

#### 4) Java Script & XML

4.1) Write a JavaScript to validate the following fields in a registration page created in week 2

a. Name (start with alphabet and followed by alphanumeric and the length should not be less than 6 characters)

b. Password (it allows alphanumeric, special symbols and should not be less than 6 characters)

c. E-mail (should not contain invalid email addresses)

```
<html>
<head><h1 align=center>Welcome to Validation
Checking</h1><hr width=50%>
<script language="javascript">
function validation()
{
var x=f.un.value;var len=x.length;
var val=x.charCodeAt(0); var p=f.pw.value;
var c=f.cpw.value;var a=f.email.value;
var atpos=a.indexOf("@");var dotpos=a.lastIndexOf(".");
if(len<6||x==""||x==null)
{
alert("check your username! must be minimum 6 characters");
}
else if(val<65 || val>90&&val<97 || val>122)
{
alert("username must be begin with an alphabet");
return false;
}
else if(p==" " || c==" " || p.length<6 || c.length<6 || p!=c)
{
alert("password and confirm password should be same and greater than 6 characters!");
return false;
}
else if(atpos<6 || dotpos<atpos+6 || dotpos+2>=a.length)
{
alert("Not a Valid email id");
return false;
}
else
alert("Congratulations!you have submitted successfully");
}
</script>
</head>
<body>
<table align=center border=1>
```

```

<form name="f" action="success.html" onsubmit="return validation();" method="post">
<tr><td>User Name:</td>
<td><input type="text" name="un"/></td></tr>
<tr><td>Password:</td>
<td><input type="password" name="pw"/></td></tr>
<tr><td>Confirm Password:</td>
<td><input type="password" name="cpw"/></td></tr>
<tr><td>E-mail ID:</td>
<td><input type="text" name="email"/></td></tr>
<tr><td></td>
<td><input type="Submit" name="Submit"/></td></tr>
</form></table></body></html>

```

**OUTPUT:**

### Welcome to Validation Checking

User Name:	Vijaya Durga
Password:	*****
Confirm Password:	*****
E-mail ID:	18A91A05H8@aec.edu.in
	Submit

#### This page says

Congratulations! you have submitted successfully

OK

Confirm Password:	*****
E-mail ID:	18A91A05H8@aec.edu.in
	Submit

**4.2) Write an XML file which will display the Book information which includes the following:**

- a) Title of the book ;b) Author Name ;c) ISBN number ;d) Publisher name
- e) Edition ;f) Price

**Write a Document Type Definition (DTD) to validate the above XML file and display the details in a table (to do this use XSL).**

**Book.dtd:**

```

<!ELEMENT bookdetails(books+)>
<!ELEMENT books(title,author,isbn,publisher,edition,price)>
<!ELEMENT title(#PCDATA)>
<!ELEMENT author(#PCDATA)>
<!ELEMENT isbn(#PCDATA)>
<!ELEMENT publisher(#PCDATA)>
<!ELEMENT edition(#PCDATA)>

```

<!ELEMENT price(#PCDATA)>

**Book.xml:**

<?xml version="1.0"?>

<!DOCTYPE bookdetails SYSTEM "book.dtd">

<?xml-stylesheet type="text/xsl" href="book.xsl"?>

<bookdetails>

<books>

<title>C</title>

<author>Balaguruswamy</author>

<isbn>123456</isbn>

<publisher>Oxford</publisher>

<edition>Edition-II</edition>

<price>\$30.00</price>

</books>

<books>

<title>C++</title>

<author>yaswanth kanethkar</author>

<isbn>654321</isbn>

<publisher>Tata McHill</publisher>

<edition>Edition-I</edition>

<price>\$35.00</price>

</books>

<books>

<title>JAVA</title>

<author>Herbert Schildt</author>

<isbn>789456</isbn>

<publisher>Cenage</publisher>

<edition>Edition-IV</edition>

<price>\$50.00</price>

</books></bookdetails>

**Book.xsl:**

```
<?xml version="1.0"?>
<xsl:stylesheet version="2.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
<xsl:template match="/">
<html>
<head><center>Book Details</center></head>
<body>
<hr width="50%"/>
<table border="1" align="center">
<tr>
<th>TITLE</th>
<th>AUTHOR</th>
<th>ISBN</th>
<th>PUBLISHER</th>
<th>EDITION</th>
<th>PRICE</th>
</tr>
<xsl:for-each select="bookdetails/books">
<tr>
<td><xsl:value-of select="title"/></td>
<td><xsl:value-of select="author"/></td>
<td><xsl:value-of select="isbn"/></td>
<td><xsl:value-of select="publisher"/></td>
<td><xsl:value-of select="edition"/></td>
<td><xsl:value-of select="price"/></td>
</tr>
</xsl:for-each>
</table></body></html></xsl:template>
</xsl:stylesheet>a
```

**OUTPUT:**

k.xml ▼ ↺ Search...

Book Details

TITLE	AUTHOR	ISBN	PUBLISHER	EDITION	PRICE
C	Balaguruswamy	123456	Oxford	Edition-II	\$30.00
C++	yaswanth kanethkar	654321	Tata McHill	Edition-I	\$35.00
JAVA	Herbert Schildt	789456	Cenage	Edition-IV	\$50.00