

# Hogeschool Gent – faculteit Bedrijf en Organisatie

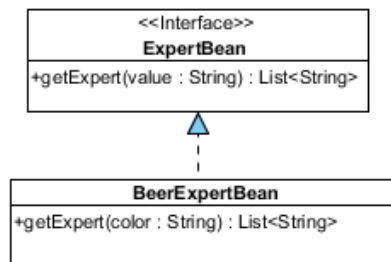
## OEFENINGEN JAVA

### Spring MVC Web Framework (1)

#### Oefening 1: MVC Web Framework

Herschrijf de oefening “Beer Selection Page” in Spring.

Gegeven: **MODEL**



```
package domain;
import java.util.List;
public interface ExpertBean
{
    public List<String> getExpert(String value);
}

package domain;
import java.util.ArrayList;
import java.util.List;
public class BeerExpertBean implements ExpertBean {

    @Override
    public List<String> getExpert(String color) {
        List<String> brands = new ArrayList<>();
        if (color == null)
            return brands;

        switch (color.toLowerCase().trim()) {
            case "light":
                brands.add("Hoegaarden");
                brands.add("Brugs Witbier");
                break;
            case "brown":
                brands.add("Westmalle bruin");
                brands.add("Leffe bruin");
                break;
            case "dark":
                brands.add("Affligem Donker");
                break;
        }
        return brands;
    }
}
```

ColorBean
<<Property>> -colorsList : List<String>
+ColorBean()

package domain;

```
import java.util.ArrayList;
import java.util.Arrays;
import java.util.List;
```

```
public class ColorBean {

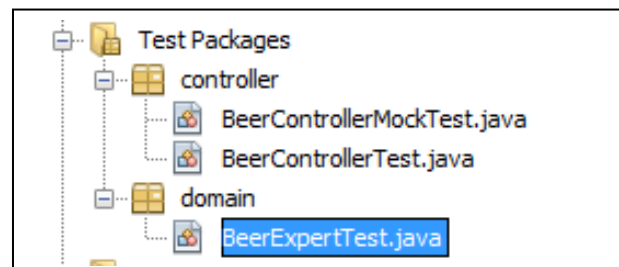
    private final List<String> colorsList;

    public ColorBean() {
        colorsList = new ArrayList<>(Arrays.asList(new String[]{"light","brown","dark"}));
    }

    public List<String> getColorsList() {
        return colorsList;
    }
}
```

## JUNIT

```
package domain;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collection;
import java.util.List;
import junit.framework.Assert;
import org.junit.Before;
import org.junit.Test;
import org.junit.runner.RunWith;
import org.junit.runners.Parameterized;
import org.junit.runners.Parameterized.Parameters;
```



```
@RunWith(value = Parameterized.class)
public class BeerExpertTest {
```

```
    private String input;
    private List<String> expResult;
    private ExpertBean beerExpert;
```

```
    private static List<String>
        resultLight = new ArrayList(Arrays.asList(new String[]{"Hoegaarden", "Brugs Witbier"})),
        resultBrown = new ArrayList<>(Arrays.asList(new String[]{"Westmalle bruin", "Leffe bruin"})),
        resultDark = new ArrayList<>(Arrays.asList(new String[]{"Affligem Donker"})),
        resultEmpty = new ArrayList<>();
```

```
@Parameters
```

```
public static Collection<Object[]> getParameters() {
    return Arrays.asList(new Object[][]{
        {"light", resultLight}, {"brown", resultBrown},
        {"dark", resultDark}, {"LIGHT", resultLight},
        {"Brown", resultBrown}, {"DaRk", resultDark},
        {" light ", resultLight}, {"l ight", resultEmpty},
        {null, resultEmpty}, {"", resultEmpty},
        {" ", resultEmpty}, {"abc", resultEmpty}
    });
}
```

```

public BeerExpertTest(String input, List<String> expResult) {
    this.input = input;
    this.expResult = expResult;
}

@Before
public void before()
{
    beerExpert = new BeerExpertBean();
}

@Test
public void colorBeerTest()
{
    Assert.assertEquals(expResult, beerExpert.getExpert(input));
}
}

```

### Gevraagd:

WebConfig  
SpringMvcInitializer

#### CONTROLLER:

BeerController  
BeerCommand

#### VIEW:

formView.jsp  
resultView.jsp

#### testklasse:

BeerControllerTest  
BeerControllerMockTest

