

Write the HTML to a .html file

```
In [94]: import os
```

```
In [95]: with open("cards.html", "w") as output:  
          output.write(html)
```

Generating cards in HTML

Page template

```
In [81]: page_title = "My Library Cards"
```

```
In [82]: all_cards = ""
```

```
In [83]: html = f"""<!DOCTYPE html>
```

```
<html>  
<head>  
<meta charset="utf-8">  
<title>flex</title>  
<link href="stylesheet.css"  
      rel="stylesheet">  
</head>  
<body>  
<header>  
<h1>{page_title}</h1>  
</header>  
<section id="cards">  
<div>  
</div>  
</section>  
</body>  
</html>"""
```

Card template

```
In [84]: title = ""  
        img = ""
```

```
In [85]: card = f""<div class="card">
          <h2>{ title }</h2>
          <p>{ img }</p>
        </div>""
```

Gather some materials

```
In [86]: import os
```

```
In [87]: images = []
          titles = []

          folder = "./images/"

          for image in os.listdir(folder):
              print(folder + image)
              print("----")
              titles.append(image)
              images.append(folder + image)
```

```
./images/cards2.jpg
---
./images/cards5.jpg
---
./images/cards3.jpg
---
./images/cards1.jpg
---
./images/cards4.jpg
---
```

```
In [88]: titles
```

```
Out[88]: ['cards2.jpg', 'cards5.jpg', 'cards3.jpg',
          'cards1.jpg', 'cards4.jpg']
```

```
In [89]: images
```

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <title>flex</title>
    <link href="stylesheet.css" rel="stylesheet">
  </head>
  <body>
    <header>
      <h1>My Library Cards</h1>
    </header>
    <section id="cards">

      <div class="card">
        <h2>cards2.jpg</h2>
        <p><img src='./images/cards2.jpg'></p>
      </div>

      <div class="card">
        <h2>cards5.jpg</h2>
        <p><img src='./images/cards5.jpg'></p>
      </div>

      <div class="card">
        <h2>cards3.jpg</h2>
        <p><img src='./images/cards3.jpg'></p>
      </div>

      <div class="card">
        <h2>cards1.jpg</h2>
        <p><img src='./images/cards1.jpg'></p>
      </div>

      <div class="card">
        <h2>cards4.jpg</h2>
        <p><img src='./images/cards4.jpg'></p>
      </div>

    </section>
  </body>
</html>
```

```

In [ ] # --- and we add the variable "all_cards" into
the main html template ---
html = f"""<DOCTYPE html>
<html>
<head>
<meta charset="utf-8">
<title><flex>/title>
<link href="stylesheet.css"
rel="stylesheet">
</head>
<body>
<header>
<h1>{ page_title }</h1>
</header>
<section id="cards">
{ all_cards }
</section>
</body>
</html>"""
In [93]: print(html)

```

Generate the cards

```

Out[89]: [ './images/cards2.jpg',
 './images/cards3.jpg',
 './images/cards4.jpg',
 './images/cards1.jpg',
 './images/cards5.jpg',
 './images/cards2.jpg' ]

```

```

In [ ] counter = 0
for image in images:
# --- we prepare the variables we need ---
img = f"<img src='{ image }'>"
title = titles[counter]
# --- we declare the card template ---
card = f"""
<div class="card">
<h2>{ title }</h2>
<p>{ img }</p>
</div>
"""
# --- we print the card template (to see if
everything is going ok) ---
print(card)
# --- we add the card to the variable
"all_cards" (where we collect all the HTML) ---
# "card" is a string, so we can just glue
the different "cards" together with the "+"
all_cards = all_cards + card
# --- we add +1 to our counter ---
counter = counter + 1

```

```
<div class="card">
  <h2>cards2.jpg</h2>
  <p><img src='./images/cards2.jpg'></p>
</div>
```

```
<div class="card">
  <h2>cards5.jpg</h2>
  <p><img src='./images/cards5.jpg'></p>
</div>
```

```
<div class="card">
  <h2>cards3.jpg</h2>
  <p><img src='./images/cards3.jpg'></p>
</div>
```

```
<div class="card">
  <h2>cards1.jpg</h2>
  <p><img src='./images/cards1.jpg'></p>
</div>
```

```
<div class="card">
  <h2>cards4.jpg</h2>
  <p><img src='./images/cards4.jpg'></p>
</div>
```

```
<div class="card">
  <h2>cards2.jpg</h2>
  <p><img src='./images/cards2.jpg'></p>
</div>
```

```
<div class="card">
  <h2>cards5.jpg</h2>
  <p><img src='./images/cards5.jpg'></p>
</div>
```

```
<div class="card">
  <h2>cards3.jpg</h2>
  <p><img src='./images/cards3.jpg'></p>
</div>
```

```
<div class="card">
  <h2>cards1.jpg</h2>
  <p><img src='./images/cards1.jpg'></p>
</div>
```

```
<div class="card">
  <h2>cards4.jpg</h2>
  <p><img src='./images/cards4.jpg'></p>
</div>
```

```
In [9... # --- we check if all the cards are in the
variable "cards" ---
print(all_cards)
```