

Lab 4



HTML and CSS (Part 1)

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Subject: CS 471

Section number: 3526

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Task 1

Code

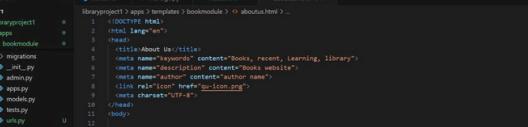


The screenshot shows a browser window displaying the rendered HTML of a Jupyter Notebook cell. The code in the cell is as follows:

```
ipython3 -c "from IPython.core.display import HTML; display(HTML(open('index.html').read()))"
```

The rendered output is a simple HTML page with the following structure:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta name="keywords" content="Books, recent, Learning, library">
    <meta name="description" content="Books website">
    <meta name="author" content="Jupyter Notebooks">
    <link rel="icon" href="icon.png">
    <meta charset="UTF-8" />
  </head>
  <body>
    <div>
      <a href="#">Index.html</a>
      <a href="list_books.html">list Books</a>
      <a href="#about.html">About</a>
    </div>
    <h1>This is heading 1 (Library)</h1>
    <p>This is a paragraph text </p>
    <hr>
    <!-- This is a comment in HTML, not render in the browser -->
    <!-- This is some other text. <br> with newline <br> and another line:</p>
    <br>
    <h2>This is heading 2</h2>
    <!-- This is some other text.</p>
  </body>
</html>
```



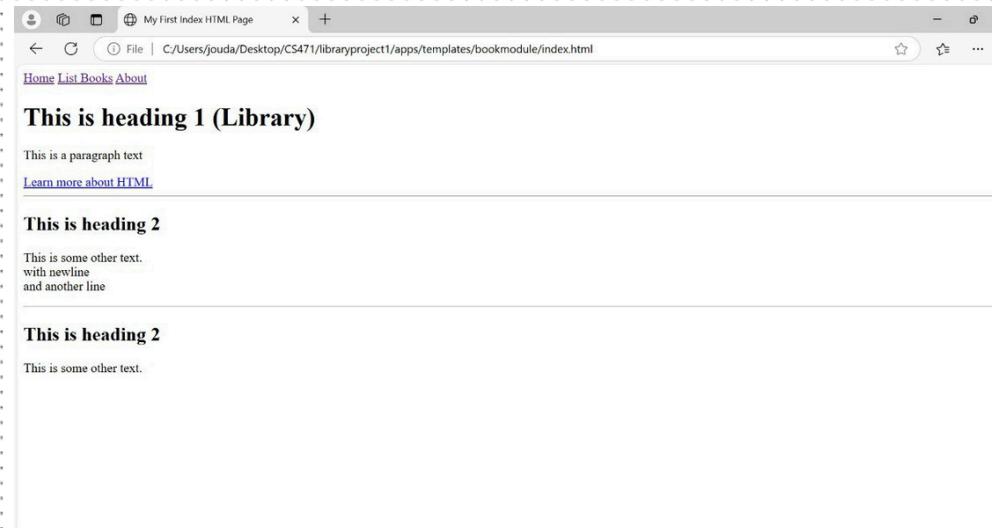
The screenshot shows a browser window with the following details:

- Address Bar:** http://127.0.0.1:5000
- Page Title:** Welcome
- Content Area:** The page displays a simple navigation menu:
 - [Home](#)
 - [List Books](#)
 - [Books](#)
 - [About Us](#)

Below the menu, there is a paragraph of text: "This is a paragraph text This is a paragraph text This is a paragraph text".
- Sidebar (Left):** A sidebar titled "EXPLORER" shows the project structure:
 - libraryproject
