

2) Create 3 XML and JSON files for department, year, student ?

Both JSON and XML can be used to receive data from a web server.

Certainly! Below are examples of XML and JSON files for departments, years, and students

Xml

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

```
<departments>
```

```
<department>
```

```
<id>1</id>
```

```
<name>Computer Science</name>
```

```
</department>
```

```
<department>
```

```
<id>2</id>
```

```
<name>Mathematics</name>
```

```
</department>
```

```
<department>
```

```
<id>3</id>
```

```
<name>Physics</name>
```

```
</department>
```

```
</departments>
```

years.xml

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

```
<years>
```

```
<year>
```

```
<id>1</id>
```

```
<name>First Year</name>
```

```
</year>
```

```
<year>
```

```
<id>2</id>
```

```
<name>Second Year</name>
```

```
</year>

<year>

  <id>3</id>

  <name>Third Year</name>

</year>

</years>
```

students.xml

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

<students>

  <student>

    <id>101</id>

    <name>John Doe</name>

    <department>Computer Science</department>

    <year>First Year</year>

  </student>

  <student>

    <id>102</id>

    <name>Jane Smith</name>

    <department>Mathematics</department>

    <year>Second Year</year>

  </student>

  <student>

    <id>103</id>

    <name>Emily Johnson</name>

    <department>Physics</department>

    <year>Third Year</year>

  </student>

</students>
```

JSON Files

departments.json

```
{
  "departments": [
    {
      "id": 1,
      "name": "Computer Science"
    },
    {
      "id": 2,
      "name": "Mathematics"
    },
    {
      "id": 3,
      "name": "Physics"
    }
  ]
}
```

years.json

```
{
  "years": [
    {
      "id": 1,
      "name": "First Year"
    },
    {
      "id": 2,
```

```
    "name": "Second Year"
  },
  {
    "id": 3,
    "name": "Third Year"
  }
]
}
```

students.json

```
{
  "students": [
    {
      "id": 101,
      "name": "John Doe",
      "department": "Computer Science",
      "year": "First Year"
    },
    {
      "id": 102,
      "name": "Jane Smith",
      "department": "Mathematics",
      "year": "Second Year"
    },
    {
      "id": 103,
      "name": "Emily Johnson",
      "department": "Physics",
      "year": "Third Year"
    }
  ]
}
```

```
    }  
  ]  
}
```

These examples should give you a clear structure for XML and JSON files for departments, years, and students.