

Semantic Web Services - PS 703655

Assignment 3 Web Services

Deadline: 19.04.2018 08:00

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1 SOAP Web Services (20 points)

Use your favourite programming language and tools¹ to create a SOAP web service based on the interface in Listing 1.

Product is a complex type that is shown in Listing 2.

To complete the assignment, please submit the following:

¹e.g. JAX-WS, .NET WCF

```
public interface IProductService
{
    //returns the list of all products
    List<Product> getProductList();

    //returns the product object whose id is given
    Product getProduct(int productId);

    //returns true if the order is successful, otherwise returns false
    bool order(int productId, int quantity);
}
```

Listing 1: Interface for the web service

```
public class Product
{
    int productID ;
    string name;
    double price;
}
```

Listing 2: Product type

- WSDL document (7 points)
- One SOAP request and one SOAP response for each operation (6 points)
- One SOAP fault: Define one exceptional situation for one operation (e.g. product not found exception for getProduct operation) and create a SOAP fault for it. (7 points)