 - |- __init__.py
 - |- migrations
 - |- models.py
 - |- routes.py
 - |- static
 - |- templates
 - |- books
 - |- |- __init__.py
 - |- |- about.html
 - |- |- index.html
 - |- |- list_books.html
 - |- |- show.html
 - |- |- __pycache__
 - |- |- admin.py
 - |- |- apps.py
 - |- |- models.py
 - |- |- tests.py
 - |- |- urls.py
 - |- |- views.py
 - |- |- wsgi.py
- Bottom Status Bar:** Shows "In 75 Col 2 Span 2 Uf 0 Cfu 1 Hf 1"

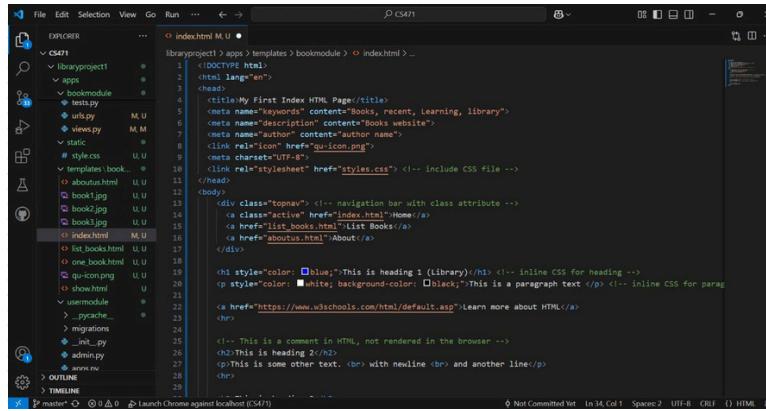
templates\book...		
<>	aboutus.html	U, U
☒	book1.jpg	U, U
☒	book2.jpg	U, U
☒	book3.jpg	U, U
<>	index.html	M, U
<>	list_books.html	U, U
<>	one_book.html	U, U
☒	qu-icon.png	U, U
<>	show.html	U

Task 1 Output



Task 2

Code

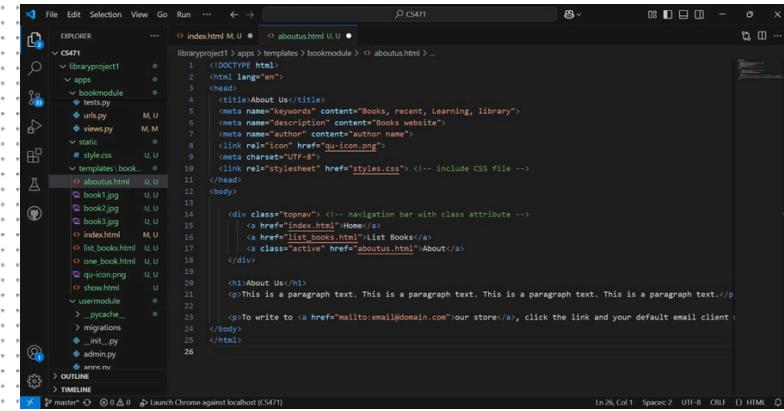


VS Code interface showing the file structure and the content of index.html.

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>My First Index HTML Page</title>
    <meta name="keywords" content="Books, recent, Learning, library">
    <meta name="description" content="Books website">
    <meta name="author" content="author name">
    <link rel="icon" href="ui-icon.png">
    <meta charset="UTF-8">
    <link rel="stylesheet" href="styles.css" ><!-- include CSS file -->
</head>
<body>
    <div class="topnav"> <!-- navigation bar with class attribute -->
        <a class="active" href="index.html">Home</a>
        <a href="list_books.html">List Books</a>
        <a href="aboutus.html">About</a>
    </div>

    <h1 style="color: blue;">This is heading 1 (Library)</h1><!-- inline CSS for heading -->
    <p style="color: white; background-color: black;">This is a paragraph text </p><!-- inline CSS for para -->

    <!-- This is a comment in HTML, not rendered in the browser -->
    <h2>This is heading 2</h2>
    <p>This is some other text. <br> with newline <br> and another line</p>
</body>
```

