

Interoperability

Assignment 05

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Link to client:

<https://wwwlab.cs.univie.ac.at/~alrubayem88/assignment5/client.php>

Link to server:

<https://wwwlab.cs.univie.ac.at/~alrubayem88/assignment5/server.php>

Link to WSDL:

<https://wwwlab.cs.univie.ac.at/~alrubayem88/assignment5/crud.wsdl>

Code Review Assessment Table

Requirement	Fulfilled by Part of Code
R0 (Use XPath to select nodes for CRUD operations)	All CRUD functions (create, update, delete, read) use DOMXPath for node selection.
R1 (At least 1 operation must use floats or integers as input parameter)	update and create operations take Amount and CharacterStrength as float and integer respectively.
R2 (At least 1 operation must use strings as input parameter)	All CRUD functions use string parameters such as UserID, Email, Type, etc.
R3 (At least 1 operation must use a date as input parameter)	create operation uses SubscriptionStartDate and SubscriptionEndDate as date input parameters.
R4 (Complex data structures as input and output)	create operation uses complex data structures for input (ObjectArray, PrimitiveArray) and structured XML for output.
R4.1 (At least one array of some primitive type)	PrimitiveArray in create operation.
R4.2 (At least one array of objects with mixed types)	ObjectArray in create operation contains objects with mixed types (number and object).
Complex structures specified in WSDL	Definitions for MixedObject and arrays in WSDL types section.
Avoid manual serialization/deserialization	Proper handling of complex types in the SOAP framework via WSDL, ensuring automatic marshalling.

R5 (Read operation should return JSON and XML)	read operation converts XML data of the user to both JSON (userJson) and XML (userXml).
R6 (All operations must have at least two input parameters)	All CRUD operations require multiple parameters such as UserID, Email, etc.
R7 (All operations except 'read' should have side effects)	create, update, and delete operations modify the XML data and save changes, thus have side effects.