Assignment - 5

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soap fault is caused due to client or server failure" state T/F with justification.

- SOAP provides a model for handling faults
- It distinguishes between the conditions that result in a fault, & the ability to signal that fault to the originator of the faulty message or another node.

 The soap < Body > is the place where fault information is placed.

2) Give the use of soap actor attribute.

The actor attribute is optional, but if it is used, it must appear in a soaphead er Element object. It purpose is to indicate the recipient of
a header element. The default actor is the message ut ultimate recipient; that is, if no actor
attribute is supplied, the message goes directly to the ultimate recipient.

An actor is an application that can both receive SOAP message & forward them to the next actor. The ability to specify one or more actors as intermediate recipients makes it possible to route a message to multiple recipients & to supply header information that applies specifically to each of the recipients.

Date.

3) What do you mean by wire protocol & tran

Sport protocol?

In a network a wire protocol is the mechanism for transmitting data from point a to point The term is a bit confusing, because it sounds like layer 1 of the network, which physically places the bits "onto the wire". In some case it may refer to layer 1, however, it generally refers to higher layers, including Ethernet & ATM & even higher layer distributed object protocols such as SOAP, CORBA ORRMI

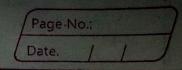
Transport protocols are key to the success of any network, including the world wide web & the Internet in general. A through understanding of transport & how they work is key to understanding web services. One of the most powerful design decision with soap was to make it transport independent, which means that you can send message over any transport Jou choose.

4) Inhat is SOAP message path?

A soap intermediary is both a soap receiver & a soap sender. It can, & in some cases must, process the header blocks in the Soap message, & it forwards the soap message toward its ultimate receiver. The ultimate soap receiver is the final destination of soap message.

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sounds -	The SOAP must Undomater I will !
(0)17	mandatory or optional to header entry is
renero-	a child element of the library tand = "1" to
uted	includes indicates that the reciever processing the Header must recognize the element.
6) E	xplain in short And
07	rk for construction compresent engine - a framew
nt	version of Aria ailliands etc. The curre-
C+	t implementation of the client side of Axis being developed.
S 4 Marks	Banking and the state of the st
	o error are hardly
SOAI	an example for adding fault in XMI of
> 50AP	Surar and
occ ur	TS while the challepe. It an amount
it bo	ack to the structs a soap fault & sends
A 50,	AP fault is a special element that must as an immediate child of the soap
	chilly of the SOAP

7	body element. The <faultcode> 3 < faults ring > element are required. The <faultactor \$="" <="" detail=""> elements. are optional. The body & Pault elements are namespace. qualified to the envelope's namespace. for example. < soap - ENV: body > \$ < soap. ENV fault > 2> What are advantages & disadvantages of SOAP? Advantages Disadvantages Disadvantages Disadvantages Security known as that must be parsed to cos security. be read "IN SOAP web services "IN It defines many standard can be written in any that must be followed while Programming language developing the soap appli- Platform. Platform.</faultactor></faultcode>
	The second of th
	What is SOAP? Give the structure of SOAP message, explain it. SOAP is a message protocol that enables the distributed elements of an application to communicate. A soAP message is encoded an XML document, consisting of an < Envelope > element, which contains an optional < Header > element, & a mandatory < Body > element.



White in detail on SOAP with attachment.

SOAP with attachement, also known as MIME for web services A MIME - based attachement mechanism for soAP. Soap UI supports plain swA as well as swref attachement in accordance with the ws-I attachement profile SOAP UI also supports specifying file names inline to insert binary contents from a file into a message body. Support & inlining require internal processing & can be disable in the project properties.

Give an example XML code snipet for error handling in SOAP using fault element, also explain it.

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c) Consider an example, simple stock tracking ser Nice that defines a single method for buying Stock. The buy () method returns the cost of purchasing a specified quantity of a particular stock Here is method declaration public float buy (int quantity istring symbol). Write a SOAP request for invoking the method.

Write an example of document styled SOAP body 7> Document style

< soap : envelope >

< Soup : body >

< x > 5 < / x >

< >> 5.0 < / > < / >

</soap: body>

</soup: envelope >

A document style soap message body contains an XML document that can be validated against a defined XML schema. It is a more constomizable & flexible approach as the protocol relies on the pre-defined schema to determine the

Date. / / / Structure of the soap message. That means we are free to customize the soap message as much as we want. 8) Draw the Structure of SOAP with attachment mess. age, give an example & explain it. SOAP part SOAP Envelope SOAP Header (optional) Header Headen SOAP Body XML Content or SOAP Fault A soap message is an ordinary XML document containing the following element -- Envelope - Define the start & the end of the message It is a mandatory. Header - Contains any optional attribute of themeosage used in processing the message, either at an intermediary point or at the attributes ultimate end point. It is an optional element. Body - Contains the XML data comprising the mes sage being sent. It is a mandatory element. Fault - An optional fault element that occur while processing the message

Write the anatomy of soap message & describe each element. Most of us interact with REST API'S on a regular basis, but from time - to - time we need to interact with SOAP API'S as well. R those of us with less exposure to soAP. REST API'S are like the shire & SOAP ADIS are a little like Mordor. They are dark & scary & full or orcs - Working with REST APIS - Sending requests to an API SOAP APIS utilize a document called a cospl which give us information about the structure of the soap message, among other information. The WSDL is not in the scope of this post that Lou can A client want to invoke web service for reque-10) sting price of a book " Developing Java web services", write down the RPC request & resp. one code for the same. a Andt the only all hound aguta