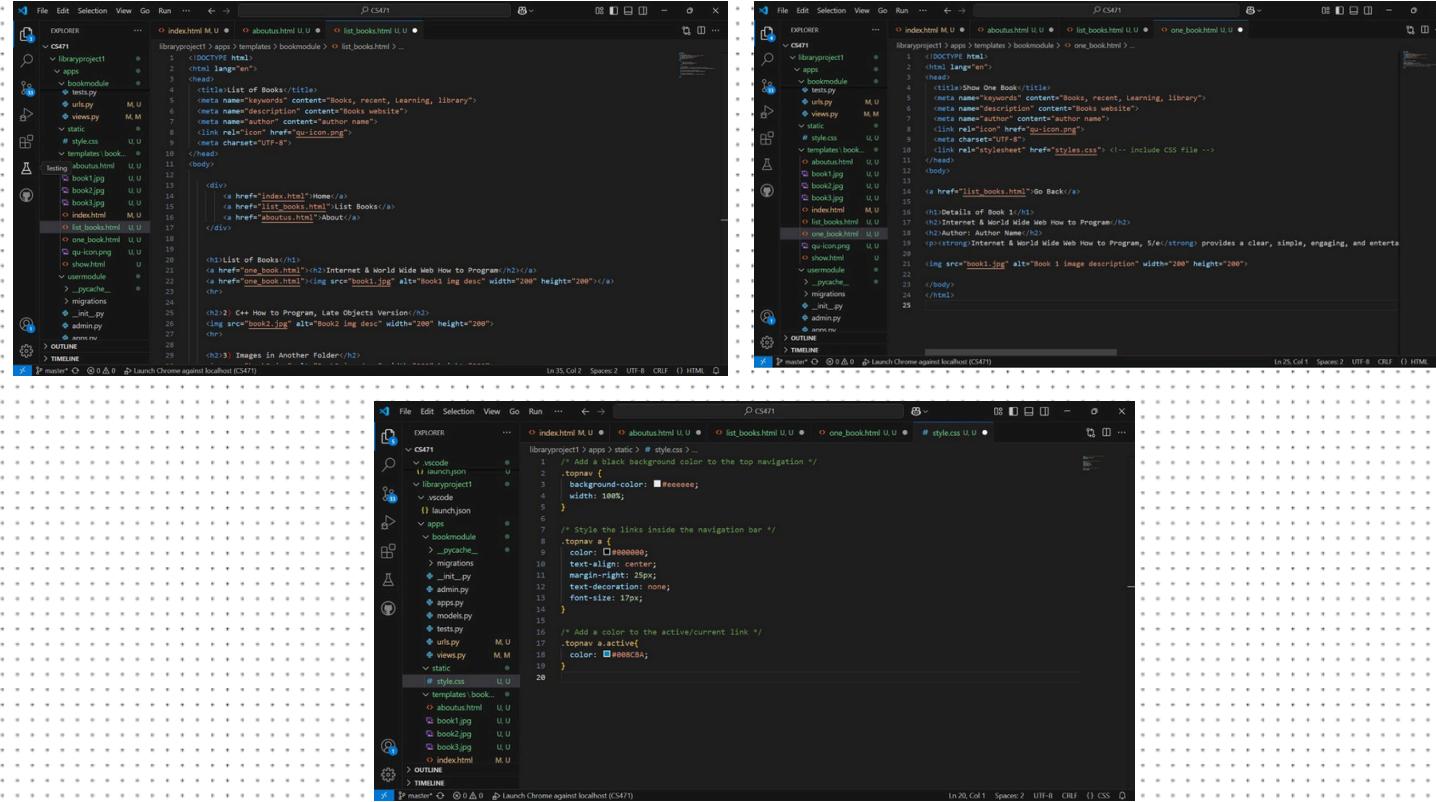


VS Code interface showing the file structure and the content of aboutus.html.

