



Her kommer koderne... Det der står skrevet med fed er ændret af grp. 2.121

Filen ex_e.xml

```
<?xml version="1.0" ?>
```

```
<!-- Det har vi indsat -->
```

```
<?xml-stylesheet type="text/xsl" href="ex_e.xslt"?>
```

```
<Project>
```

```
<ProjectName>Semester 7, 2001</ProjectName>
```

```
<Site>
```

```
<SiteName>Harbour dwelling area, Aalborg</SiteName>
```

```
<Building>
```

```
<BuildingId>Building 1</BuildingId>
```

```
<Storey>
```

```
<StoreyLevel>level 4</StoreyLevel>
```

```
<Space SpaceType="room" SpaceFloorArea="999">
```

```
<usage>Stue</usage>
```

```
</Space>
<Space SpaceType="kitchen" SpaceFloorArea="25">
  <usage>open kitchen</usage>
</Space>
</Storey>
```

```
<Storey>
  <StoreyLevel>level 3</StoreyLevel>
  <Space SpaceType="room" SpaceFloorArea="38">
    <usage>living room</usage>
  </Space>
  <Space SpaceType="kitchen" SpaceFloorArea="25">
    <usage>open kitchen</usage>
  </Space>
  <Space SpaceType="room" SpaceFloorArea="18">
    <usage>sleeping</usage>
  </Space>
  <Space SpaceType="communication" SpaceFloorArea="18">
    <usage>entrance hall</usage>
  </Space>
  <Space SpaceType="hygien" SpaceFloorArea="8">
    <usage>guest toilet</usage>
  </Space>
</Storey>
```

```
<Storey>
  <StoreyLevel>level 2</StoreyLevel>
  <Space SpaceType="room" SpaceFloorArea="60">
    <usage>home office</usage>
  </Space>
  <Space SpaceType="room" SpaceFloorArea="18">
    <usage>sleeping</usage>
  </Space>
  <Space SpaceType="room" SpaceFloorArea="38">
    <usage>sleeping</usage>
  </Space>
  <Space SpaceType="communication" SpaceFloorArea="12">
    <usage>hall</usage>
  </Space>
  <Space SpaceType="hygien" SpaceFloorArea="6">
    <usage>toilet with bath</usage>
  </Space>
</Storey>
</Building>
<Building>
  <BuildingId>Building 2</BuildingId>
```

<Storey>

```
<StoreyLevel>level 1</StoreyLevel>
<Space SpaceType="room" SpaceFloorArea="38">
  <usage>living room</usage>
</Space>
<Space SpaceType="kitchen" SpaceFloorArea="25">
  <usage>open kitchen</usage>
</Space>
<Space SpaceType="room" SpaceFloorArea="18">
  <usage>sleeping</usage>
</Space>
<Space SpaceType="communication" SpaceFloorArea="18">
  <usage>entrance hall</usage>
</Space>
<Space SpaceType="hygien" SpaceFloorArea="8">
  <usage>guest toilet</usage>
</Space>
</Storey>
<Storey>
  <StoreyLevel>level 2</StoreyLevel>
  <Space SpaceType="room" SpaceFloorArea="60">
    <usage>home office</usage>
  </Space>
  <Space SpaceType="room" SpaceFloorArea="18">
    <usage>sleeping</usage>
  </Space>
  <Space SpaceType="room" SpaceFloorArea="38">
    <usage>sleeping</usage>
  </Space>
  <Space SpaceType="communication" SpaceFloorArea="12">
    <usage>hall</usage>
  </Space>
  <Space SpaceType="hygien" SpaceFloorArea="6">
    <usage>toilet with bath</usage>
  </Space>
</Storey>
</Building>
</Site>
</Project>
```

