

Service Oriented Architectures

15-09-2020

Exercise 1 (10 points)

You are expected to create a SOAP service called USERDATA receiving four string parameters (APP_id, API_key, email, password). The USERDATA service should return an XML object USER from which the following information about the user can be obtained:

- Birth date
- Display name
- Email
- First name
- Last name
- Gender

Provide the skeleton of the WSDL interface of the service and a sample SOAP return message for the service.

Exercise 2 (10 points)

Discuss how to exploit SOAP multi-hop delivery to guarantee confidentiality of the USERDATA response via an intermediary, outlining the SOAP headers that would be handled by the intermediary and the attributes

Exercise 3 (10 points)

Describe a RESTful API for the USERDATA service, including creation, read, update and modification of user data. Is it better to use high or low REST? How would you guarantee confidentiality of the REST response?