

# EX01 Developing a Simple Webserver

**Date:** 01-04-2024

## **AIM:**

To develop a simple webserver to serve html pages.

## **DESIGN STEPS:**

### **Step 1:**

HTML content creation.

### **Step 2:**

Design of webserver workflow.

### **Step 3:**

Implementation using Python code.

### **Step 4:**

Serving the HTML pages.

### **Step 5:**

Testing the webserver.

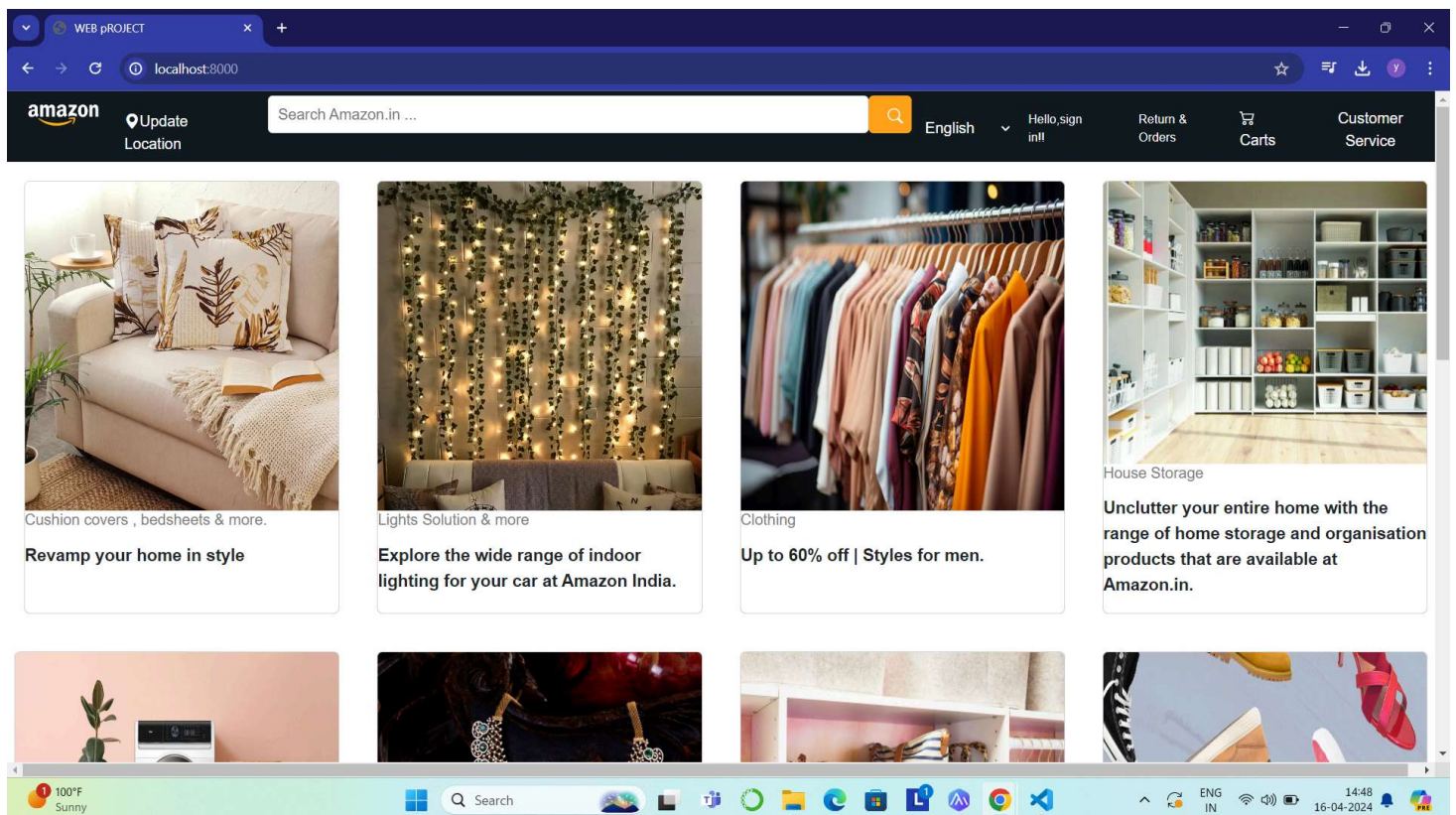
## **PROGRAM:**

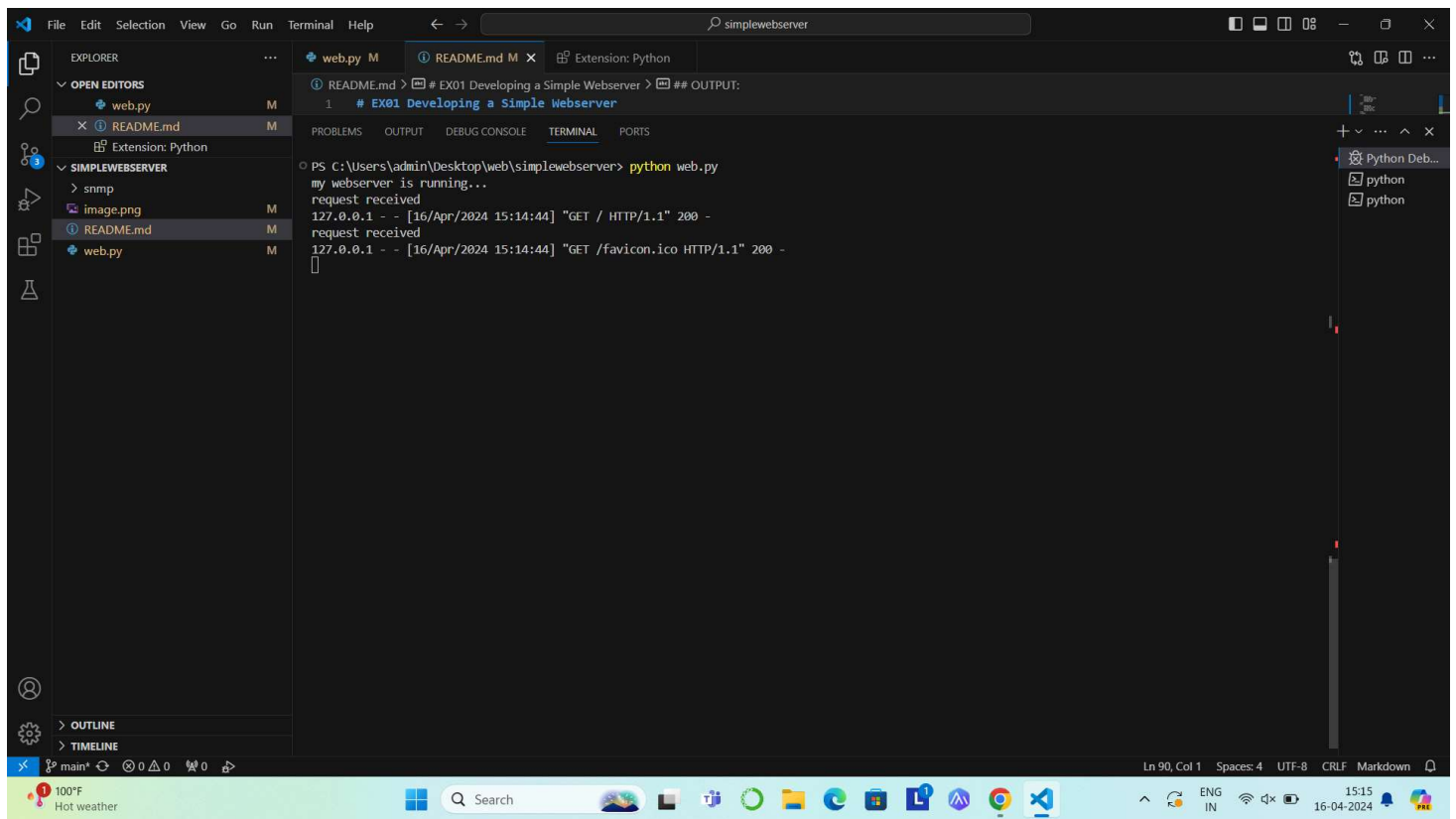


```
from http.server import HTTPServer, BaseHTTPRequestHandler
content = """
<html>
  <head>
    <title>Top Software Companies Revenue</title>
  </head>
  <body>
    <table border="4" cellspacing="5" width="40" height="50"
      <caption>REVENUE</caption>
      <tr>
        <th>Rank</th>
        <th>company name</th>
        <th>Revenue</th>
        <th>Market cap</th>
      </tr>
      <tr>
        <td>1</td>
        <td>Microsoft</td>
        <td>$86.8</td>
        <td>$370.3</td>
      </tr>
      <tr>
        <td>2</td>
        <td>Oracle</td>
        <td>$37.1</td>
        <td>$79.4</td>
      </tr>
      <tr>
        <td>3</td>
        <td>SAP</td>
        <td>$20.9</td>
        <td>$35.5</td>
      </tr>
      <tr>
        <td>4</td>
        <td>Symantec</td>
        <td>$6.8</td>
        <td>$14</td>
      </tr>
      <tr>
        <td>5</td>
        <td>vMware</td>
