

TP: Simulateur de Crédit

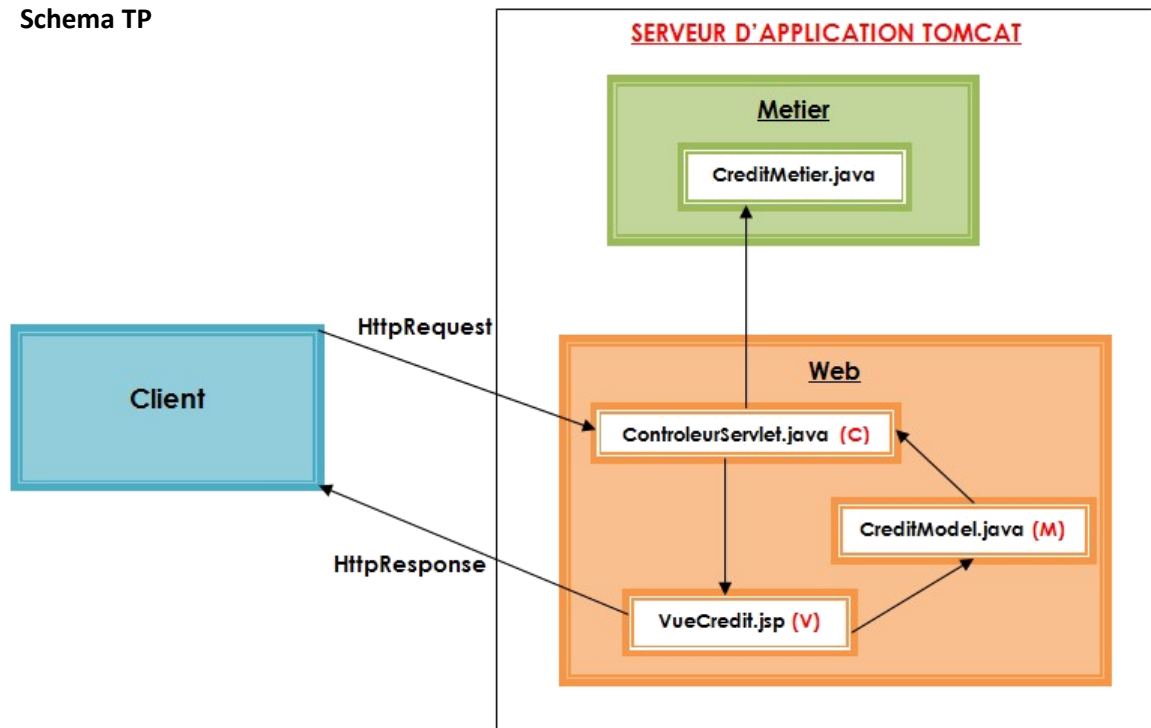
JEE, MVC, Servlet, JSP

Ayoub MOUSTAID - GLSID2

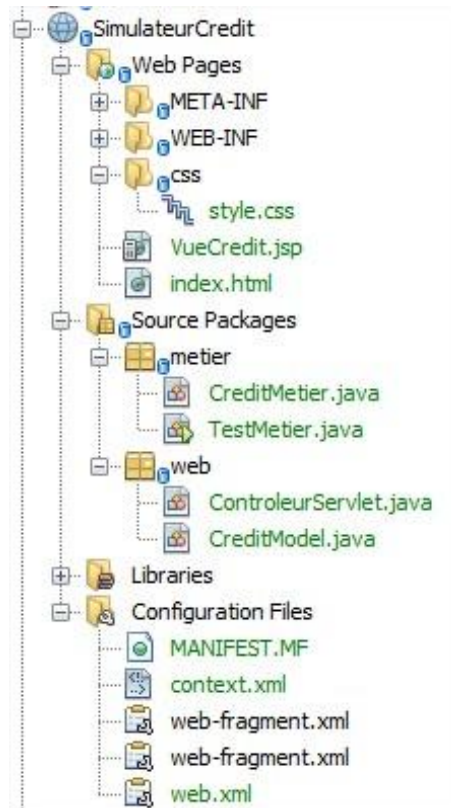
Année universitaire : 2015/2016

Structure

- Schema TP



- IDE : Netbeans - Architecture



Implémentation

1. Couche Metier

- Classe CreditMetier.java

```
package metier;

/**
 *
 * @author Ayoub MOUSTAID
 */
public class CreditMetier {
    public double calculeMensualite(double c,int duree,double taux)
    {
        double tauxExact=taux/100;
        double a=c*tauxExact/12;
        double b=1-Math.pow(1+tauxExact/12, -1*duree);
        return a/b;
    }
}
```

