Q1: Write XSD document for the following XML document

<?xml version="1.0"?>

<wml>

<template>

<do name="main\_menu" type="accept" label="Chapters">

<go href="chapters"/>

</do>

<do name="menu\_1" type="accept" label="Chapter 1">

<go href="#chapter1"/>

</do>

<do name="menu\_2" type="accept" label="Chapter 2">

<go href="#chapter2"/>

</do>

<do name="menu\_3" type="accept" label="Chapter 3">

<go href="#chapter3"/>

</do>

<do name="menu\_4" type="accept" label="Chapter 4">

<go href="#chapter4"/>

</do>

</template>

<card id="chapters" title="WML Tutorial">

<p>

Select One Chapter:<br/>

<anchor>

<go href="#chapter1"/>

Chapter 1: WML Overview

</anchor><br />

<anchor>

<go href="#chapter2"/>

Chapter 2: WML Environment

</anchor><br />

<anchor>

<go href="#chapter3"/>

Chapter 3: WML Syntax

</anchor><br />

<anchor>

<go href="#chapter4"/>

Chapter 4: WML Elements

</anchor><br />

</p>

</card>

<card id="chapter1" title="WML Tutorial Ch1">

Chapter 1: WML Introduction

</card>

</wml>

SOLUTION:

<xs:element name="wml">

<xs:complexType>

<xs:sequence>

<xs:element name="template">

<xs:complexType>

<xs:sequence>

<xs:element name="do" maxOccurs="unbounded" minOccurs="0">

<xs:complexType>

<xs:sequence>

<xs:element name="go">

<xs:complexType>

<xs:simpleContent>

<xs:extension base="xs:string">

<xs:attribute type="xs:string" name="href" use="optional"/>

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

</xs:sequence>

<xs:attribute type="xs:string" name="name" use="optional"/>

<xs:attribute type="xs:string" name="type" use="optional"/>

<xs:attribute type="xs:string" name="label" use="optional"/>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

<xs:element name="card" maxOccurs="unbounded" minOccurs="0">

<xs:complexType mixed="true">

<xs:sequence>

<xs:element name="p" minOccurs="0">

<xs:complexType mixed="true">

<xs:choice maxOccurs="unbounded" minOccurs="0">

<xs:element type="xs:string" name="br"/>

<xs:element name="anchor">

<xs:complexType mixed="true">

<xs:sequence>

<xs:element name="go" minOccurs="0">

<xs:complexType>

<xs:simpleContent>

<xs:extension base="xs:string">

<xs:attribute type="xs:string" name="href"/>

</xs:extension>

</xs:simpleContent>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

</xs:choice>

</xs:complexType>

</xs:element>

</xs:sequence>

<xs:attribute type="xs:string" name="id" use="optional"/>

<xs:attribute type="xs:string" name="title" use="optional"/>

</xs:complexType>

</xs:element>

</xs:sequence>

</xs:complexType>

</xs:element>

</xs:schema>