# Compte rendu

# TP DÉVELOPPEMENT ORIENTÉ SERVICES

Réaliser par

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# Exemple1: implémentation d'un service web calculatrice

#### 1 - Création de la classe Calcul

```
☑ Calcul.java 
☒
j serveur.java
 package idl1;
 2
 3
 5⊕ import javax.jws.WebMethod; ...
9 @WebService
10 public class Calcul {
11
       //exposé dans le web
12⊝
        @WebMethod
        public int somme(@WebParam(name="a")int a ,@WebParam(name="b") int b ){
13
14
            return a+b;
15
16
17⊝
        @WebMethod
        public int soustraction(@WebParam(name="a")int a ,@WebParam(name="b") int b ){
18
19
            return a-b;
20
21
22⊝
        @WebMethod
        public int multiplication(@WebParam(name="a")int a ,@WebParam(name="b") int b ){
23
24
           return a*b;
25
26
27
28
29 }
30
```

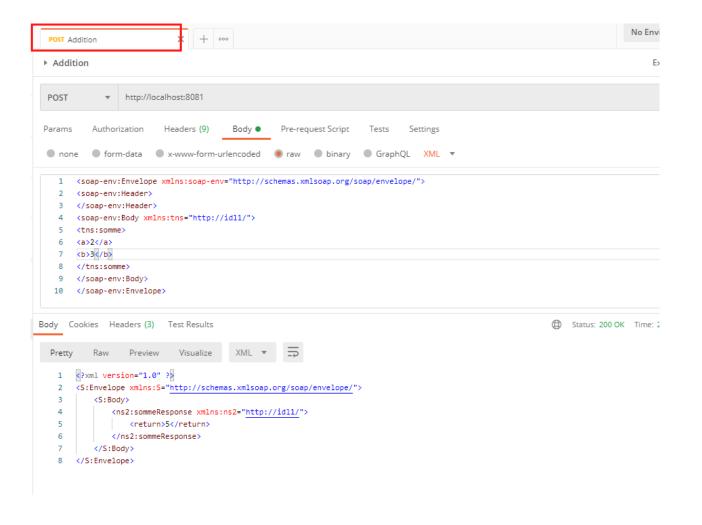
# 2- Création de serveur pour publier les web services

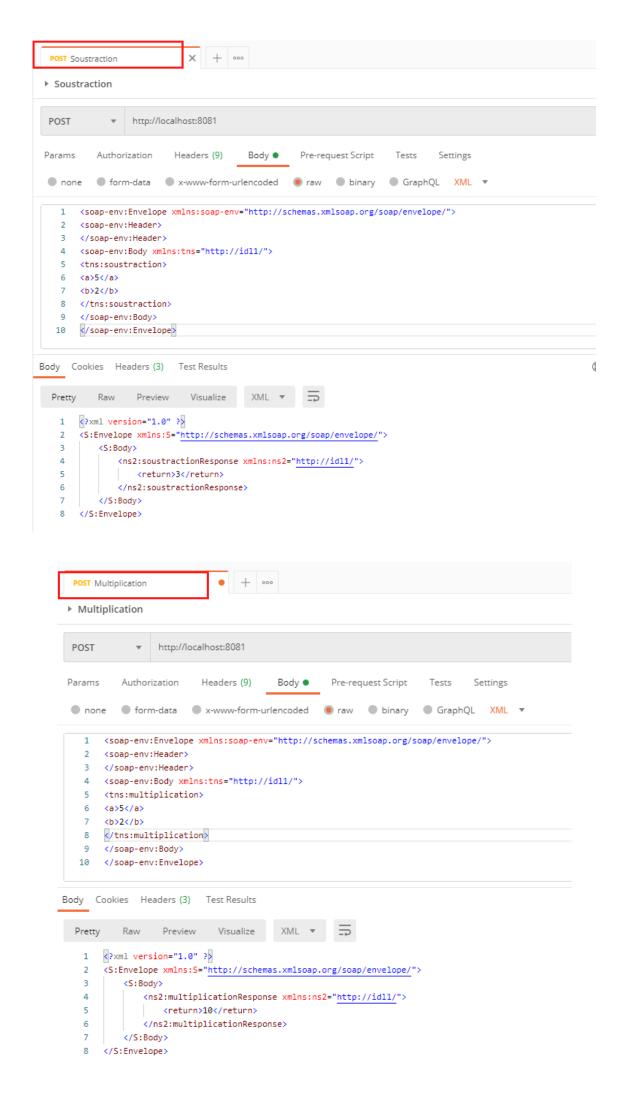
```
🕽 serveur.java 🔀
                 Calcul.java
     package idl1;
  1
  2
     import javax.xml.ws.Endpoint;
  3
  4
  5
     public class serveur {
  6
  7
         static final String URL ="http://localhost:8081/";
  8
  9
 10⊝
         public static void main(String[] args) {
<u>4</u>11
             // TODO Auto-generated method stub
 12
             System.out.println("running on"+URL);
           Endpoint.publish(URL, new Calcul());
 13
14
 15
 16
```

#### 3- Génération de fichier WSDL

```
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```

# 4- Tester sur postman





# Exemple2: implémentation d'un service web UserService

#### 1 - Création de la classe User