Filen ex_e.xslt

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

```

<xsl:stylesheet version="2.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:fn="http://www.w3.org/2004/07/xpath-
functions" xmlns:xdt="http://www.w3.org/2004/07/xpath-datatypes">
  <xsl:output version="1.0" encoding="UTF-8" indent="no" omit-xml-declaration="no" media-
type="text/html" />
  <xsl:template match="/">
  <html>
  <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
  <head>
  <title />
  </head>
  <body>
  <xsl:for-each select="Project">
  <xsl:for-each select="ProjectName">
  <span style="color:green; font-size:x-large;">
  <xsl:apply-templates />
  </span>
  </xsl:for-each>
  </xsl:for-each>
  <br />
  <xsl:for-each select="Project">
  <xsl:for-each select="Site">
  <xsl:for-each select="SiteName">
  <span style="font-size:larger; font-style:italic;">
  <xsl:apply-templates />
  </span>
  </xsl:for-each>
  </xsl:for-each>
  </xsl:for-each>
  <br />
  <xsl:for-each select="Project">
  <xsl:for-each select="Site">
  <xsl:for-each select="Building">
  <xsl:for-each select="BuildingId">
  <p>
  <span style="color:orange; font-style:normal; font-weight:bold; text-decoration:underline; text-
transform:uppercase;">
  <xsl:apply-templates />
  </span>
  </p>
  </xsl:for-each>
  <xsl:for-each select="Storey">
  <xsl:for-each select="StoreyLevel">
  <p>
  <span style="font-weight:bolder; text-transform:capitalize;">
  <xsl:apply-templates />
  </span>
  </p>

```

```

</xsl:for-each>
<table border="10">
<thead>
<tr>
<td>
<span style="color:purple; font-weight:bold;">SpaceType</span>
</td>
<td>
<span style="color:purple; font-weight:bold;">SpaceFloorArea</span>
</td>
<td>
<span style="color:purple; font-weight:bold;">Usage</span>
</td>
<td>
<span style="color:purple; font-weight:bold;">Ekstra</span>
</td>
</tr>
</thead>
<tbody>
<xsl:for-each select="Space">
<tr>
<td>
<xsl:for-each select="@SpaceType">
<span style="text-transform:capitalize;">
<xsl:value-of select="." />
</span>
</xsl:for-each>
</td>
<td align="center">
<xsl:for-each select="@SpaceFloorArea">
<span style="text-transform:capitalize;">
<xsl:value-of select="." />
</span>
</xsl:for-each>
</td>
<td>
<xsl:for-each select="usage">
<span style="text-transform:capitalize;">
<xsl:apply-templates />
</span>
</xsl:for-each>
</td>
</tr>
</xsl:for-each>
</tbody>
</table>
</xsl:for-each>
</xsl:for-each>

```

```

</xsl:for-each>
</xsl:for-each>
<br />
</body>
</html>
</xsl:template>
</xsl:stylesheet>

```

Ex_e.xsd

```

<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
- <xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified">
- <xs:complexType name="BuildingType">
- <xs:sequence>
  <xs:element ref="BuildingId" />
  <xs:element name="Storey" type="StoreyType" maxOccurs="unbounded" />
</xs:sequence>
</xs:complexType>
<xs:element name="BuildingId" type="xs:string" />
- <xs:element name="Project">
- <xs:complexType>
- <xs:sequence>
  <xs:element ref="ProjectName" />
  <xs:element name="Site" type="SiteType" />
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="ProjectName" type="xs:string" />
- <xs:complexType name="SiteType">
- <xs:sequence>
  <xs:element ref="SiteName" />
  <xs:element name="Building" type="BuildingType" maxOccurs="unbounded" />
</xs:sequence>
</xs:complexType>
<xs:element name="SiteName" type="xs:string" />
- <xs:complexType name="SpaceType">
- <xs:sequence>
  <xs:element ref="usage" />
</xs:sequence>
- <xs:attribute name="SpaceType" use="required">
- <xs:simpleType>
- <xs:restriction base="xs:string">
  <xs:enumeration value="entrence" />
  <xs:enumeration value="hygien" />
  <xs:enumeration value="kitchen" />

```

```
<xs:enumeration value="room" />
</xs:restriction>
</xs:simpleType>
</xs:attribute>
- <xs:attribute name="SpaceFloorArea" use="required">
- <xs:simpleType>
  <xs:restriction base="xs:integer" />
</xs:simpleType>
</xs:attribute>
</xs:complexType>
- <xs:complexType name="StoreyType">
- <xs:sequence>
  <xs:element ref="StoreyLevel" />
  <xs:element name="Space" type="SpaceType" maxOccurs="2" />
</xs:sequence>
</xs:complexType>
<xs:element name="StoreyLevel" type="xs:string" />
<xs:element name="usage" type="xs:string" />
</xs:schema>
```