

Assignment - 5

Internet Programming

CSA 4307 -

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1) WSDL Integration In E-commerce Payment Gateway

WSDL (web services description language) provide a necessary details about the web service including methods, datatype and Protocol used

Steps Involved

1) Import the WSDL [Eg: using tools like Apache, Jaxa]



2) Generate client - side code (stubs) using WSDL



3) Invoke the Service



4) Handle Error



5) Secure the Communication

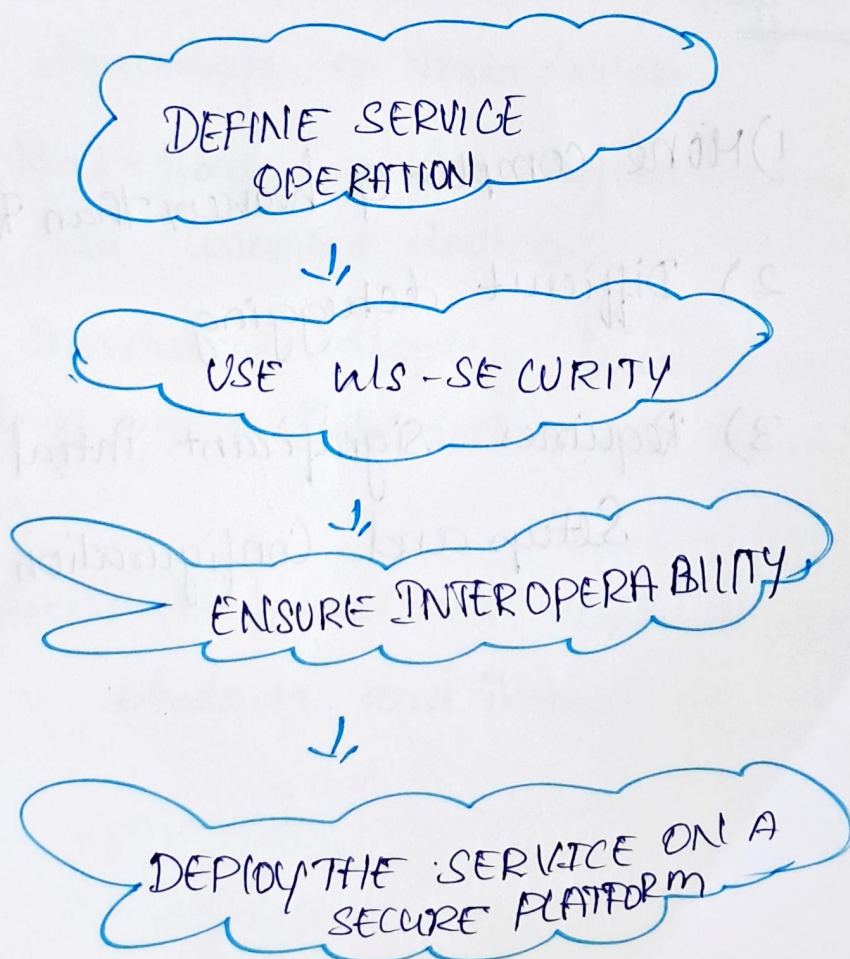
Steps Explained

- 1) Import the WSDL into your deployment Environment (Eg using tools like Jaxa, Apache)
- 2) Generate client-side code (stubs) using the WSDL This auto-generate methods and data structures to call the service
- 3) Invoke the service by calling the generated methods with appropriate parameters
- 4) Handle Error by Implementing Exception handling for network issues
- 5) Secure the Communication using http and authentication methods like tokens.

Leveraging SOAP in Financial Application

SOAP - (Simple Object Access Protocol) is ideal due to rigid structure and security standards

Steps Involved



Advantages

- 1) platform Independence
- 2) Strong security (with its security)
- 3) Structured and well defined Messaging

Challenges

- 1) More complex & heavier than REST
- 2) Difficult debugging
- 3) Requires significant initial Setup and Configuration

M2M - Communication in e-learning

M2m - (machine-to-machine) Communication allow devices (smartboards, tablets, laptops) to share data automatically and real-time

Benefits in classroom learning

=> students can collaboratively edit and share documents on their devices

=> Real-time updates reflect changes across all connected devices.

=> Smartboards display live changes, enabling group interaction and visual learning

=> facilitates feedback and discussions between students and instructors

Overall Impact

Encourages active
Learning



Improves Engagement
and
Participation



Creates a seamless dynamic
and collaborative
Educational
Experiences