PokeWeb

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Chapter 1

Namespace Index

1.1 Namespace List

Here is a list of all documented namespaces with brief descriptions:

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PokeWeb.DAL 7
PokeWeb.Migrations 7
PokeWeb.Models 7

Chapter 2

Hierarchical Index

2.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

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PokeWeb.Models.Statistic 18
PokeWeb.Models.StatisticContainer 20
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Chapter 3

Class Index

3.1 Class List

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PokeWeb.Models.Pokemon 11
PokeWeb.Controllers.pokemonController 14
PokeWeb.DAL.PokeWebContext 17
PokeWeb.Models.Statistic 18
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PokeWeb.SwaggerConfig 20
PokeWeb.WebApiApplication 21

Chapter 4

Namespace Documentation

4.1 PokeWeb Namespace Reference

Namespaces

Classes

- class SwaggerConfig
- class WebApiApplication
- class **WebApiConfig**

4.2 PokeWeb.Controllers Namespace Reference

Classes

- class pokemonController

4.3 PokeWeb.DAL Namespace Reference

Classes

- class PokeWebContext

4.4 PokeWeb.Migrations Namespace Reference

Classes

- class **Configuration**
- class CreateDatabase

4.5 PokeWeb.Models Namespace Reference

Classes

- class Ability
- class Move
- class Pokemon
- class Statistic
- class StatisticContainer

Chapter 5

Class Documentation

5.1 PokeWeb.Models.Ability Class Reference

Properties

- long id `[get, set]`
- string name `[get, set]`

5.1.1 Detailed Description

Ability class represents the Pokemon ability object. This object is grouped in list form and related to a Pokemon

5.1.2 Property Documentation

5.1.2.1 id

```
long PokeWeb.Models.Ability.id [get], [set]
```

An identification element.

5.1.2.2 name

```
string PokeWeb.Models.Ability.name [get], [set]
```

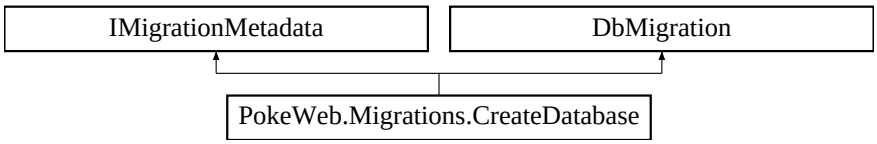
A name of ability.

The documentation for this class was generated from the following file:

- Models/Ability.cs

5.2 PokeWeb.Migrations.CreateDatabase Class Reference

Inheritance diagram for PokeWeb.Migrations.CreateDatabase:



Public Member Functions

- override void Up ()
- override void Down ()

5.2.1 Detailed Description

Class to create/update database. This class was created for the "add-migrations" command in the Package Manager Console after deployment and generated the database flow to create and/or update the database structure. At each project update this command must be executed and a new "DbMigration" is created.

5.2.2 Member Function Documentation

5.2.2.1 Down()

```
override void PokeWeb.Migrations.CreateDatabase.Down ( )  [inline]
```

Routine to delete tables. This routine is responsible for delete the tables in the database, mirroring the most recent structure of the objects in the project.

5.2.2.2 Up()

```
override void PokeWeb.Migrations.CreateDatabase.Up ( )  [inline]
```

Routine to create tables. This routine is responsible for creating or updating the tables in the database, mirroring the most recent structure of the objects in the project.

The documentation for this class was generated from the following files:

- Migrations/201801261158053_CreateDatabase.cs
- Migrations/201801261158053_CreateDatabase.Designer.cs

5.3 PokeWeb.Models.Move Class Reference

Properties

- long id [get, set]
- string name [get, set]

5.3.1 Detailed Description

Move class represents the Pokemon move object. This object is grouped in list form and related to a Pokemon

5.3.2 Property Documentation

5.3.2.1 id

```
long PokeWeb.Models.Move.id [get], [set]
```

An identification element.

5.3.2.2 name

```
string PokeWeb.Models.Move.name [get], [set]
```

A name of ability.

The documentation for this class was generated from the following file:

- Models/Move.cs

5.4 PokeWeb.Models.Pokemon Class Reference

Properties

- long id [get, set]
- string name [get, set]
- string image [get, set]
- int speed [get, set]
- int defense [get, set]
- int attack [get, set]
- int special_defense [get, set]
- int special_attack [get, set]
- int hp [get, set]
- int base_experience [get, set]
- int height [get, set]
- int weigh [get, set]
- virtual ICollection< Move > moves [get, set]
- virtual ICollection< Ability > abilities [get, set]

5.4.1 Detailed Description

Pokemon class represents the Pokemon in all project. This object contain all information about the Pokemon

5.4.2 Property Documentation

5.4.2.1 abilities

```
virtual ICollection<Ability> PokeWeb.Models.Pokemon.abilities  [get], [set]
```

A list of abilities of the Pokemon.

5.4.2.2 attack

```
int PokeWeb.Models.Pokemon.attack  [get], [set]
```

A attack attribute of the Pokemon.

