

Corso di Service Oriented Architectures

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The exam is open book, open notes. Please write your name and student number your exam paper.

Esercizio 1 (10 punti) Con riferimento al seguente file WSDL/with reference to the WSDL interface below:

```
<?xml version="1.0"?>
<wsdl:description xmlns:wsdl="http://www.w3.org/ns/wsdl" xmlns:wsoap=
"http://www.w3.org/ns/wsdl/soap" xmlns:hy="http://www.sample.com/Service/" targetNamespac
e="http://www.sample.com/Service/">
<wsdl:types>
<xsd:schema
xmlns:xsd="http://www.w3.org/2001/XMLSchema" targetNamespace="http://www.sample.com/Servi
ce/"> <xsd:element name="Echo" type="xsd:string"/> <xsd:element name="EchoResponse"
type="xsd:string"/>
</xsd:schema>
</wsdl:types>
<wsdl:interface name="EchoInterface" >
<wsdl:operation name="Echo" pattern="http://www.w3.org/ns/wsdl/in-
out" style="http://www.w3.org/ns/wsdl/style/iri">
<wsdl:input messageLabel="In" element="hy:Echo" />
<wsdl:output messageLabel="Out" element="hy:EchoResponse" />
</wsdl:operation>
</wsdl:interface>
<wsdl:binding
name="EchoBinding" interface="hy:EchoInterface" type="http://www.w3.org/ns/wsdl/soap" wso
ap:protocol="http://www.w3.org/2003/05/soap/bindings/HTTP/">
<wsdl:operation ref="hy:Echo" wsoap:mep="http://www.w3.org/2003/05/soap/mep/soap-
response"/>
</wsdl:binding>
<wsdl:service name="EchoService" interface="hy:EchoInterface">
<wsdl:endpoint
name="EchoEndpoint" binding="hy:helloBinding" address="http://sesar.dti.unimi.it/Service/
Echo_SOAP_12.php"/>
</wsdl:service>
</wsdl:description>
```

- (1) Provide a sample SOAP request and the corresponding response. Include a sample HTTP header for both. Fornite una richiesta SOAP e la corrispondente risposta. Specificate l'intestazione http di entrambe
- (2) Identify the parts of the interface that need to be changed to bind the service to a different server and explain the modifications you would need. Identificate le parti dell'interfaccia da modificare per eseguire il binding a un server diverso e spiegate le modifiche da apportare.

Exercise 2 (20 punti) You have been asked to design a RESTful service to be used as an interface to a multi- user daily calendar. Explain: Vi è stato chiesto di realizzare un servizio REST che gestisca un'agenda giornaliera multi-utente. Spiegate:

- (1) the URL space you propose. Keep in mind the need to have a unique URL for each day of each user. Lo spazio delle URL in modo da avere un'unica URL per ogni coppia utente/data
- (2) the CRUD primitives you provide, specifying whether you choose high or low REST and motivating your choice. Le primitive CRUD che fornite, specificando se usare high or low REST e motivando la scelta
- (3) write the sample HTTP request for creating a new file. Scrivete la richiesta http per creare un file
- (4) write the sample HTTP request for deleting an existing file. Scrivete la richiesta http per cancellare un file esistente
- (5) Explain what happens if one tries to delete a non-existing file/Cosa succede se un client tenta di cancellare un file inesistente?