# TUGAS PEMROGRAMAN IF 2124 TEORI BAHASA FORMAL DAN OTOMATA HTML CHECKER dengan PDA

#### DISUSUN OLEH:

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# **BAB I**

# Deskripsi Masalah

HTML (Hypertext Markup Language) adalah bahasa markup yang digunakan untuk membuat struktur dan tampilan konten web. HTML adalah salah satu bahasa utama yang digunakan dalam pengembangan web dan digunakan untuk menggambarkan bagaimana elemen-elemen konten, seperti teks, gambar, tautan, dan media, akan ditampilkan di browser web. Setiap dokumen HTML dimulai dengan elemen <a href="html">html</a>, lalu diikuti dengan <a href="head">head</a> (untuk metadata dan tautan ke file eksternal) dan <a href="html">html</a>, lalu diikuti dengan <a href="head">head</a> (untuk metadata dan tautan ke file eksternal)

HTML menggunakan elemen-elemen (*tags*) untuk mengelompokkan dan mengatur konten. Contohnya, digunakan untuk paragraf teks, <h1> hingga <h6> digunakan untuk judul, <a> untuk tautan, <img> untuk gambar, dan sebagainya. Elemen HTML sering memiliki atribut yang memberikan informasi tambahan tentang elemen tersebut. Contohnya adalah atribut src untuk gambar, href untuk tautan, dan class untuk memberikan elemen kelas CSS.

Sama seperti bahasa pada umumnya, HTML juga memiliki sintaks tersendiri dalam penulisannya yang dapat menimbulkan error jika tidak dipenuhi. Meskipun web browser modern seperti Chrome dan Firefox cenderung tidak menghiraukan error pada HTML memastikan bahwa HTML benar dan terbentuk dengan baik masih penting untuk beberapa alasan seperti *Search Engine Optimization (SEO)*, aksesibilitas, *maintenance* yang lebih baik, kecepatan render, dan profesionalisme.

Dibutuhkan sebuah program pendeteksi *error* untuk HTML. Oleh sebab itu, implementasikan sebuah program yang dapat memeriksa kebenaran HTML dari segi nama *tag* yang digunakan serta *attribute* yang dimilikinya. Pada tugas pemrograman ini, gunakanlah konsep Pushdown Automata (PDA) dalam mencapai hal tersebut yang diimplementasikan dalam bahasa Python.

#### **BABII**

# Landasan Teori

#### 2.1. HTML

HyperText Markup Language, atau HTML, adalah komponen fundamental dari World Wide Web. Ini menetapkan struktur dan makna konten web. Presentasi dan fungsionalitas halaman web biasanya dijelaskan oleh teknologi lain selain HTML. (CSS, JavaScript).

Tautan yang menghubungkan halaman web bersama-sama, baik dalam satu situs web atau di antara situs web, disebut sebagai "hipertekst". Salah satu komponen penting dari web adalah link. Anda dapat berpartisipasi aktif di World Wide Web dengan menerbitkan konten online dan membuat tautan ke halaman orang lain.

"Tags" yang mengelilingi nama elemen HTML dengan "<" dan ">" berfungsi untuk membedakannya dari teks lain di halaman. Nama elemen dalam tag tidak terpengaruh oleh kapitalisasi. Artinya, dapat ditulis dalam kombinasi huruf rendah dan huruf besar. Tag <title>, misalnya, dapat dinyatakan sebagai <Title>, <TITLE>, atau kombinasi karakter lainnya. Namun demikian, menulis tag dalam lowercase adalah prosedur standar dan disarankan.

#### 2.2. Push Down Automata (PDA)

Pekerjaan teoritis pada komputasi mesin menggunakan pushdown automata. Mereka tidak begitu kuat seperti mesin Turing, tetapi mereka masih lebih kuat daripada komputer-komputer yang terbatas. Sementara non-deterministic pushdown automata dapat mengenali setiap bahasa bebas konteks, otomatis deterministik sering digunakan dalam desain parser karena mereka bisa mengenali bahasa bebas kontekstual.

