

Institute of Space Technology

Assignment of Compiler Construction (Assignment No.2)

Tittle: XML Parser/Parsing

Submitted by: Abdullah Ahmad 200901057

Submitted To:
Mam . Reeda Saeed

<u>Due Date:</u> 14-01-2023 <u>BSCS-01-B</u>

Question#01

In this assignment you are required to parse an xml file (provided in attachment) file using python or any language of your preference. The data to be extracted from file includes:

- 1. Book_Id
- 2. Author_Name
- 3. Title
- 4. Genre
- 5. Price
- 6. Publish_date
- 7. Description

After extracting the above information from the tags, you have to create an excel file to record the data in the following table format.

Book_id	Author_Name	Title	Genre	Price	Publish_date	Description
Bk101	Gambardella	Developer	Computer	44.95	2000-10-01	An in-depth
		guide				look at
						creating
						applications
						with XML

Solution:

```
Python Code At Backend:
import xml.etree.ElementTree as ET

mytree=ET.parse('compiler.xml')
myroot=mytree.getroot()
print(myroot)
for element in myroot.findall("book"):
    print('______')
    print(element.tag, element.attrib)
    for child in element:
        print(child.tag , '=>', child.text)
```

Output (Python File):

```
book ('id': 'bkiel')
author ⇒ Gambardella, Matthew
title ⇒ NAD, Developer's Guide
genre ⇒ Computer
price ⇒ ALD, Developer's Guide
genre ⇒ Computer
with NAL.

book ('id': 'bkiel')
author ⇒ Ralls, Kim
title ⇒ Nidnight Bain
genre ⇒ Fantasy
price ⇒ 5.95
publish date ⇒ 2000-12-16
description ⇒ A former architect battles corporate zombies,
an evil sorceress, and her own childhood to become queen
of the worlds.

book ('id': 'bkiel')
author ⇒ Corets, Eva
title ⇒ Naceve Ascendant
genre ⇒ Fantasy
price ⇒ 5.95
publish date ⇒ 2000-11-17
description ⇒ After the collapse of a nanotechnology
society in regland, the young survivors lay the
foundation for a new society.

book ('id': 'bkiel')
author ⇒ Corets, Eva
title ⇒ Oberon's Legacy
genre ⇒ Fantasy
price ⇒ 5.95
publish date ⇒ 2000-11-17
description ⇒ After the collapse of a nanotechnology
society in regland, the young survivors lay the
foundation for a new society.

book ('id': 'bkiel')
author ⇒ Corets, Eva
title ⇒ Oberon's Legacy
genre ⇒ Fantasy
price ⇒ 5.95
publish date ⇒ 2000-3-10
description ⇒ In post-accolypse England, the mysterious
description ⇒ Corets, Eva
title ⇒ Nhe Sundered Grail
genre ⇒ Fantasy
```

```
FROMENS OUTPUT DEBUGCONSCIE TEMMAN.

title > The sundered Grail
genre > Fantasy
price > 5.95
publish date >> 2001-09-10
description >> The two daughters of Maeve, half-sisters,
battle one another for control of England. Sequel to
Oberon's Legacy.

book ('id': 'btage')
author >> Randall, cynthia
title >> Lover Birds
genre >> Romance
price >> 4.95
publish date >> 2000-09-02
description >> When Carla meets Paul at an ornithology
conference, tempers fly as feathers get ruffled.

book ('id': 'btage')
author >> Thurman, Paula
title >> Somence
price >> 4.95
publish date >> 2000-10-0
description >> A deep soa diver finds true love twenty

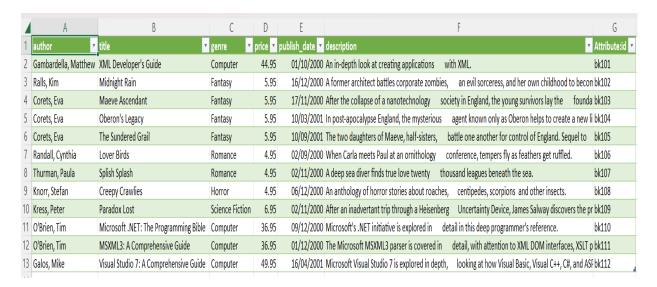
thousand leagues beneath the sea.

book ('id': 'btage')
author >> Knorr, Stefan
title >> Certipedes >> Horror
price >> 4.95
publish date >> 2000-12-06
description >> A meet should be should be searched by searched be searched by searched be searched by se
```

```
Dook {'id': 'bk110'}
author => 0'Brien, Tim
title => Microsoft .NET: The Programming Bible
SAX and more.

Dook {'id': 'bk112'}
author => 6alos, Mike
title => Visual Studio 7: A Comprehensive Guide
genre => Computer
price => 49.95
publish date => 2001-04-16
description => Microsoft Visual Studio 7 is explored in depth,
looking at how Visual Basic, Visual C++, C#, and ASP+ are
integrated into a comprehensive development
environment.
```

Output (Excel File):



Github Link:

https://github.com/abdullahmad12/XML-Parser