```
1 package idl1;
  3⊕ import javax.xml.bind.annotation.XmlAccessType; ...
 8 @XmlRootElement
 9 @XmlAccessorType(XmlAccessType.FIELD)
 10 public class User {
 11 private String username;
 12⊖ @XmlTransient
 13 private String password;
14⊖ public String getUsername() {
        return username;
16 }
 17⊖ public void setUsername(String username) {
        this.username = username;
18
19 }
 20@ public String getPassword() {
 21 return password;
 22 }
 23⊖ public void setPassword(String password) {
       this.password = password;
 25 }
 26⊖ public User(String username, String password) {
        super();
        this.username = username;
 28
        this.password = password;
 29
 30 }
 31⊖ public User() {
 32
        super();
 33 }
 34
 35
```

### 2 - Création de UserController

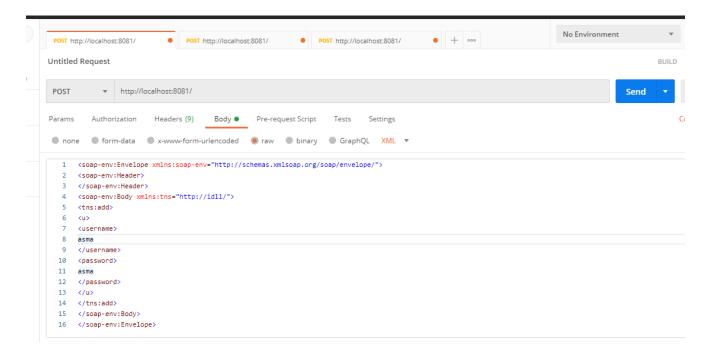
```
serveur.java
                User.java
                            🚺 Usercontroller.java 🔀
 1 package idl1;
 3⊕ import java.util.ArrayList;
 9 @WebService
10 public class Usercontroller {
11
        public List<User> listU=new ArrayList<>();
12
13⊖
       @WebMethod
        public User add(@WebParam(name="u")User u ){
14
15
        listU.add(u);
16
            return u;
17
18
19⊖
        @WebMethod
        public List<User> delete(@WebParam(name="id")int id ){ //id is the index of the user to be deleted
20
21
        listU.remove(id);
22
        return afficheruser();
23
24
25
26⊝
        @WebMethod
 27
        public List<User> afficheruser(){
28
 29
        return listU;
30
31 }
```

# 3- Création de serveur pour publier les web services

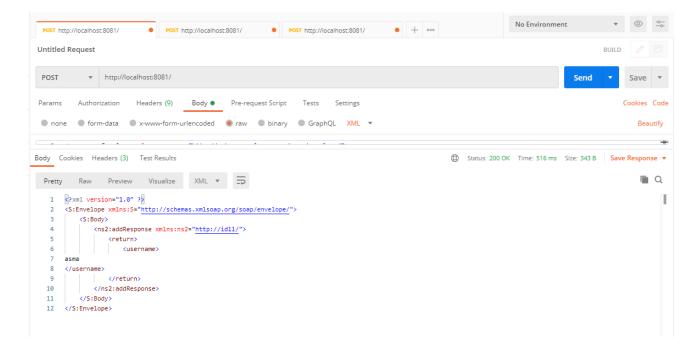
```
User.java
              Usercontroller.java
                                    🔰 serveur.java 💢
   package idl1;
 2
 3
    import javax.xml.ws.Endpoint;
 4
 5
    public class serveur {
 6
 7
        static final String URL ="http://localhost:8081/";
 8
 9
        public static void main(String[] args) {
10⊝
11
            // TODO Auto-generated method stub
12
            System.out.println("running on"+URL);
13
          Endpoint.publish(URL, new Usercontroller());
14
        }
15
16
    }
17
```

# 4- Tester sur postman

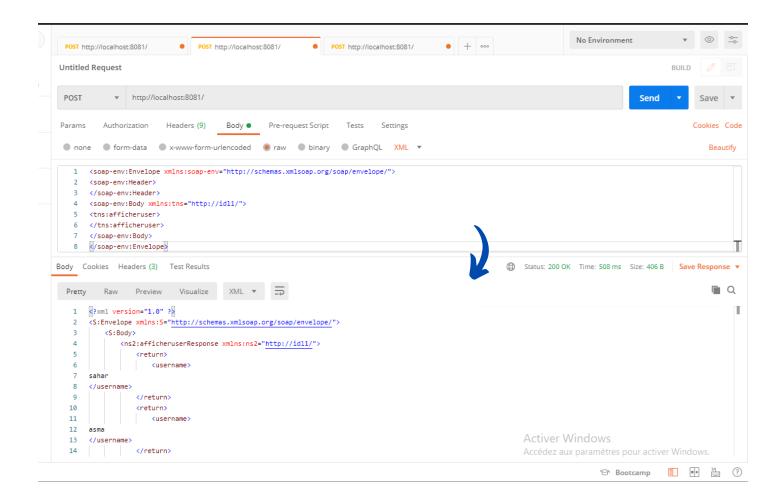
# Ajouter un client







#### Afficher liste des clients



# Supprimer un clients