PDA secara formal didefinisikan sebagai 7-tuple dengan aturan sebagai berikut:

$$M=(Q,\Sigma,\Gamma,\delta,q_0,Z,F)$$
 where

- Q is a finite set of states
- $\bullet$   $\Sigma$  is a finite set which is called the *input alphabet*
- ullet  $\Gamma$  is a finite set which is called the *stack alphabet*
- ullet  $\delta$  is a finite subset of  $Q imes (\Sigma\cup\{arepsilon\}) imes \Gamma imes Q imes \Gamma^*$ , the transition relation
- $ullet q_0 \in Q$  is the start state
- ullet  $Z\in\Gamma$  is the *initial stack symbol*
- ullet  $F\subseteq Q$  is the set of accepting states

 $\delta$  adalah sebuah fungsi atau rule yang digunakan untuk menentukan perpindahan state dan flow dari PDA sesuai dengan parameter input.

#### 2.3. Pengaplikasian PDA pada syntax HTML

Push Down Automata dapat diaplikasikan untuk membaca syntax HTML dan menyatakan apakah syntax yang sedang dibaca tersebut benar atau tidak. Dalam hal ini tupel PDA akan memiliki komponen sebagai berikut:

- Q berisi seluruh state yang dimiliki berdasarkan rules PDA.

- $\Sigma$  berisi seluruh kemungkinan input, yang pada kasus syntax HTML berisi pembuka tag HTML seperti <head, <body, dan penutup seperti >.
- $\Gamma$  berisi seluruh elemen stack
- $\delta$  berisi seluruh rules PDA yang ditetapkan.
- q<sub>o</sub> adalah state awal

Dengan PDA tersebut dapat dihasilkan sebuah

### **BAB III**

# **Hasil PDA**

#### 3.1. Total States

ATTRIBUTE HEAD BODY CONTENT HTML HTMLH HTMLHB START FINISH TABLE ERROR

#### 3.2. Input Word Symbols

id="" class="" style="" href="" rel="" src="" alt=""
type="submit" type="reset" type="button" type="text"
type="password" type="email" type="number" type="checkbox"
action="" method="GET" method="POST" <!----> X <title </title>
<script </script> <link <br <em </em> <b </b> <abbr </abbr>
<strong </strong> <small </small> <hr <div </div> <a </a> <h1
</h1> <h2 </h2> <h3 </h3> <h4 </h4> <h5 </h5> <h6 </h6> 
<img <button </button> <form </form> <input <table </table>

### 3.3. Stack Symbols

<X> </linkH> </linkB> </validLinkH> </validLinkB> </a> </img> </scriptH> </scriptB> </validImg> </button> </input> </form> </comment> </body> </head> </title> </br > </bb> </abbrB> </strongB> </smallB> </hrB> </div> </h1> </h2> </h3> </h4> </h5> </h6> </typeButton> </methodForm> </typeInput> </br> </br> </br> </br> </br> </br> </br>

### 3.4. Starting State

START

#### 3.5. Starting Stack

<Z>

# 3.6. Accepting States

FINISH

### 3.7. List of Productions

```
d(ATRIBUT, id="", <X>) = (ATRIBUT, <X>)
d(ATRIBUT, class="", <X>) = (ATRIBUT, <X)
d(ATRIBUT, style="", <X>) = (ATRIBUT, <X>)
d(ATRIBUT, href="", </linkH>) = (ATRIBUT, </linkH>)
```

