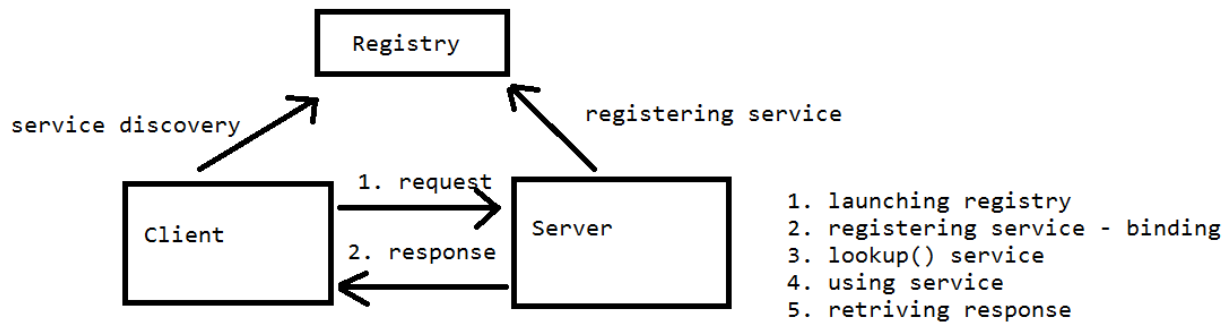


Simple Java-RMI example

Java RMI method



1.) Should we define RObject interfaces, both implements Remote interface

```
import java.rmi.*;

public interface RObject extends Remote {
    // simple parameters
    void primitiveArg(int num) throws RemoteException;
    // parameters by value
    void argumentByValue(Integer num) throws RemoteException;
}
```

2.) Lets implement the codes of the remote objects

```
import java.rmi.RemoteException;
import java.rmi.server.UnicastRemoteObject;

public class RObjectImpl extends UnicastRemoteObject implements RObject {
    private static final long serialVersionUID = 6350331764929058681L;
    public RObjectImpl() throws RemoteException {
    }
    @Override
    public void primitiveArg(int num) throws RemoteException {
        System.out.println(num);
    }

    @Override
    public void argumentByValue(Integer num) throws RemoteException {
        System.out.println(num);
    }
}
```

3.) Lets create an instance of the remote object and launch registry and bind to the registry.

```
import java.rmi.Naming;

import org.ait.RObject;
```

```
import org.ait.RObjectImpl;

public class RegisterService {
    /**
     * @param args
     */
    public static void main(String[] args) {
        try {
            java.rmi.registry.LocateRegistry.createRegistry(1099);
            RObject robj = new RObjectImpl();
            Naming.rebind("rmi://localhost:1099/RObjectServer", robj);
            System.out.println("Registered...");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

4.) Use the remote object

```
import java.rmi.Naming;

public class Client {
    public static void main(String[] args) {
        try {
            // registry binding
            RObject robj = (RObject) Naming
                .lookup("rmi://localhost:1099/RObjectServer");
            robj.primitiveArg(2012);

            robj.argumentByValue(new Integer(2012));

        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

From:

<https://edu.iit.uni-miskolc.hu/> - **Institute of Information Science - University of Miskolc**

Permanent link:

https://edu.iit.uni-miskolc.hu/tanszek:oktatas:java_rmi

Last update: **2015/03/23 11:08**