        <td>$5.2</td>
        <td>$41.03</td>
      </tr>
    </table>
  </body>
</html>
```

```
"""  
class myhandler(BaseHTTPRequestHandler):  
    def do_GET(self):  
        print("request received")  
        self.send_response(200)  
        self.send_header('content-type', 'text/html; charset=utf-8')  
        self.end_headers()  
        self.wfile.write(content.encode())  
server_address = ('',8001)  
httpd = HTTPServer(server_address,myhandler)  
print("my webserver is running...")  
httpd.serve_forever()
```

## OUTPUT:





The screenshot shows a Visual Studio Code editor window with the following components:

- Explorer:** Shows the file structure with 'web.py' and 'README.md' files.
- Open Editors:** Displays 'web.py' and 'README.md'.
- Terminal:** Shows the command prompt output for running 'python web.py'. The output indicates the webserver is running and has received two GET requests from 127.0.0.1.
- Python Debug Console:** Shows the Python interpreter running.

```
PS C:\Users\admin\Desktop\web\simplewebserver> python web.py
my webserver is running...
request received
127.0.0.1 - - [16/Apr/2024 15:14:44] "GET / HTTP/1.1" 200 -
request received
127.0.0.1 - - [16/Apr/2024 15:14:44] "GET /favicon.ico HTTP/1.1" 200 -
```

## RESULT:

The program for implementing simple webserver is executed successfully.