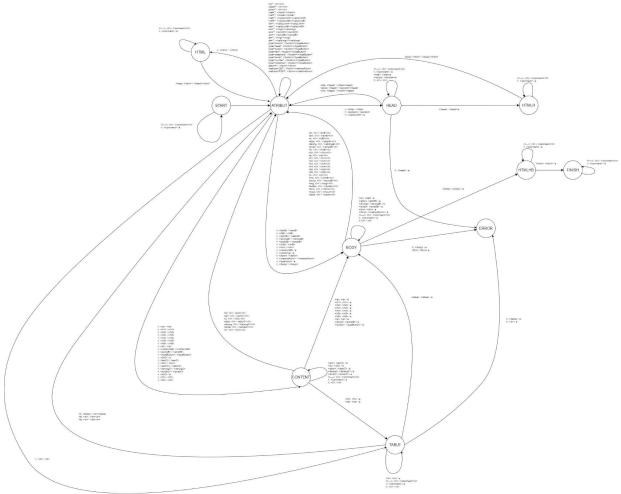
```
d(ATRIBUT, href="", </linkB>) = (ATRIBUT, </linkB>)
d(ATRIBUT, href="", </validLinkH>) = (ATRIBUT, </val</pre>
d(ATRIBUT, href="", </validLinkH>) = (ATRIBUT, </validLinkH>)
d(ATRIBUT, href="", </validLinkB>) = (ATRIBUT, </validLinkB>)
d(ATRIBUT, href="", </a>) = (ATRIBUT, </a>)
d(ATRIBUT, rel="", </linkH>) = (ATRIBUT, </validLinkH>)
d(ATRIBUT, rel="", </linkH>) = (ATRIBUT, </validLinkH>)
d(ATRIBUT, rel="", </linkB>) = (ATRIBUT, </validLinkB>)
d(ATRIBUT, src="", </img>) = (ATRIBUT, </validImg>)
d(ATRIBUT, src="", </scriptH>) = (ATRIBUT, </scriptH>)
d(ATRIBUT, src="", </scriptB>) = (ATRIBUT, </scriptB>)
d(ATRIBUT, alt="", </img>) = (ATRIBUT, </img>)
d(ATRIBUT, alt="", </validImg>) = (ATRIBUT, </validImg>)
d(ATRIBUT, type="submit", </button>) = (ATRIBUT, </typeButton>)
d(ATRIBUT, type="reset", </button>) = (ATRIBUT, </typeButton>)
d(ATRIBUT, type="button", </button>) = (ATRIBUT, </typeButton>)
d(ATRIBUT, type="text", </input>) = (ATRIBUT, </typeInput>)
d(ATRIBUT, type="password", </input>) = (ATRIBUT, </typeInput>)
d(ATRIBUT, type="email", </input>) = (ATRIBUT, </typeInput>)
d(ATRIBUT, type="number", </input>) = (ATRIBUT, </typeInput>)
d(ATRIBUT, type="checkbox", </input>) = (ATRIBUT, </typeInput>)
d(ATRIBUT, action="", </form>) = (ATRIBUT, </form>)
d(ATRIBUT, method="GET", </form>) = (ATRIBUT, </methodForm>)
d(ATRIBUT, method="POST", </form>) = (ATRIBUT, </methodForm>)
d(HEAD, \langle !---, \langle X \rangle) = (HEAD, \langle comment \rangle \langle X \rangle)
d(HEAD, >, </comment>) = (HEAD, e)
d(BODY, \langle !---, \langle X \rangle) = (BODY, \langle comment \rangle \langle X \rangle)
d(BODY, >, </comment>) = (BODY, e)
d(CONTENT, <!---, <X>) = (CONTENT, </comment><X>)
d(CONTENT, >, </comment>) = (CONTENT, e)
d(HTML, \langle !---, \langle X \rangle) = (HTML, \langle /comment \rangle \langle X \rangle)
d(HTML, >, </comment>) = (HTML, e)
d(HTMLH, \langle !---, \langle X \rangle) = (HTMLH, \langle /comment \rangle \langle X \rangle)
d(HTMLH, >, </comment>) = (HTMLH, e)
d(HTMLHB, <!---, <X>) = (HTMLHB, </comment><X>)
d(HTMLHB, >, </comment>) = (HTMLHB, e)
d(START, \langle !---, \langle X \rangle) = (START, \langle /comment \rangle \langle X \rangle)
d(START, >, </comment>) = (START, e)
d(FINISH, <!---, <X>) = (FINISH, </comment><X>)
d(FINISH, >, </comment>) = (FINISH, e)
d(TABLE, \langle !---, \langle X \rangle) = (TABLE, \langle /comment \rangle \langle X \rangle)
d(TABLE, >, </comment>) = (TABLE, e)
d(HEAD, X, \langle X \rangle) = (HEAD, \langle X \rangle)
d(BODY, X, \langle X \rangle) = (BODY, \langle X \rangle)
d(TABLE, X, \langle X \rangle) = (TABLE, \langle X \rangle)
d(CONTENT, X, \langle X \rangle) = (CONTENT, \langle X \rangle)
d(BODY, X, </body>) = (ERROR, e)