2. Couche Web

- Classe ControleurServlet.java

```
package web;

/**
 *
 * @author Ayoub MOUSTAID
 */
@WebServlet(name = "cs", urlPatterns = {"/controleur"})
public class ControleurServlet extends HttpServlet {

    private CreditMetier metier;
```

```

@Override
public void init() throws ServletException {
    metier = new CreditMetier();
}

@Override
protected void doPost(HttpServletRequest req, HttpServletResponse resp) throws
ServletException, IOException {
    double montant = Double.parseDouble(req.getParameter("montant"));
    int duree = Integer.parseInt(req.getParameter("duree"));
    double taux = Double.parseDouble(req.getParameter("taux"));
    CreditModel creditModel = new CreditModel();
    creditModel.setMontant(montant);
    creditModel.setDuree(duree);
    creditModel.setTaux(taux);

    double result = metier.calculerMensualite(montant, duree, taux);

    creditModel.setMensualite(result);
    req.setAttribute("creditModel", creditModel);
    req.getRequestDispatcher("VueCredit.jsp").forward(req, resp);
}

@Override
protected void doGet(HttpServletRequest req, HttpServletResponse resp) throws
ServletException, IOException {
    req.setAttribute("creditModel", new CreditModel());
    req.getRequestDispatcher("VueCredit.jsp").forward(req, resp);
}
}

```

- Classe CreditModel.java

```
package web;

/**
 *
 * @author Ayoub MOUSTAID
 */
public class CreditModel {
    private double montant;
    private int duree;
    private double taux;
    private double mensualite;

    public CreditModel() {
    }

    public CreditModel(double montant, int duree, double taux, double mensualite) {
        this.montant = montant;
        this.duree = duree;
        this.taux = taux;
        this.mensualite = mensualite;
    }

    public double getMontant() {
        return montant;
    }

    public void setMontant(double montant) {
        this.montant = montant;
    }

    public int getDuree() {
        return duree;
    }
}
```

```

public void setDuree(int duree) {
    this.duree = duree;
}

public double getTaux() {
    return taux;
}

public void setTaux(double taux) {
    this.taux = taux;
}

public double getMensualite() {
    return mensualite;
}

public void setMensualite(double mensualite) {
    this.mensualite = mensualite;
}
}

```

- Page VueCredit.jsp

```

<%--
Document : VueCredit
Created on : Apr 22, 2016, 11:55:21 AM
Author : Ayoub MOUSTAID
--%>
<%@page import="web.CreditModel"%>
<%
    CreditModel creditModel = (CreditModel) request.getAttribute("creditModel");
%>
<!DOCTYPE html>
<html>
<head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>Simulateur de Crédit</title>

```

```

<link rel="Stylesheet" type="text/css"
href="<%=request.getContextPath()%>/css/style.css"/>
</head>
<body>
<div>
<form action="contrôleur" method="post">
<table>
<tr>
<td>Montant :</td>
<td><input type="text" name="montant"
value="<%=creditModel.getMontant()%" /></td>
<td>DH</td>
</tr>
<tr>
<td>Durée :</td>
<td><input type="text" name="duree"
value="<%=creditModel.getDuree()%" /></td>
<td>Mois</td>
</tr>
<tr>
<td>Taux :</td>
<td><input type="text" name="taux"
value="<%=creditModel.getTaux()%" /></td>
<td>%</td>
</tr>
<tr>
<td><input type="submit" value="calculer"/></td>
</tr>
</table>
</form>

</div>
<div>
<table>
<tr>
<td>Mensualité : </td>
<td><%=creditModel.getMensualite()%"></td>
<td>DH</td>

```

```
</tr>
</table>
</div>
</body>
</html>
```

- Feuille de style style.css



```
/*
Created on : Apr 28, 2016, 6:47:50 PM
Author : Ayoub MOUSTAID
*/
div{
border:1px solid gray;
margin:10px;
padding:10px;
}
```

- Fichier descripteur de déploiement du contrôleur web.xml

```
<?xml version="1.0" encoding="UTF-8"?>

<web-app xmlns="http://xmlns.jcp.org/xml/ns/javaee"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd"
version="3.1">
<display-name>SimulateurCredit</display-name>
<servlet>
<servlet-name>cs</servlet-name>
<servlet-class>web.ControleurServlet</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>cs</servlet-name>
<url-pattern>/controleur</url-pattern>
</servlet-mapping>
</web-app>
```


Testes

  localhost:8084/SimulateurCredit/controleur

Montant :

DH

Durée :

Mois

Taux :

%

calculer

Mensualité : 1023.0595941059316 DH