

Raport

Metody i narzędzia wytwarzania oprogramowania

Laboratorium: Język Groovy i platforma Grails

Prowadzący:
mgr inż. Łukasz Lipka

Autor:
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1. Odnosnik do strony:

<https://heroku-postgres-d1bbc442.herokuapp.com>

2. Odnosnik do paczki z projektem:

<https://github.com/M4RC1N/pl.polsl.herokuapp/archive/master.zip>

3. Klasy domenowe:

- klasa Brand:

```
package pl.polsl.cars

class Brand {
    static mapping = {
        table 'brand'
        version false
        columns{
            id column: 'brand_id'
            brandName column: 'brand_name'
            model column: 'model_id'
        }
    }
    String brandName
    static hasMany = [model: Model]

    static constraints = {
        brandName blank: false, nullable: false
    }
}
```

- klasa Model:

```
package pl.polsl.cars

class Model {

    String modelName
    Long id
    double engineCapacity
    double numberOfSeats
    double enginePerformance
    String type
    String fuelType
    statichasOne= [brand: Brand]

    static mapping = {
        table 'model'
        version false
        id column: 'model_id', generator: 'native', params:
```

```

[sequence: 'model_id_seq']
    modelName column: 'model_name'
    brand column: 'brand_id', updatable: false
    engineCapacity column: 'engine_capacity'
    numberOfSeats column: 'number_of_seats'
    enginePerformance column: 'engine_performance'
    type column: 'type'
    fuelType column: 'fuel_type'
}
static constraints = {

    modelName nullable: true, blank: false, validator: {value, object ->
        if (value == null) return 'modelName.null'
    }

    engineCapacity blank: false, nullable: false, validator: {value,
object ->
        if (value < 1) return 'value.mustHigh0'
        if ((value % 1) != 0) return 'value.mustInteger'
    }

    numberOfSeats blank: false, nullable: false, validator: {value, object
->
        if (value < 1) return 'value.mustHigh0'
        if ((value % 1) != 0) return 'value.mustInteger'
        if (value > 99) return false
    }

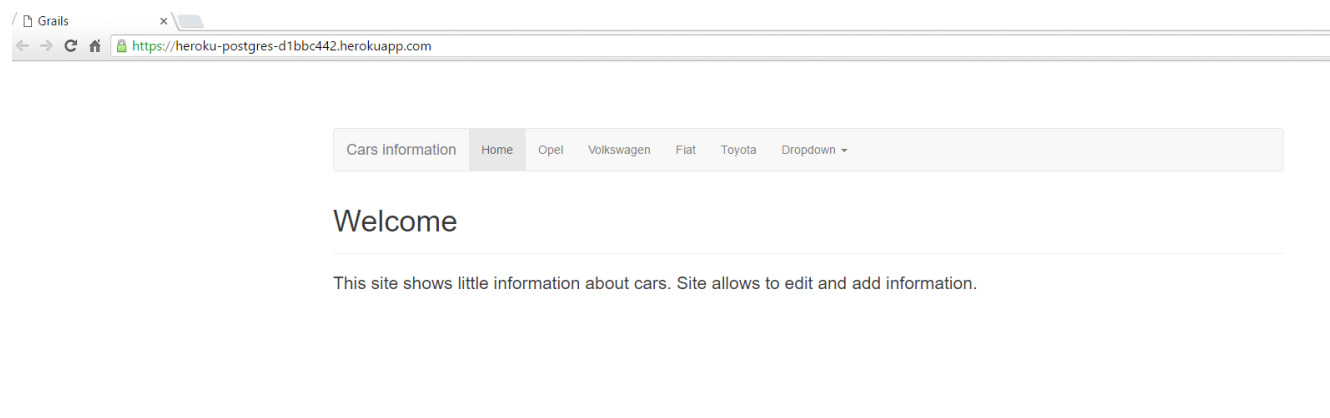
    enginePerformance blank: false, nullable: false, validator: {value,
object ->
        if (value < 1) return 'value.mustHigh0'
        if ((value % 1) != 0) return 'value.mustInteger'
    }

    type blank: false, nullable: false
    fuelType blank: false, nullable: false
}
public long getNumberOfModel() {
    Model.countByModel(this)
}
}