d(HEAD, X, </head>) = (ERROR, e)
```

```
d(TABLE, X, ) = (ERROR, e)
d(TABLE, X, ) = (ERROR, e)
d(HEAD, <title, </head>) = (ATRIBUT, </title></head>)
d(ATRIBUT, >, </title>) = (HEAD, </title>)
d(HEAD, </title>, </title>) = (HEAD, e)
d(HEAD, <script, </head>) = (ATRIBUT, </scriptH></head>)
d(ATRIBUT, >, </scriptH>) = (HEAD, </scriptH>)
d(HEAD, </script>, </scriptH>) = (HEAD, e)
d(HEAD, <link, </head>) = (ATRIBUT, </linkH></head>)
d(ATRIBUT, >, </validLinkH>) = (HEAD, e)
d(BODY, \langle br, \langle X \rangle) = (ATRIBUT, \langle brB \rangle \langle X \rangle)
d(ATRIBUT, >, </brb>) = (BODY, e)
d(BODY, \langle em, \langle X \rangle) = (ATRIBUT, \langle /emB \rangle \langle X \rangle)
d(ATRIBUT, >, </emB>) = (CONTENT, </emB>)
d(CONTENT, </em>, </emB>) = (BODY, e)
d(BODY, \langle b, \langle X \rangle) = (ATRIBUT, \langle bB \rangle \langle X \rangle)
d(ATRIBUT, >, </bB>) = (BODY, </bB>)
d(BODY, </b>, </bB>) = (BODY, e)
d(BODY, <abbr, <X>) = (ATRIBUT, </abbrB><X>)
d(ATRIBUT, >, </abbrB>) = (BODY, </abbrB>)
d(BODY, \langle abbr\rangle, \langle abbrB\rangle) = (BODY, e)
d(BODY, <strong, <X>) = (ATRIBUT, </strongB><X>)
d(ATRIBUT, >, </strongB>) = (BODY, </strongB>)
d(BODY, </strong>, </strongB>) = (BODY, e)
d(BODY, <small, <X>) = (ATRIBUT, </smallB><X>)
d(ATRIBUT, >, </smallB>) = (BODY, </smallB>)
d(BODY, </small>, </smallB>) = (BODY, e)
d(BODY, \langle hr, \langle X \rangle) = (ATRIBUT, \langle /hrB \rangle \langle X \rangle)
d(ATRIBUT, >, </hrb>) = (BODY, e)
d(BODY, \langle div, \langle X \rangle) = (ATRIBUT, \langle /div \rangle \langle X \rangle)
d(ATRIBUT, >, </div>) = (BODY, </div>)
d(BODY, </div>, </div>) = (BODY, e)
d(BODY, \langle a, \langle X \rangle) = (ATRIBUT, \langle /a \rangle \langle X \rangle)
d(ATRIBUT, >, </a>) = (CONTENT, </a>)
d(CONTENT, </a>, </a>) = (BODY, e)
d(BODY, \langle h1, \langle X \rangle) = (ATRIBUT, \langle /h1 \rangle \langle X \rangle)
d(ATRIBUT, >, </h1>) = (CONTENT, </h1>)
d(CONTENT, </h1>, </h1>) = (BODY, e)
d(BODY, \langle h2, \langle X \rangle) = (ATRIBUT, \langle /h2 \rangle \langle X \rangle)
d(ATRIBUT, >, </h2>) = (CONTENT, </h2>)
d(CONTENT, </h2>, </h2>) = (BODY, e)
d(BODY, \langle h3, \langle X \rangle) = (ATRIBUT, \langle /h3 \rangle \langle X \rangle)
d(ATRIBUT, >, </h3>) = (CONTENT, </h3>)
d(CONTENT, </h3>, </h3>) = (BODY, e)
d(BODY, < h4, < X>) = (ATRIBUT, < /h4>< X>)
d(ATRIBUT, >, </h4>) = (CONTENT, </h4>)
```

```
d(CONTENT, </h4>, </h4>) = (BODY, e)
d(BODY, \langle h5, \langle X \rangle) = (ATRIBUT, \langle /h5 \rangle \langle X \rangle)
d(ATRIBUT, >, </h5>) = (CONTENT, </h5>)
d(CONTENT, </h5>, </h5>) = (BODY, e)
d(BODY, < h6, < X>) = (ATRIBUT, < /h6>< X>)
d(ATRIBUT, >, </h6>) = (CONTENT, </h6>)
d(CONTENT, </h6>, </h6>) = (BODY, e)
d(BODY, \langle p, \langle X \rangle) = (ATRIBUT, \langle /p \rangle \langle X \rangle)