5.4.2.3 base_experience

```
int PokeWeb.Models.Pokemon.base_experience  [get], [set]
```

A experience points attribute of the Pokemon.

5.4.2.4 defense

```
int PokeWeb.Models.Pokemon.defense  [get], [set]
```

A defence attribute of the Pokemon.

5.4.2.5 height

```
int PokeWeb.Models.Pokemon.height  [get], [set]
```

A height attribute of the Pokemon.

5.4.2.6 hp

```
int PokeWeb.Models.Pokemon.hp  [get], [set]
```

A health points attribute of the Pokemon.

5.4.2.7 id

```
long PokeWeb.Models.Pokemon.id  [get], [set]
```

An identification element.

5.4.2.8 image

```
string PokeWeb.Models.Pokemon.image  [get], [set]
```

A path to Pokemon image.

5.4.2.9 moves

```
virtual ICollection<Move> PokeWeb.Models.Pokemon.moves  [get], [set]
```

A list of moves of the Pokemon.

5.4.2.10 name

```
string PokeWeb.Models.Pokemon.name  [get], [set]
```

A name of Pokemon.

5.4.2.11 special_attack

```
int PokeWeb.Models.Pokemon.special_attack  [get], [set]
```

A special attack attribute of the Pokemon.

5.4.2.12 special_defense

```
int PokeWeb.Models.Pokemon.special_defense  [get], [set]
```

A special defence attribute of the Pokemon.

5.4.2.13 speed

```
int PokeWeb.Models.Pokemon.speed  [get], [set]
```

A speed attribute of the Pokemon.

5.4.2.14 weigh

```
int PokeWeb.Models.Pokemon.weigh  [get], [set]
```

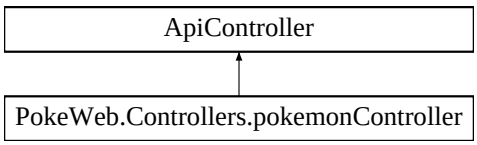
A weigh attribute of the Pokemon.

The documentation for this class was generated from the following file:

- Models/Pokemon.cs

5.5 PokeWeb.Controllers.pokemonController Class Reference

Inheritance diagram for PokeWeb.Controllers.pokemonController:



Public Member Functions

- IHttpActionResult GetAllPokemons (int page_size, int page)
- IHttpActionResult GetFirst6PokemonsOrderByAtackDesc ()
- IHttpActionResult GetPokemon (int id)
- IHttpActionResult PostPokemon (Pokemon pokemon)
- IHttpActionResult PutPokemon (Pokemon pokemon)
- IHttpActionResult PatchPokemon (Pokemon pokemon)
- IHttpActionResult DeletePokemon (int id)

5.5.1 Detailed Description

Primary controller of the API application. This controller is responsible for receiving all requests in the application and handling each of the calls according to the route and parameters received.

5.5.2 Member Function Documentation

5.5.2.1 DeletePokemon()

```
IHttpActionResult PokeWeb.Controllers.pokemonController.DeletePokemon (
            int id )  [inline]
```

Routine to delete a Pokemon. This routine is responsible for remove data about the Pokemon into the application with identification

Parameters

Pokemon	Identification of Pokemon in database

Returns

Data of Pokemon removed

Author

Rafael M. S. Siqueira

5.5.2.2 GetAllPokemons()

```
IHttpActionResult PokeWeb.Controllers.pokemonController.GetAllPokemons (
            int page_size,
            int page )  [inline]
```

Routine for Pokemon listings. This routine operates by paging system, facilitating the client-side iplementation. To be executed, this routine waits for two parameters, the page size (number of elements returned) and the page number.

Parameters

page_size	Number of elements
page	Number of page

Returns

List of Pokemons

Author

Rafael M. S. Siqueira

5.5.2.3 GetFirst6PokemonsOrderByAtackDesc()

```
IHttpActionResult PokeWeb.Controllers.pokemonController.GetFirst6PokemonsOrderByAtackDesc ( )
[inline]
```

Routine for the list of 6 best Pokemons ordered by attack points. This routine lists the 6 best pokémons ordered by the attack parameter and calculates the statistical data for this group to help the client about this information.

Returns

Container with the list of 6 top Pokemons ans statistic data

Author

Rafael M. S. Siqueira

5.5.2.4 GetPokemon()

```
IHttpActionResult PokeWeb.Controllers.pokemonController.GetPokemon (
            int id )  [inline]
```

Routine for Pokemon details. This Pokemon gets the identification number of a Pokemon and returns all the data in the application related to that Pokemon

Parameters

id	Identification of Pokemon in database

Returns

Data of Pokemon

Author

Rafael M. S. Siqueira

5.5.2.5 PatchPokemon()

```
IHttpActionResult PokeWeb.Controllers.pokemonController.PatchPokemon (
            Pokemon pokemon )  [inline]
```

Routine to send a Pokemon. This routine is responsible for update a part of infromation about the Pokemon into the application in database

Parameters

Pokemon	Part of infoirmation about the Pokemon

Returns

Data of Pokemon with identification

Author

Rafael M. S. Siqueira

5.5.2.6 PostPokemon()

```
IHttpActionResult PokeWeb.Controllers.pokemonController.PostPokemon (
            Pokemon pokemon )  [inline]
```

