Solution Exercise 4

XML-Document #1:

<?xml version="1.0" encoding="UTF-8"?>
<root xmlns:n1="test://mähdrescher" xmlns:n2="test://m%E4hdrescher"
xmlns:n3="test:opaque_uri#">
<n1:child n3:attr="attributwert" attr="attributwert" n1:attr="noch_ein_wert"></n1:child>
<n2:child n3:attr="Hallo" n2:attr="Welt"></n2:child>
<n3:child attr="Test"></n3:child>
</root>

No Conflict, No Default Namespace
test://mähdrescher - n1:attr, n1:child
test://m%E4hdrescher - n2:attr, n2:child
test:opaque_uri#- n3:child, n3:attr
No Namespace - attr,

The two URIs are treated as strings, and they are **identical** if and only if the strings are identical, that is, if they are the same sequence of characters.

A consequence of this is that URI references which are not identical in this sense may resolve to the same resource.

Examples:

The URI references below are all different for the purposes of identifying namespaces, since they differ in case:

- `http://www.example.org/wine`
- `http://www.Example.org/wine`
- `http://www.example.org/Wine`

The URI references below are also all different for the purposes of identifying namespaces:

- `http://www.example.org/~wilbur`
- `http://www.example.org/%7ewilbur`
- `http://www.example.org/%7Ewilbur`

XML-Document #2:

```
<?xml version="1.0" encoding="UTF-8"?>
<root xmlns:n1="test://mähdrescher" xmlns:n2="test://mähdrescher"
xmlns:n3="test:opaque_uri#">
<n1:child n3:attr="attributwert" n2:attr="attributwert" n1:attr="noch_ein_wert"></n1:child>
<n2:child n1:attr="Hallo," attr="schöne" n2:attr="Welt"></n2:child>
<child attr="Test"></child>
</root>
```

No Default NS
test://mähdrescher - n1:attr, n2:child, n1:child, n2:attr
test:opaque_uri# - n3:attr

No NS – attr, child(No default NS)

Conflict: n1:attr="noch_ein_wert" and n2:attr="attributwert" map to the same NS, also have same attribute
name. This is not allowed.

XML-Document #3

```
<?xml version="1.0" encoding="UTF-8"?>
<root xmlns="test://mähdrescher" xmlns:n1="test://mähdrescher" xmlns:n2="test://mähdrescher"
xmlns:n3="test:opaque_uri#">
<n1:child n3:attr="attributwert" attr="attributwert" ></n1:child>
<n2:child n3:attr="Hallo" n2:attr="Welt"></n2:child>
<n3:child attr="Test" n3:attr="1, 2, 3!"></n3:child>
<child n2:attr="1, 2, 3!" attr="Test"></child>
</root>
```

No Conflict, Default NS: test://mähdrescher, mapped to root
test://mähdrescher - n2:child, n1:child, n2:attr, child
test:opaque_uri# - n3:child, n3:attr
No NS - attr

XML-Document#4

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

<html:html xmlns:html="http://www.w3.org/2002/06/xhtml2/"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://www.w3.org/2002/06/xhtml2/
    http://www.w3.org/MarkUp/SCHEMA/xhtml2.xsd"
    xmlns:xi="http://www.w3.org/2001/XInclude"
    xmlns="ismll://lectures/xml-swt/exercises/#ex3">

  <html:head>
  <html:title>Titelzeile</html:title>
  </html:head>

  <html:body>
  <xi:include href="namespace2.xml"/>
  <svg width="10cm" height="5cm" viewBox="0 0 1000 500"
   xmlns="http://www.w3.org/2000/svg" version="1.1">
  <rect x="200" y="100" width="600" height="300"
   fill="red" stroke="blue" stroke-width="3"/>
  </svg>
  </html:body>
</html:html>
```

No Conflict, Default NS: ismll://lectures/xml-swt/exercises/#ex3
http://www.w3.org/2002/06/xhtml2/ - html, head, title, body
http://www.w3.org/2001/XMLSchema-instance -xsi:schemaLocation
http://www.w3.org/2001/XInclude - xi:include
http://www.w3.org/2000/svg mapped to svg - rect
No NS – width, height, viewBox, version, x, width, y, height, fill, troke