d(ATRIBUT, >, ) = (CONTENT, )
d(CONTENT, , ) = (BODY, e)
d(BODY, <link, <X>) = (ATRIBUT, </linkB><X>)
d(ATRIBUT, >, </validLinkB>) = (BODY, e)
d(BODY, <script, <X>) = (ATRIBUT, </scriptB><X>)
d(ATRIBUT, >, </scriptB>) = (CONTENT, </scriptB>)
d(CONTENT, </script>, </scriptB>) = (BODY, e)
d(BODY, <img, <X>) = (ATRIBUT, </img><X>)
d(ATRIBUT, >, </validImg>) = (BODY, e)
d(BODY, <button, <X>) = (ATRIBUT, </button><X>)
d(ATRIBUT, >, </typeButton>) = (CONTENT, </typeButton>)
d(CONTENT, </button>, </typeButton>) = (BODY, e)
d(BODY, <form, </form>) = (ERROR, e)
d(BODY, <form, <X>) = (ATRIBUT, </form><X>)
d(ATRIBUT, >, </form>) = (BODY, </form>)
d(ATRIBUT, >, </methodForm>) = (BODY, </methodForm>)
d(BODY, </form>, </methodForm>) = (BODY, e)
d(BODY, <input, <X>) = (ATRIBUT, </input><X>)
d(ATRIBUT, >, </typeInput>) = (BODY, e)
d(BODY, <table, <X>) = (ATRIBUT, <X>)
d(ATRIBUT, >, ) = (TABLE, )
d(TABLE, , ) = (BODY, e)
d(CONTENT, \langle br, \langle X \rangle) = (ATRIBUT, \langle /brC \rangle \langle X \rangle)
d(ATRIBUT, >, </brC>) = (CONTENT, e)
d(CONTENT, <em, <X>) = (ATRIBUT, </emC><X>)
d(ATRIBUT, >, </emC>) = (CONTENT, </emC>)
d(CONTENT, </em>, </emC>) = (CONTENT, e)
d(CONTENT, \langle b, \langle X \rangle) = (ATRIBUT, \langle bC \rangle \langle X \rangle)
d(ATRIBUT, >, </bC>) = (CONTENT, </bC>)
d(CONTENT, </b>, </bC>) = (CONTENT, e)
d(CONTENT, <abbr, <X>) = (ATRIBUT, </abbrC><X>)
d(ATRIBUT, >, </abbrC>) = (CONTENT, </abbrC>)
d(CONTENT, </abbr>, </abbrC>) = (CONTENT, e)
d(CONTENT, \langle strong, \langle X \rangle) = (, ATRIBU)
d(ATRIBUT, >, </strongC>) = (CONTENT, </strongC>)
d(CONTENT, </strong>, </strongC>) = (CONTENT, e)
d(CONTENT, <small, <X>) = (ATRIBUT, </smallC><X>)
d(ATRIBUT, >, </smallc>) = (CONTENT, </smallC>)
```

```
d(CONTENT, </small>, </smallC>) = (CONTENT, e)
d(CONTENT, \langle hr, \langle X \rangle) = (ATRIBUT, \langle /hrC \rangle \langle X \rangle)
d(ATRIBUT, >, </hrC>) = (CONTENT, e)
d(TABLE, <tr, </table>) = (ATRIBUT, )
d(ATRIBUT, >, ) = (TABLE, )
d(TABLE, , ) = (TABLE, e)
d(TABLE, \langle th, \langle /tr \rangle) = (ATRIBUT, \langle /th \rangle \langle /tr \rangle)
d(ATRIBUT, >, ) = (CONTENT, )
d(CONTENT, , ) = (TABLE, e)
d(TABLE, \langle td, \langle /tr \rangle) = (ATRIBUT, \langle /td \rangle \langle /tr \rangle)
d(ATRIBUT, >, ) = (CONTENT, )
d(CONTENT, , ) = (TABLE, e)
d(START, <html, <Z>) = (ATRIBUT, </html><Z>)
d(ATRIBUT, >, </html>) = (HTML, </html>)
d(HTML, <head, </html>) = (ATRIBUT, </head></html>)
d(ATRIBUT, >, </head>) = (HEAD, </head>)
d(HEAD, </head>, </head>) = (HTMLH, e)
d(HTMLH, <body, </html>) = (ATRIBUT, </body></html>)
d(ATRIBUT, >, </body>) = (BODY, </body>)
d(BODY, </body>, </body>) = (HTMLHB, e)
d(HTMLHB, </html>, </html>) = (FINISH)
```