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>About Us</title>
    <meta name="keywords" content="Books, recent, Learning, library">
    <meta name="description" content="Books website">
    <meta name="author" content="author name">
    <link rel="icon" href="ui-icon.png">
    <meta charset="UTF-8">
    <link rel="stylesheet" href="styles.css" ><!-- include CSS file -->
</head>
<body>
    <div class="topnav"> <!-- navigation bar with class attribute -->
        <a href="index.html">Home</a>
        <a href="list_books.html">List Books</a>
        <a class="active" href="aboutus.html">About</a>
    </div>

    <h1>About Us</h1>
    <p>This is a paragraph text. This is a paragraph text. This is a paragraph text. This is a paragraph text.</p>
    <p>To write to <a href="mailto:email@domain.com">our store</a>, click the link and your default email client .</p>
</body>
```

Task 2 Code



The image shows four tabs open in VS Code, each displaying a different file from a library project:

- index.html**:
```html
 <!DOCTYPE html>
 <html lang="en">
 <head>
 <title>List of Books</title>
 <meta name="keywords" content="Books, recent, Learning, library" />
 <meta name="description" content="Books website" />
 <meta name="author" content="Author Name" />
 <link rel="icon" href="qu-icon.png" />
 <meta charset="UTF-8" />
 </head>
 <body>
 <div>
 <a href="index.html">Home</a>
 <a href="list\_books.html">List Books</a>
 <a href="aboutus.html">About</a>
 </div>
 <h2>List of Books</h2>
 <a href="one\_book.html"><h3>Internet & World Wide Web How To Program</h3></a>
 
 </body>
- aboutus.html**:  
```html
 <!DOCTYPE html>
 <html lang="en">
 <head>
 <title>Show One Book</title>
 <meta name="keywords" content="Books, recent, Learning, library" />
 <meta name="description" content="Books website" />
 <meta name="author" content="Author Name" />
 <link rel="icon" href="qu-icon.png" />
 <meta charset="UTF-8" />
 </head>
 <body>
 Home
 <h2>Details of Book 1</h2>
 <h2>Author: Author Name</h2>
 <p>Internet & World Wide Web How To Program, 8/e provides a clear, simple, engaging, and enter...
- list_books.html**:
```html
 <!DOCTYPE html>
 <html lang="en">
 <head>
 <title>List of Books</title>
 <meta name="keywords" content="Books, recent, Learning, library" />
 <meta name="description" content="Books website" />
 <meta name="author" content="Author Name" />
 <link rel="icon" href="qu-icon.png" />
 <meta charset="UTF-8" />
 </head>
 <body>
 <h2>List of Books</h2>
 <a href="one\_book.html"><h3>Internet & World Wide Web How To Program, 8/e</h3></a>
 
 </body>
- one\_book.html**:  
```html
 <!DOCTYPE html>
 <html lang="en">
 <head>
 <title>Show One Book</title>
 <meta name="keywords" content="Books, recent, Learning, library" />
 <meta name="description" content="Books website" />
 <meta name="author" content="Author Name" />
 <link rel="icon" href="qu-icon.png" />
 <meta charset="UTF-8" />
 </head>
 <body>
 Home
 <h2>Details of Book 1</h2>
 <h2>Author: Author Name</h2>
 <p>Internet & World Wide Web How To Program, 8/e provides a clear, simple, engaging, and enter...

style.css (bottom right):

