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2 marks

A web service is a unit of managed code that can be remotely invoked using HTTP. That is, it can be activated using HTTP requests web services allow you to expose the functionality of your sxisting code over the network, once it is sxposed on the network, other applications can use the functionality of your program.

2A) components of wsdl:-

- 1. 2types > Defines the (xML schema) data types used by the web services.
- 2. <message> Defines the data slements for each operation.
- 3. 2 portType> Defines the operations that can be
 performed & the messages Involved.
- u. Zbinding > Defines the protocol and data format for each port type.

3A) Technologies used by ajax:

- . HTML/XMML and CSS.
- · DOM
- . XML ON JSON
- . ASP OF JSP
- . XMIHHHP Request
- · Javasvipt

- HA) jax-ws: jax-ws stands for Java API fox xme wel services jax-us is mu boused java APT to build well services, perver and client application. Its port of standard. Java APT, so we don't need to Include anything else which working with it.

5A) UDDI: universal Description, Discovery & Integration (UDDI) specifications define a registry service for web services and for other electronic & non-electronic -onic services. A UDDI registry service is a web servi that manager information about service provides, service Implementations & service metadouta.

10 Marles

The AJAX Framework is a cross browder frame -work that allows developers to quickly develop web pages that can call web xervices, web pages and other types of content through Javascript with at having to submit the awarent page.

The AJAX Promowork is:

- · Easy to use.
- . nooth well with other existing frameworks.
- · supports both "GET and "POST".
- , works with Internet Explorer 6+, opena 8+, safai 3+ Firefox 2+, Google's chrome and other mozilla based browser.

```
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Eximple:
call page
function pagecall back (response) {
     alent (response);
 van ajar=new Gilm. AJAXI);
 ajax.callpage ("mypage.html", pagecallback);
service call Example:
 function pervice callback (response) &
      dert (response);
vax ajax = new GLM. AJAX();
ajax. callservice ("mywebservice.asmx", "mymethod's
                         call", servicecallback);
Servicecall with parameters on.
function service callback (response) {
      alont (response);
var ajax = new GIM. AJAX ();
errot handling Ex:
function myerror Handler (error) ;
     alert (error);
```

var ajax = new GLM. AJAX ();

ajax. on Error = my trror Handler;

174101A0584 12502: - It is an xme format for describing network services as a set of endpoints operating on message containing either document-oriented or procedure -oriented information. The operations to messages are described abstractly, and then bound to a concret network protocol & message format to define an endpoint. structure: =definitions >

etypes>

data type definitions ...

eltypes>

definition of the data being communicated... emessage)

2/menage>

zportType>

set of operations

2/portType>

protocol and data format specifications... 2 binding >

</bridge>

= Idefinition>

```
example;
definitions name = "Helloservice"
  target namespace = "http://www.examples.com/will
                      Helloservice used!"
   xmlns="http://schemas.xmlsoap.org/wedl/
   Messigra, quochux, comerbs //: qtt "= apol: 2nlmx
   Andns: tro = "http://www.examples.com/wed/Helle
                                  bewice will
   xnulys: xsd = "http://www.w3.org/2001/xmlswhim
 message name = "Say Hello Reguest">
    sport name = firstname type = "xsd: string />
 4 (message)
 1 message name = "saytellorespouse">
    spart rame = "greeting" type = "xsd. string"/>
 2/menage>
 aportType Name = "Hello-PortType">
    experation name: say Hello's
       2 Input message = "ths: Sayttello Request"/s
       content message =" tns: Sayttello Pesponse />
   2/operation>
 alport Type>
 abinding name = "Hello_Binding" type = "the : Hello-poily
     LSDap: binding style = " TPC
        transport = "http://sehemas.xmlsoap.org/soap
     coperation rame = "Sayttello">
```

17410140584 Lsoap: operation soapAction="SayHello"}> 29 nput Loap: body encodingstyle: "http://schemas.xom/soap.org/ sooplencoding/ ramespace = "urn: example: helloservice" uxe = "encoded"/> 219 nput> 20utput> 2500/2: body encodings tyle: "Http://schemas.xnlsoop.org/ soop (encoding)" nouvespace = "urn: examples: hellowervice" use = "encoded"/> 2/output> 2 loperations albinding> eservice name : "Hello-service"> documentation> wspc file for Helloservice 2 (documentation) aport binding = "trs: Hello-Binding name = "Hello-parts LSOOP; address Location = "http://www.examples.com/sayttellois Uport > elservice> </br>
/definitions>