# 3.8. Diagram PDA

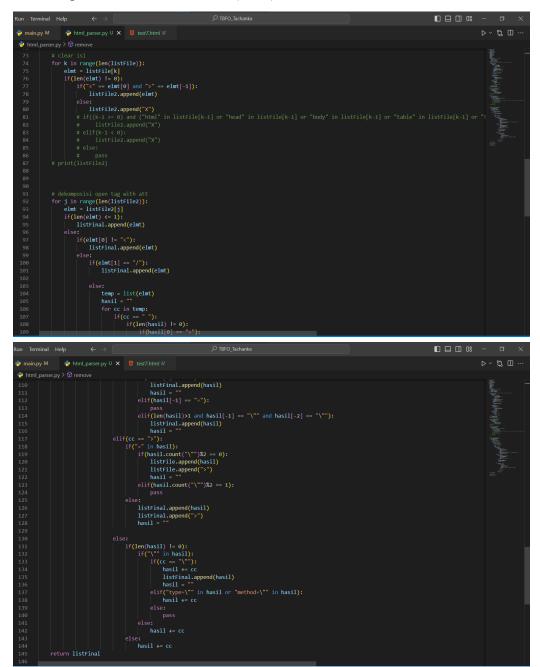


# **BAB IV**

# Implementasi dan Pengujian

### 4.1. HTML Parser

```
D ~ ₩ Ш
html_parser.py > \( \operatorname{\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\ext{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\tin}$}}}$}\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\exititt{$\text{$\text{$\text{$\text{$\text{$\text{$\exitittit{$\exitititt{$\text{$\text{$\text{$\text{$\text{$\text{$\text{$\tex{
                                      def remove(s, indx):
    s = list(s)
    s.pop(indx)
    return ''.join(s)
    def parser(nameFile):
    strFile = ""
    listFile = []
    listFile2 = []
                                                              Instfile2 = []
instfile3 = []
Instfile3 = []
temp1ag = ""
count = 0
tempAtt = ""
B Use file
with open(namefile, 'r') as file:
    # Baca file
                                                                   # Baca file
content = file.read()
strFile = content
strFile=strFile.replace('\n', '')
                                                                   tempTag = ""
else:
    tempTag += char
elif(tempTag.count("\"")%2 == 0):
    listFile.append(tempTag)
    tempTag = ""
elif(tempTag.count("\"")%2 == 1):
    cose
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       else:
listFile.append(tempTag)
tempTag = ""
                                                                         elif(char == "<"):
    if(len(tempTag) == 0):
        tempTag += "<"
    else:
    if(tempTag) 0 != "<"):
        listFile.append(tempTag)
        tempTag = "<"
    else:
                                                                             else:
tempTag += char
listFile.append(tempTag)
# listFile = listFile.rem
```



Fungsi remove(a, b)