```

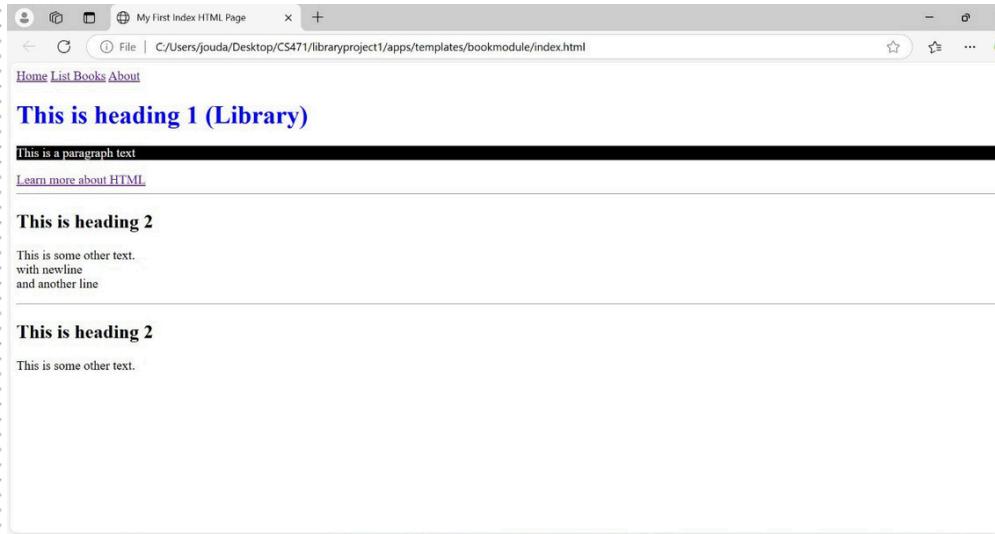
    /* Add a black background color to the top navigation */
    .topnav {
        background-color: #eeeeee;
        width: 100%;
    }

    /* Style the links inside the navigation bar */
    .topnav a {
        color: #000000;
        text-align: center;
        margin-right: 25px;
        text-decoration: none;
        font-size: 17px;
    }