```

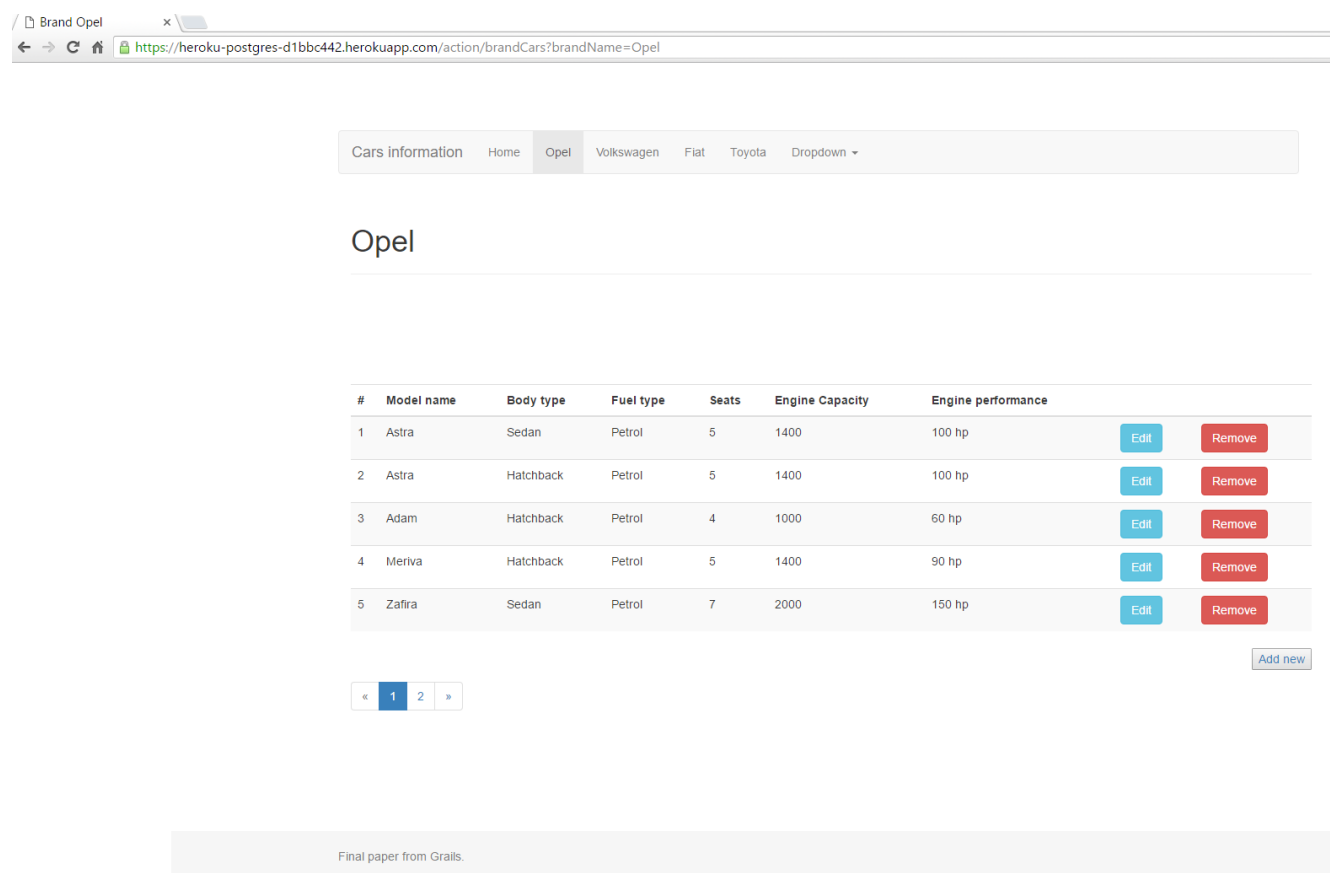
4. Wygląd strony:

Strona główna:



Ilustracja 1: Strona główna aplikacji

Lista modeli samochodów wybranej marki:



Ilustracja 2: Lista modeli samochodów

Edycja wybranego modelu samochodu:

The screenshot shows a web browser window with the address bar displaying `https://heroku-postgres-d1bbc442.herokuapp.com/action/modifyModel?modelId=29`. The page has a navigation bar with links: Cars information, Home, Opel (selected), Volkswagen, Fiat, Toyota, and a Dropdown menu. The main heading is 'Opel'. Below it, the form for editing the Opel Astra model is displayed. The fields are: Model name (Astra), Body type (Hatchback), Fuel type (Petrol), Number of seats (5), Engine capacity (1400), and Engine performance (100 hp). A 'save' button is located at the bottom right of the form.

Cars information Home Opel Volkswagen Fiat Toyota Dropdown ▼

Opel

Model name: Astra

Body type: Hatchback Fuel type: Petrol

Number of seats: 5 Engine capacity: 1400 Engine performance: 100 hp

save

Ilustracja 3: Edycji modelu samochodu

Dodawanie nowego pojazdu:

The screenshot shows a web browser window with the address bar displaying `heroku-postgres-d1bbc442.herokuapp.com/action/addModel?brandId=40`. The page has a navigation bar with links: Cars information, Home, Opel, Volkswagen, Fiat (selected), Toyota, and a Dropdown menu. The main heading is 'Fiat'. Below it, the form for adding a new Fiat model is displayed. The fields are: Model name (empty), Body type (Sedan), Fuel type (Petrol), Number of seats (0), Engine capacity (0), and Engine performance (0). A 'save' button is located at the bottom right of the form.

Cars information Home Opel Volkswagen Fiat Toyota Dropdown ▼

Fiat

Model name:

Body type: Sedan Fuel type: Petrol

Number of seats: 0 Engine capacity: 0 Engine performance: 0

save

Ilustracja 4: Dodawanie nowego pojazdu