- Berfungsi untuk menghapus karakter ke-b dari string a

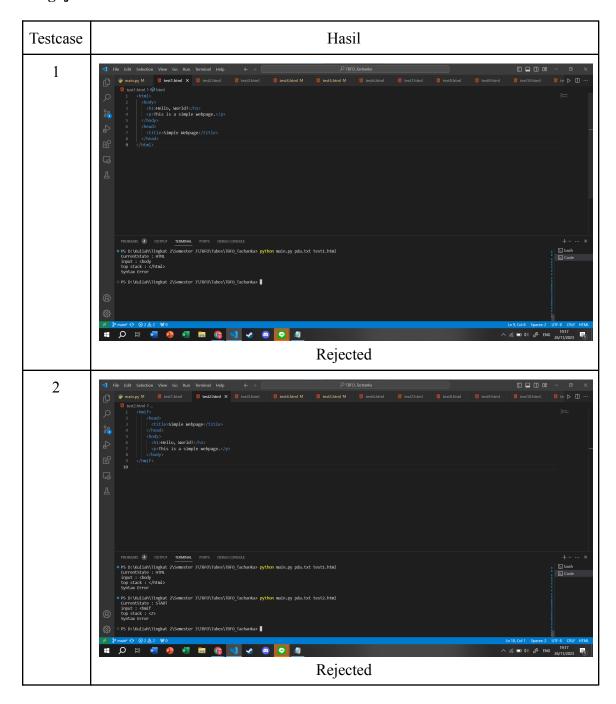
#### Fungsi parser(a)

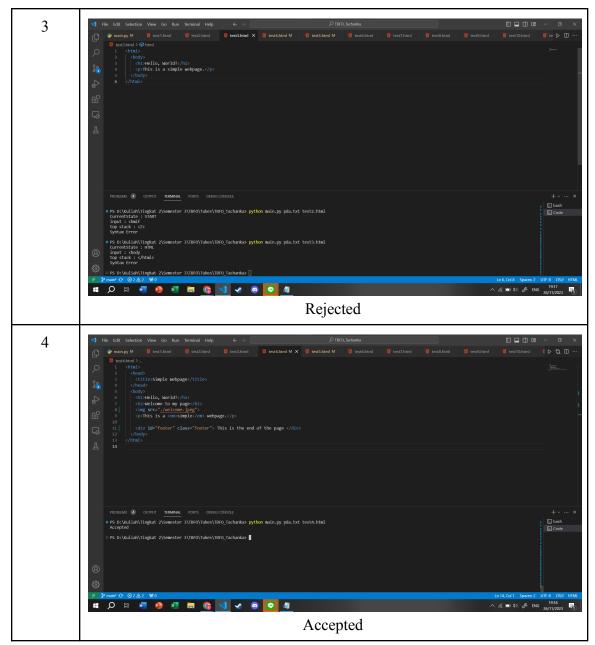
- Merubah file HTML menjadi token-token, dengan proses:
- 1. Mendekomposisi HTML menjadi opentag (<tag>), isi, dan closetag (</tag>).
- 2. Membersihkan white space.
- 3. Mengubah string di dalam tag menjadi token X.
- 4. Mendekomposisi opentag menjadi jenis opentag, atribut, dan >.