    /* Add a color to the active/current link */
    .topnav a.active {
        color: #00008B;
    }

```

Task 2 Output



Task 3

Code

The screenshot shows the W3C Markup Validation Service interface. The URL <https://validator.w3.org> is entered in the address bar. The page displays the "Markup Validation Service" logo and navigation tabs: "Validate by URI", "Validate by File Upload", and "Validate by Direct Input". A "Address:" input field contains the URL <https://www.w3schools.com/html/default.asp>. Below the input field are "More Options" and a "Check" button. A note at the bottom explains the service's purpose for validating Web documents in various formats like HTML, XHTML, SML, and MathML. It also mentions RSS/Atom feeds, CSS stylesheets, and mobile content validation. A "W3Cx" developer icon is visible on the left.

The screenshot shows the Nu Html Checker interface. The URL <https://www.w3schools.com/html/default.asp> is entered in the address bar. The page displays the "Nu Html Checker" logo and navigation tabs: "Validate by URI", "Validate by File Upload", and "Validate by Direct Input". A "Address:" input field contains the URL <https://www.w3schools.com/html/default.asp>. Below the input field are "More Options" and a "Check" button. A note at the bottom explains the tool's purpose for better HTML checking. A "W3Cx" developer icon is visible on the left. The main content area shows validation results for the specified URL, including a warning about unnecessary JavaScript resources and an info message about trailing slashes on void elements.

The screenshot shows the W3C Markup Validation Service interface. The URL <https://validator.w3.org> is entered in the address bar. The page displays the "Markup Validation Service" logo and navigation tabs: "Validate by URI", "Validate by File Upload", and "Validate by Direct Input". A "File:" input field contains the file path `index.html`. Below the input field are "More Options" and a "Check" button. A note at the bottom explains the service's purpose for validating Web documents in various formats like HTML, XHTML, SML, and MathML. It also mentions RSS/Atom feeds, CSS stylesheets, and mobile content validation. A "W3Cx" developer icon is visible on the left.

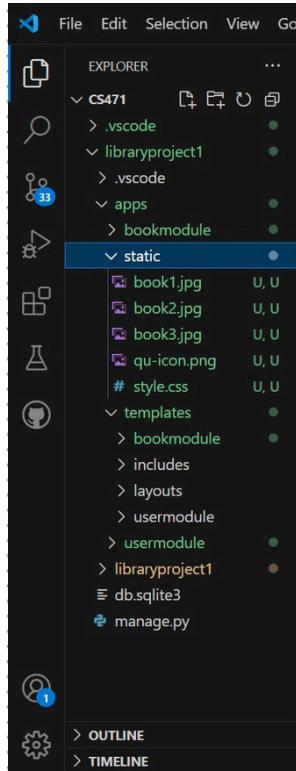
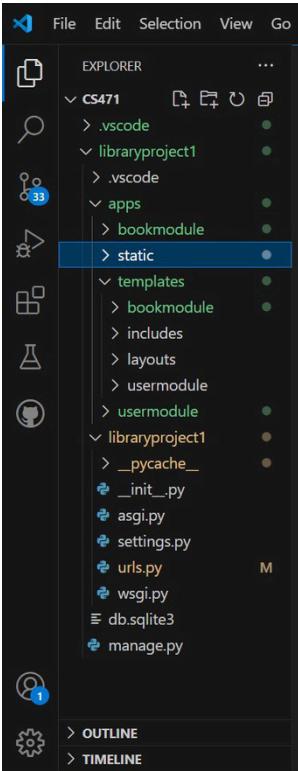
The screenshot shows the W3C Markup Validation Service interface. The URL <https://validator.w3.org> is entered in the address bar. The page displays the "Markup Validation Service" logo and navigation tabs: "Validate by URI", "Validate by File Upload", and "Validate by Direct Input". A "File:" input field contains the file path `index.html`. Below the input field are "More Options" and a "Check" button. A note at the bottom explains the service's purpose for validating Web documents in various formats like HTML, XHTML, SML, and MathML. It also mentions RSS/Atom feeds, CSS stylesheets, and mobile content validation. A "W3Cx" developer icon is visible on the left. The main content area shows validation results for the uploaded file, including a note about file upload compatibility with Internet Explorer.

Task 3 Output

The screenshot shows a web browser window titled "Showing results for uploaded file" and "HTML Tutorial". The address bar indicates the URL is <https://validator.w3.org/nu/#file>. The main content area is titled "Nu Html Checker". It displays a message: "This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change". Below this, it says "Showing results for uploaded file index.html". A "Checker Input" section contains a "Show" dropdown menu with options "source", "outline", "image report", and "Options...". A "Check by" dropdown menu is set to "file upload", with a "Choose File" button and a message "No file chosen". A note states: "Uploaded files with .xhtml or .xht extensions are parsed using the XML parser." A "Check" button is present. At the bottom, a green bar indicates "Document checking completed. No errors or warnings to show." Subsequent text in the log states: "Used the HTML parser.", "Total execution time 2 milliseconds.", and links for "About this checker" and "Report an issue".

Task 4

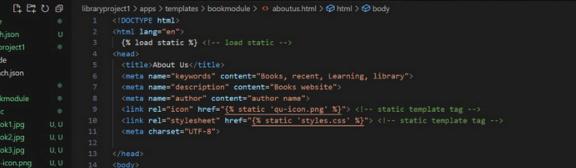
Code



```
File Edit Selection View Go Run ... CS471 views.py M M
libraryproject1 > apps > bookmodule > views.py
1 def index(request):
2     return render(request, "bookmodule/index.html")
3
4 def list_books(request):
5     return render(request, "bookmodule/list_books.html")
6
7 def viewbook(request, bookId):
8     # assume that we have the following books somewhere (e.g. database)
9     book1 = {"id":123, "title":'Continuous Delivery', "author":'J. Humble and D. Farley'}
10    book2 = {"id":456, "title":'Secrets of Reverse Engineering', "author":'E. Eban'}
11
12    targetBook = book1
13    if book1['id'] == bookId: targetBook = book1
14    if book2['id'] == bookId: targetBook = book2
15
16    context = {'book':targetBook} # book is the variable name accessible by the template
17
18    return render(request, 'bookmodule/show.html', context)
```

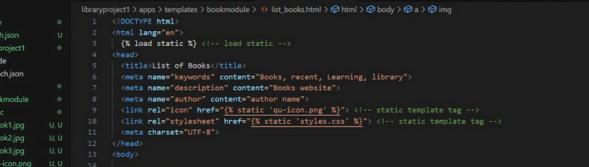
```
File Edit Selection View Go Run ... CS471 urls.py M U
libraryproject1 > apps > bookmodule > urls.py ...
1
2 URL configuration for libraryproject1 project.
3
4 The 'urlpatterns' list routes URLs to views. For more information please see:
5     https://docs.djangoproject.com/en/3.1/topics/http/urls/
6 Examples:
7     Function views
8         1. Add an import: from my_app import views
9         2. Add a URL to urlpatterns: path('', views.home, name='home')
10            Class-based views
11            1. Add an import: from other_app.views import Home
12            2. Add a URL to urlpatterns: path('', Home.as_view(), name='home')
13 Including another URLconf
14     1. Import the include() function: from django.urls import include, path
15
16     2. Add a URL to urlpatterns: path('blog/', include('blog.urls'))
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Task 4

