Upload CSV

Path: /Dashboard/UploadCSV

Returns a view of the CSV uploading module.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **HTTP Request Method** | **CRUD Function** | **Parameter** | **Parameter Type** | **Return** | **Return Type** |
| GET | N/A | None | None | View | IActionResult |

### Upload CSV Async

Path: /Dashboard/UploadCSV

Takes the file selected by the user and saves the original copy and an altered copy in the wwwroot directory.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **HTTP Request Method** | **CRUD Function** | **Parameter** | **Parameter Type** | **Return** | **Return Type** |
| POST | N/A | Form | UploadCSVModel | View | IActionResult |

### Create Region

Path: **/Dashboard/createregion**

Displays a page for the user to create a custom region defined of related counties.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **HTTP Request Method** | **CRUD Function** | **Parameter** | **Parameter Type** | **Return** | **Return Type** |
| GET | Read |  |  | View | IActionResult |

# Object Descriptions

## Models

### RegionCounties

The relationship between regions and counties must be defined in the DB Context file and in the models themselves. RegionCounties will have a Region object property and a County object property. This is how asp.net creates the mapping for the associative table.

* RegionId: Guid (as a string)
* CountFIPS: int
* *Region: Region*
* *County: County*

### County

The table of counties will be populated each time a new CSV is uploaded to the site. This will be a comprehensive list of all the counties over all the years that are uploaded. If

* Name: string
* State: string (abbreviation only, Ex: TN for Tennessee)
* FIPSCode: PK - int (this includes the state digits as well)

### Region

* Id: Guid (as a string)
* ChartName: string
* CreatorId: Guid (as a string)
* DateCreated: DateTime
* DateUpdateed: DateTime
* Counties: List<County>
* UserId: Guid (as a string)

### Chart

* Id: Guid (as a string)
* ChartName: string
* CreatorId: Guid (as a string)
* DateCreated: DateTime
* DateUpdated: DateTime
* MakePublic: bool
* HealthAttribute: string (name of the attribute)
* Year: int
* RegionId: Guid (as a string) – nullable
* CountyId: FIPS ID (as a string) - nullable

## View Models

### ContactFormVM

* Name: string
* Email: string
* Message: string