

## Assignment 4: LCM Ltd. Company Grails Application

Before starting explaining my submission, I would like to say that *I would like to be considered for production usage* cause I think it's a very good opportunity to have a first contact with the business world and real projects.

In order to explain how I have made this assignment I would like to follow the steps I have followed doing it.

### 1. Make Grails project

First of all I have downloaded Eclipse and Grails 2.2.4 on my laptop. I have configured the 2.2.4 grails version as the default one to configure Eclipse easily. Then, I just create a Grails project using this version and Eclipse environment calling the directory as it is indicated in the assignment's description: GrailsProjectDirectory

### 2. Build Domain classes and their relationships

The next step we have to do to start creating a grails application is building the domain classes and the relationships between them. For this assignment we need to create a Company, Location and Report domain classes.

Inside each Domain we have declared the variables that we need, I attached the code for them:

Company:

- String name

Location:

- String company
- String name
- String address

Report:

- String name
- String location
- Date publicationdate
- String filename

Finally, we have to declared the relationships between them:

Location: `static belongsTo = [company:Company]`

Report: `static belongsTo = [location:Company]`

### 3. Create controllers

We have to create the controllers we need to manage each domain class. So, we create a Company controller, Location and Report one. In each of them we have the structure as the Company example one:

```
package grailsprojectdirectory

class CompanyController {

    def scaffold = true
}
```

In each of the controller we have to scaffold (property=True) to save time and generate the views we need.

### 4. 404ErrorPage

The next step we have to do is to create a 404error.gsp view that returns the exception or the error we have. Then, we have to map it with the 404 error in URLmappings.groovy that is into the conf file writing the code:

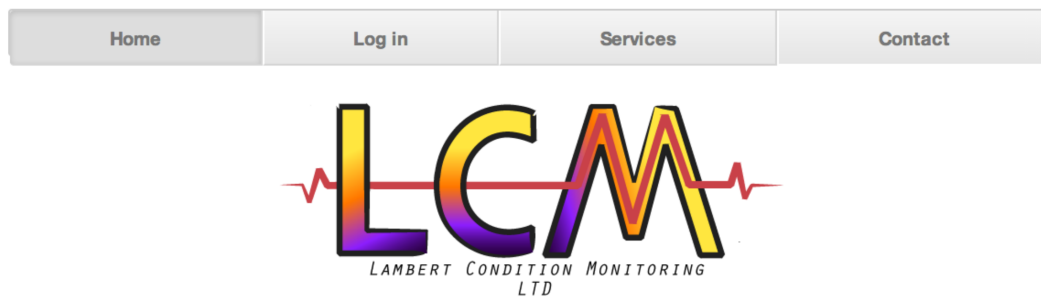
```
"404"(view: '/404error')
```

### 5. Modify main layout

To make our grails application unique for the company we are working with we have to modify the main layout in the layout views folder. That is the layout that all our pages are going to have so, if we modify it we would have all our application personalized. I have included bootstrap in the css folder in web-app folder so, to modify the layout, I have just change this code to make a call to bootstrap.css instead of the default css.

```
<link rel="stylesheet" href="${resource(dir: 'css', file:
'bootstrap.css')}" type="text/css">
```

After that, I have removed Grails Logo to LCM Logo that I have included in the images folder that is also at web-app folder. I have modify the code of the main layout making it beautiful with some containers, a nav nav-justified bar to have access to the home and to the pages I considered that we'll be developed in the next assignment. This is how my final layout looks like: (This is the index.gsp)



### Company Overview

Lambert Condition Monitoring Ltd. is experience spans over 21 years in the industrial sector of the East Coast of both islands, covering horticultural, agricultural and manufacturing industries such as timber processing companies, cool storage companies, apple packing facilities and meat processing factories.

We have found that the technology is invaluable for maintaining production and protecting client's safety and assets. These programs can greatly minimize repair and labour costs, reduce inventory of parts, and avoid product variation and production loss.

### Mission Statement

Lambert Condition Monitoring Ltd. is goal is to offer the latest world technologies in predictive maintenance to aid industry to reduce production losses and assist in their productivity, quality, safety and profitability.

### Thermography

Thermal imaging has emerged as an effective predictive maintenance technology by identifying variations that can lead to equipment failure.

By using a different spectrum of light, problems that are invisible to the naked eye become clear with an image of a thermal nature. With regular inspection, issues can be highlighted before damage occurs, saving production losses and damage to plant and equipment, leaving the machinery operating in a safe condition.

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LCM Ltd. Company

## 6. Add marketing text to index.gsp

In the index.gsp I have attached the marketing text that was provided for the assignment, I have made three columns for it in the file and in the last picture you could see how it looks like.

## Graduate Extension

Finally, I have done a new controller uploadController that I would like to attach the code here:

```
package grailsprojectdirectory

class UploadController {

    def show(){
        render(view:"upload")
    }
}
```

```
def upload(){  
    redirect(controller:"report")  
}
```

It has an action that show () a view that I have created in the upload folder in views. This view create a form that has a g: select from Location.list and a g:file that we will use in the next assignment.