- 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 fasle;
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>
```

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

<input type="Submit" name="Submit"/>

<input type="Submit" name="Submit"/>

<input type="Submit" name="Submit"/>

<input type="Submit" name="Submit"/>

<input type="Submit" name="Submit"/>

<input type="Submit" name="Submit"/>

<input type="Submit" name="Submit"/>

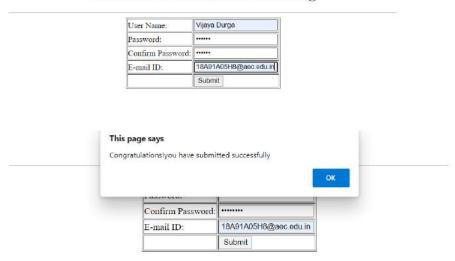
<input type="Submit" name="Submit"/>

<input type="Submit" name="Submit"/>

<input type="Submit" name="Submit"/>

<input type="submit" name="Submit"/>
```

Welcome to Validation Checking



- 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%"/> TITLE AUTHOR ISBN PUBLISHER EDITION PRICE <xsl:for-each select="bookdetails/books"> <xsl:value-of select="title"/> <xsl:value-of select="author"/> <xsl:value-of select="isbn"/> <xsl:value-of select="publisher"/>

OUTPUT:

</xsl:for-each>

</r></xsl:stylesheet>a

<xsl:value-of select="edition"/> <xsl:value-of select="price"/>

</body></html></xsl:template>

k.xml

d | Search...

Book Details

| TITLE | AUTHOR | ISBN | PUBLISHER | EDITION | PRICE |
|-------|--------------------|--------|-------------|------------|---------|
| С | 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 |