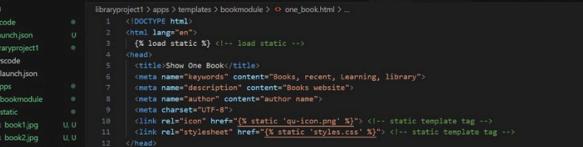


The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** Shows the project structure under "explorer".
 - "bookmodule" folder contains "aboutus.html", "index.html", "list_books.html", "one_book.html", and "show.html".
 - "static" folder contains "book1.jpg", "book2.jpg", and "qu-icon.png".
- Code Editor:** The main editor window displays the content of "aboutus.html". The code includes static assets like images and CSS, and uses URL templates for links.
- Status Bar:** Shows "CSRF" and "Launch Chrome against" options.
- Sidebar:** Includes icons for file operations (New, Open, Save, Find, Copy, Paste, Delete) and a search bar.



The screenshot shows a browser window displaying a list of books. The titles visible are 'C++ How to Program, Late Objects Version' and 'Internet & World Wide Web How To Program'. The browser interface includes tabs for 'about.html U.U', 'index.html M.U', 'list_books.html U.U', and 'one_book.html'. The address bar shows the URL 'http://127.0.0.1:5500/CS11'. The developer tools sidebar on the left shows the file structure of the project, including 'bookmodule' and 'book1.jpg' files.



The screenshot shows the DOM structure of a web page titled "Show One Book". The page includes meta tags for keywords and description, a link to a static icon, and a link to a static stylesheet. The main content area displays a list of books, with one book highlighted. The highlighted book's title is "Internet & World Wide Web How to Program", the author is "Author Name", and the description is "Provides a clear, simple, engaging, and enterta...". The image also shows the browser's address bar with the URL "about:book.html" and the developer tools' sidebar on the left.

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta name="keywords" content="Books, recent, Learning, library">
    <meta name="description" content="Books website">
    <meta name="author" content="Author Name">
    <meta charset="UTF-8">
    <link rel="icon" href="% static 'ui-icon.png' %">
    <link rel="stylesheet" href="% static 'styles.css' %">
  </head>
  <body>
    <h1>Details of Book 1:</h1>
    <h2>Internet & World Wide Web How to Program</h2>
    <h3>Author: Author Name</h3>
    <p><strong>Provides a clear, simple, engaging, and enterta...</strong></p>
    
  </body>
</html>
```

Task 4 Output

My First Index HTML Page

127.0.0.1:8000/books/

Home List Books About

This is heading 1 (Library)

This is a paragraph text

[Click Here to learn more about HTML & CSS](#)

This is heading 2

This is some other text.
with newline
and another line

This is heading 2

This is some other text.

This is the list of books page

127.0.0.1:8000/books/list_books/

Home List Books About

[Internet & World Wide Web How to Program](#)



2) C++ How to Program, Late Objects Version



Task 5

Code

File Edit Selection View Go Run ... base.html