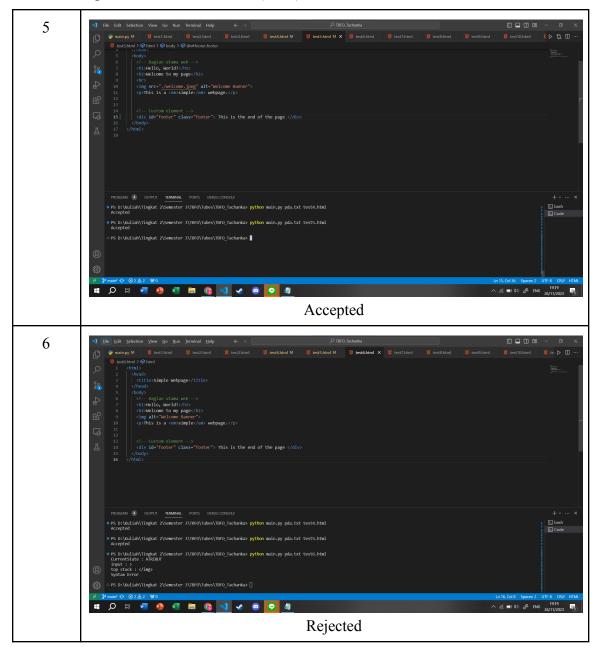
# 4.2. Main

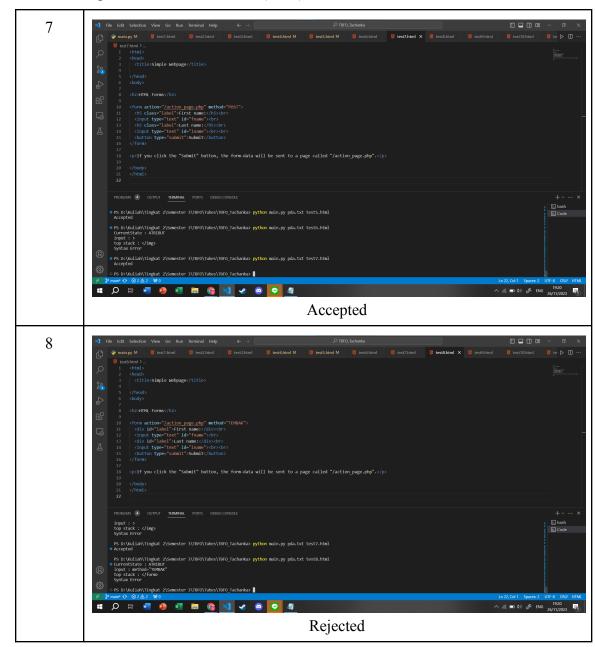
File main bertujuan untuk menerima nama file txt PDA, menerima nama file HTML yang ingin diakusisi, memanggil fungsi parser, dan melakukan proses validasi HTML berdasarkan PDA yang telah dipanggil.

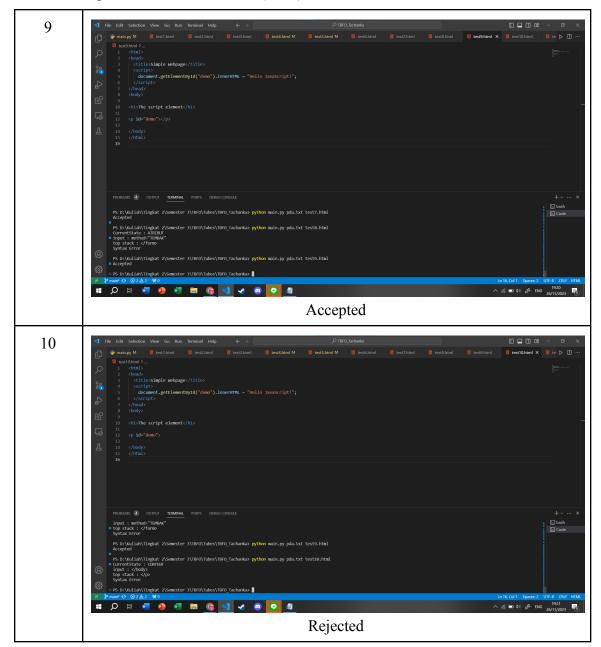
# 4.3. Pengujian













# **BAB V**

# **Deliverables**

Link repository dari Tugas Pemrograman IF 2124 Teori Bahasa Formal dan Otomata HTML *Checker* dengan Pushdown Automata (PDA) kelompok Tachanka:

https://github.com/chankiel/TBFO Tachanka

Link diagram PDA:

 $\underline{https://app.diagrams.net/\#G1iPfSGZLnOWw1GGVdnSUGrLHBHzWpk7YH}$ 

# BAB VI Pembagian Tugas

NIM	Nama	Tugas
13522029	Ignatius Jhon Hezkiel Chan	Membuat PDA, Main, Laporan
13522043	Daniel Mulia Putra Manurung	Membuat PDA, Diagram, Laporan
13522054	Benjamin Sihombing	Membuat Parser, Diagram, Laporan

# **BAB VII**

# **Daftar Pustaka**

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