Routine to send a Pokemon. This routine is responsible for inserting a Pokemon into the application or updating all the data if it is already registered in the database of the application

Parameters

Pokemon	All infoirmation about the Pokemon

Returns

Data of Pokemon with identification

Author

Rafael M. S. Siqueira

5.5.2.7 PutPokemon()

```
IHttpActionResult PokeWeb.Controllers.pokemonController.PutPokemon (
            Pokemon pokemon )  [inline]
```

Routine to send a Pokemon. This routine is responsible for inserting a Pokemon into the application all the data if it is already registered in the database of the application

Parameters

Pokemon	All infoirmation about the Pokemon

Returns

Data of Pokemon with identification

Author

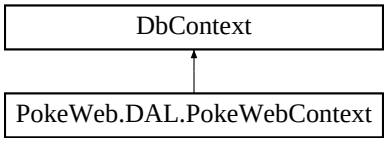
Rafael M. S. Siqueira

The documentation for this class was generated from the following file:

- Controllers/pokemonController.cs

5.6 PokeWeb.DAL.PokeWebContext Class Reference

Inheritance diagram for PokeWeb.DAL.PokeWebContext:



Public Member Functions

- PokeWebContext ()

Properties

- DbSet< Models.Pokemon > Pokemons [get, set]

5.6.1 Detailed Description

Class of context database. This class is user for EntityFramework an extend "DbContext" to manage the access of database with MySQL Server 2014.

5.6.2 Constructor & Destructor Documentation

5.6.2.1 PokeWebContext()

```
PokeWeb.DAL.PokeWebContext.PokeWebContext ( ) [inline]
```

Constructor of database context. This contriuctor mapping access data informatio this TAG "PokeWebContext" in "Web.config" file.

5.6.3 Property Documentation

5.6.3.1 Pokemons

```
DbSet<Models.Pokemon> PokeWeb.DAL.PokeWebContext.Pokemons [get], [set]
```

Dataset to map object Pokemon in database. This used with Entity Framework to generate all resources with percistence using MySQL Server 2014.

The documentation for this class was generated from the following file:

- DAL/PokeWebContext.cs

5.7 PokeWeb.Models.Statistic Class Reference

Properties

- int speed [get, set]
- int defense [get, set]
- int attack [get, set]
- int special_defense [get, set]
- int special_attack [get, set]
- int hp [get, set]

5.7.1 Detailed Description

Statistic class represents the Pokemon sum attributes. This object is created where clint request the 6 top attacks points Pokemons

5.7.2 Property Documentation

5.7.2.1 attack

```
int PokeWeb.Models.Statistic.attack  [get], [set]
```

A attack attribute sum of the Pokemon.

5.7.2.2 defense

```
int PokeWeb.Models.Statistic.defense  [get], [set]
```

A defence attribute sum of the Pokemon.

5.7.2.3 hp

```
int PokeWeb.Models.Statistic.hp  [get], [set]
```

A speed health points sum of the Pokemon.

5.7.2.4 special_attack

```
int PokeWeb.Models.Statistic.special_attack  [get], [set]
```

A special attack attribute sum of the Pokemon.

5.7.2.5 special_defense

```
int PokeWeb.Models.Statistic.special_defense  [get], [set]
```

A special defence attribute sum of the Pokemon.

5.7.2.6 speed

```
int PokeWeb.Models.Statistic.speed  [get], [set]
```

A speed attribute sum of the Pokemon.

The documentation for this class was generated from the following file:

- Models/Statistic.cs

5.8 PokeWeb.Models.StatisticContainer Class Reference

Properties

- IList< Pokemon > pokemons `[get, set]`
- Statistic statistic `[get, set]`

5.8.1 Detailed Description

StatisticContainer class represents the list of top 6 Pokemons and statistics data. This object is created where clint request the 6 top attacks points Pokemons and used to return de statistic data and the list of top 6 Pokemons

5.8.2 Property Documentation

5.8.2.1 pokemons

```
IList<Pokemon> PokeWeb.Models.StatisticContainer.pokemons [get], [set]
```

List of 6 top attack attribute Pokemons

5.8.2.2 statistic

```
Statistic PokeWeb.Models.StatisticContainer.statistic [get], [set]
```

Statistic data about this goup of Pokemons

The documentation for this class was generated from the following file:

- Models/Statistic.cs

5.9 PokeWeb.SwaggerConfig Class Reference

Static Public Member Functions

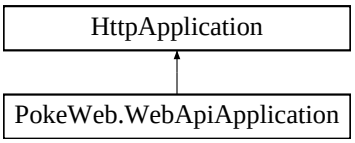
- static void **Register** ()

The documentation for this class was generated from the following file:

- App_Start/SwaggerConfig.cs

5.10 PokeWeb.WebApiApplication Class Reference

Inheritance diagram for PokeWeb.WebApiApplication:



Protected Member Functions

- void **Application_Start** ()

The documentation for this class was generated from the following file:

- Global.asax.cs

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