```
LIBRARY... LIBRARY... vscode
apps
  bookmodule
    static
      book1.jpg
      book2.jpg
      book3.jpg
      qu-icon.png
      style.css
    templates
      bookmodule
        aboutus.html
        index.html M
        list_books.html
        one_book.html
        show.html
      includes
        footer.html
        header.html
      layouts
        base.html U
      usermodule
    usermodule
  outline
  timeline
```

base.html

```
1 <!DOCTYPE html>
2 <html>
3   <% load static %>
4   <head>
5     <title>{{ block title }}</title>
6     <meta name="keywords" content="Books, recent, learning, library">
7     <meta name="description" content="Books website">
8     <meta name="author" content="Author name">
9     <link rel="icon" href="{% static 'qu-icon.png' %}">
10    <meta charset="UTF-8">
11
12    <link rel="stylesheet" href="{% static 'styles.css' %}"> <!-- include css file -->
13
14    <block stylesheets %>{{ endblock stylesheets %}}
15
16  </head>
17
18  <% include "includes/header.html" %>
19
20  <% block content %>{{ endBlock content %}}
21
22  <% include "includes/footer.html" %>
23
24 </body>
25 </html>
```

File Edit Selection View Go Run ... header.html

```
LIBRARY... LIBRARY... vscode
apps
  bookmodule
    static
      book1.jpg
      book2.jpg
      book3.jpg
      qu-icon.png
      style.css
    templates
      bookmodule
        aboutus.html
        index.html M
        list_books.html
        one_book.html
        show.html
      includes
        footer.html
        header.html U
      layouts
        base.html U
      usermodule
    usermodule
  outline
  timeline
```

header.html

```
1 <!-- with request.resolver_match.url_name as url_name -->
2 <div class="topnav">
3   <a class="active" href="{% url 'books.index' %}">Home</a>
4   <a class="active" href="{% url 'books.list_books' %}">List</a>
5   <a class="active" href="{% url 'books.abouts' %}">About</a>
6 </div>
7 <% endwith %>
```

File Edit Selection View Go Run ... footer.html

```
LIBRARY... LIBRARY... vscode
apps
  bookmodule
    static
      book1.jpg
      book2.jpg
      book3.jpg
      qu-icon.png
      style.css
    templates
      bookmodule
        aboutus.html
        index.html M
        list_books.html
        one_book.html
        show.html
      includes
        footer.html U
        header.html
      layouts
        base.html U
      usermodule
    usermodule
  outline
  timeline
```

footer.html

```
1 <p>This page was created by joud</p>
```

Task 5

Code

The image shows four code editor tabs side-by-side, each displaying a different file from a Django project structure named "libraryproject".

- index.html:** This file extends the base.html layout. It contains a title block, a block content section with a heading and a paragraph, and a block content section with two paragraphs.
- aboutus.html:** This file extends the base.html layout. It contains a title block, a block content section with a heading and a paragraph, and a block content section with a link to an email.
- list_books.html:** This file extends the base.html layout. It contains a block title section stating "This is the list of books", a block stylesheets section with CSS for h1 and h2 tags, and a block content section with links to individual book pages.
- one_book.html:** This file extends the base.html layout. It contains a block title section with the book's title, a block content section with details like author and publisher, and a block content section featuring a book image.

The code editor interface includes a sidebar for navigating through the project's file structure, and tabs for "File", "Edit", "Selection", "View", "Go", "Run", and "Python Debugger: Djano".

Task 5 Output

My First Index HTML Page

127.0.0.1:8000/books/

Home List Books About

This is heading 1 (Library)

This is a paragraph text

[Click Here to learn more about HTML & CSS](#)

This is heading 2

This is some other text.
with newline
and another line

This is heading 2

This is some other text.

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This is the list of books page

127.0.0.1:8000/books/list_books/



2) C++ How to Program, Late Objects Version



3) Images in Another Folder



About us page

127.0.0.1:8000/books/aboutus/

Home List Books About

About Us

This is a paragraph text. This is a paragraph text. This is a paragraph text. This is a paragraph text.

To write to [our store](#), click the link and your default email client will open an email message addressed to us.

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