

Видеотека

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Описание на задачата

- Задачата има за цел да създаде начин, по който да си съхраняваме дисковете с филми. Проекта ще представлява структура на една видеотека. За всеки филм ще се пази име, жанр, директор, студио, дата на излизане, език, тип диск и субтитри

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Реализация

- Реализацията представлява XML файл по следната схема

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

  <!ELEMENT video_library (movie*)>
  <!ELEMENT movie (id, title, genre, director, studio, release-date, disc, language, subtitles)>
  <!ELEMENT id (#PCDATA)>
  <!ELEMENT title (#PCDATA)>
  <!ELEMENT genre (#PCDATA)>
  <!ELEMENT director (first-name, last-name, age, nationality)>
  <!ELEMENT first-name (#PCDATA)>
  <!ELEMENT last-name (#PCDATA)>
  <!ELEMENT age (#PCDATA)>
  <!ELEMENT nationality (#PCDATA)>
  <!ELEMENT studio (studio-name, location, website, networth)>
  <!ELEMENT studio-name (#PCDATA)>
  <!ELEMENT location (country, city)>
  <!ELEMENT country (#PCDATA)>
  <!ELEMENT city (#PCDATA)>
  <!ELEMENT website (#PCDATA)>
  <!ELEMENT networth (#PCDATA)>
  <!ELEMENT release-date (#PCDATA)>
  <!ELEMENT disc (#PCDATA)>
  <!ELEMENT language (#PCDATA)>
  <!ELEMENT subtitles (#PCDATA)>

  <!ATTLIST genre genres (ACTION | ADVENTURE | HORROR | COMEDY | SCI-FI | FANTASY | ROMANCE | DRAMA | MYSTERY | WESTERN | THRILLER | OTHER) #REQUIRED>
  <!ATTLIST disc cd-type (BLU-RAY | AVCHD | DVD_VIDEO | DATA-DISC) #REQUIRED>
  <!ATTLIST title abbreviation CDATA #REQUIRED>
  <!ATTLIST language language-abbreviation CDATA #REQUIRED>
  <!ATTLIST subtitles subtitle-type (SSA | SRT | SBV | VTT) #REQUIRED>
```

Примерен файл

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE video_library SYSTEM "video-library.dtd">
- <video_library>
  - <movie>
    <id>2</id>
    <title abbreviation="СК">Сам вкъщи</title>
    <genre genres="COMEDY">КОМЕДИЯ</genre>
  - <director>
    <first-name>Крис</first-name>
    <last-name>Кълъмбъс</last-name>
    <age>64</age>
    <nationality>Американец</nationality>
  </director>
  - <studio>
    <studio-name>Хюз Енъртеймънт</studio-name>
    - <location>
      <country>Америка</country>
      <city>Бурбанк</city>
    </location>
    <website>-</website>
    <networth>100 000 000</networth>
  </studio>
    <release-date>10 Ноември 1990</release-date>
    <disc cd-type="AVCHD">disc</disc>
    <language language-abbreviation="АЕ">Английски</language>
    <subtitles subtitle-type="SSA">Да</subtitles>
  </movie>
</video_library>
```

Видове трансформации

1.XML към HTML

2.XML към Text

3.XML към XML

XML към HTML

```
<?xml version="1.0" encoding="UTF-8"?>
- <xsl:stylesheet version="2.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:output indent="yes" encoding="UTF-8" method="html"/>
  - <xsl:template match="/">
    - <html>
      - <body>
        <h1>Филм</h1>
        - <table border="3">
          - <tr>
            <th>Заглавие</th>
            <th>Директор</th>
            <th>Студио</th>
          </tr>
          - <xsl:for-each select="video_library/movie">
            - <tr>
              - <td>
                <xsl:value-of select="title/."/>
              </td>
              - <td>
                <xsl:value-of select="director/first-name/."/>
                <xsl:value-of select="director/last-name/."/>
              </td>
              - <td>
                <xsl:value-of select="studio/studio-name/."/>
              </td>
            </tr>
          </xsl:for-each>
        </table>
      </body>
    </html>
  </xsl:template>
</xsl:stylesheet>
```

XML към Text

```
<?xml version="1.0"?>
- <xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">
  <xsl:output method="text"/>
  - <xsl:template match="/">
    - <xsl:for-each select="/video_library/movie">
      Име на филма:
      <xsl:value-of select="title/."/>
      Първо име на директора:
      <xsl:value-of select="director/first-name/."/>
      Фамилия на директора:
      <xsl:value-of select="director/last-name/."/>
      Студио:
      <xsl:value-of select="studio/studio-name/."/>
      Сайт на студиото:
      <xsl:value-of select="studio/website/."/>
    </xsl:for-each>
  </xsl:template>
</xsl:stylesheet>
```


XМL към XML

```
<?xml version="1.0" encoding="UTF-8"?>
- <xsl:stylesheet version="2.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:output indent="yes" encoding="UTF-8" method="xml"/>
  - <xsl:template match="/">
    - <movie-disks>
      - <xsl:for-each select="video_library/movie">
        - <movie-disk>
          - <title>
            <xsl:value-of select="title/."/>
          </title>
          - <studio>
            <xsl:value-of select="studio/studio-name/."/>
          </studio>
          - <disk-type>
            <xsl:value-of select="disc/@cd-type"/>
          </disk-type>
        </movie-disk>
      </xsl:for-each>
    </movie-disks>
  </xsl:template>
</xsl:stylesheet>
```

**Благодаря за
вниманието**