

ICT-21840

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Lab Sheet 2 – DTD & XML Schema

ITC 3013 - Service Oriented Architecture & Web Services

Exercise 1

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<persons>
```

```
  <person>
```

```
    <personID>1</personID>
```

```
    <personName>
```

```
      <personFname>Reshan</personFname>
```

```
      <personLname>Gayantha</personLname>
```

```
    </personName>
```

```
    <gender>Male</gender>
```

```
    <dateOfBirth>
```

```
      <year>2001</year>
```

```
      <month>02</month>
```

```
      <date>13</date>
```

```
    </dateOfBirth>
```

```
  </person>
```

```
</persons>
```

Exercise 2

```
<?xml version="1.0" encoding="UTF-8"?>

<!DOCTYPE addressbook [

  <!ELEMENT addressbook (contact+)>

  <!ELEMENT contact (name, email, phone)>

  <!ELEMENT name (#PCDATA)>

  <!ELEMENT email (#PCDATA)>

  <!ELEMENT phone (#PCDATA)>

]>

<addressbook>

  <contact>

    <name>John Doe</name>

    <email>john@example.com</email>

    <phone>123-456-7890</phone>

  </contact>

</addressbook>
```

Exercise 3

```
<?xml version="1.0" encoding="UTF-8"?>

<!DOCTYPE library [

  <!ELEMENT library (book+)>

  <!ELEMENT book (title, author, year)>

  <!ELEMENT title (#PCDATA)>

  <!ELEMENT author (#PCDATA)>

  <!ELEMENT year (#PCDATA)>

]>

<library>

  <book>

    <title>Harry Potter and the Sorcerer's Stone</title>

    <author>J.K. Rowling</author>

    <year>1997</year>

  </book>

</library>
```

Exercise 4

recipes.dtd

<!ELEMENT recipes (recipe+)>

<!ELEMENT recipe (title, ingredients, instructions)>

<!ELEMENT title (#PCDATA)>

<!ELEMENT ingredients (#PCDATA)>

<!ELEMENT instructions (#PCDATA)>

<?xml version="1.0" encoding="UTF-8"?>

<!DOCTYPE recipes SYSTEM "recipes.dtd">

<recipes>

 <recipe>

 <title>Chocolate Chip Cookies</title>

 <ingredients>Flour, sugar, chocolate chips, butter</ingredients>

 <instructions>Preheat oven...</instructions>

 </recipe>

</recipes>

Exercise 5

products.dtd

<!ELEMENT products (product+)>

<!ELEMENT product (name, price)>

<!ATTLIST product id ID #REQUIRED>

<!ELEMENT name (#PCDATA)>

<!ELEMENT price (#PCDATA)>

<?xml version="1.0" encoding="UTF-8"?>

<!DOCTYPE products SYSTEM "products.dtd">

<products>

 <product id="p001">

 <name>Laptop</name>

 <price>\$999</price>

 </product>

</products>