

## app.py

```
from flask import Flask, render_template, request, redirect
import os
import datetime
import csv
import webbrowser
fname = "error"
lname = "error"
varss=True
timeleft = datetime.datetime.now()
def openTab(x):
    if x ==True: #open a new tab
        webbrowser.open('http://127.0.0.1:5000/')
        print("tab open")

openTab(varss)
varss=False
app = Flask(__name__)
@app.route('/credits')
def default():
    return "hello World" #test page
@app.route('/back')
def back():
    global fname #imports the vars into the function
    global lname

    now = datetime.datetime.now().strftime("%H:%M:%S") #gets the time to allow the p
age to display the time left
    return render_template('back.html', variable=now, fname=fname, lname=lname) #s
ends the data to page
@app.route('/')
def home():
    global fname //it is in this section that I will change. Because I am setting
the names to a variable, the system will start overwriting variables when I new
person signs in. If I set the names and times to an array, I can condense it down
to one, which will make it easier to have multiple users.
    global lname
    global timeleft

    date_today = datetime.datetime.now().strftime("%Y-%m-%d")
    date = datetime.datetime.now().strftime("%H:%M:%S")
    now = datetime.datetime.now()
    timereturn = now-timeleft
    path = os.getcwd() #gets path to folder
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f = path+'//signoutsheets//' + date_today + 'signoutlog' + '.csv'
open(f, mode='a+')
if fname != "error" or lname != "error":
    with open(f, mode='a+') as signout: #writes the lines to the spreadsheet
        signout_writer = csv.writer(signout, delimiter=',', quotechar='"', quoting=csv
.QUOTE_MINIMAL)

        signout_writer.writerow([fname.upper(), lname.upper(), date, str("returned"), s
tr("total time out: ") + str(timereturn)]) //In this section if I had the system
check the previous row, and write to it if the names match, I could condense the
spreadsheet by half. This would make it easier to read, and take less time to
find the data you need.

    return render_template('home.html' )

@app.route('/', methods=['POST']) #gets the data from the page
def my_form_post():
    global fname
    global lname
    global timeleft
    fname = request.form['fname']
    lname = request.form['lname']
    lname_up = lname.upper()
    fname_up = fname.upper()
    date_today = datetime.datetime.now().strftime("%Y-%m-%d")
    date = datetime.datetime.now().strftime("%H:%M:%S")
    path = os.getcwd()
    f = path+'//signoutsheets//' + date_today + 'signoutlog' + '.csv'
    timeleft = datetime.datetime.now()
    if fname != 'error' or lname != 'error':
        with open(f, mode='a+') as signout:
            signout_writer = csv.writer(signout, delimiter=',', quotechar='"', quoting=csv
.QUOTE_MINIMAL)
            signout_writer.writerow([fname_up, lname_up, date, str("left")])

    return redirect('http://127.0.0.1:5000/back') #sends to next screen

if __name__ == '__main__':
    ip = '127.0.0.1'
    port = int(os.environ.get('PORT', 5000))
    app.run(host=ip, port=port, debug=False)

```

# back.html

```
<!DOCTYPE html>
<html>

<head>
  <script>
    var doneStuff;
    if (!doneStuff);
    doneStuff = true;
    var timeStart = new Date().getTime();
    var teachervar = false;
    var color = red;
  </script>
  {% comment %} sets the variables {% endcomment %}

</head>
<script>
  function setvariables() {
    document.getElementById("alert").innerHTML =
      "STUDENT HAS BEEN OUT FOR MORE THAN 7 MINUTES. PLEASE ALERT YOUR TEACHER!";
    document.getElementById("disable").disabled = false;
  }
</script>

<body style="background-color:color;">
  </h1>
  <h2>{{ fname }} is currently out</h2>
  <p>Press the button below if you are returning. </p>
  <p2>The student left at: {{ variable }}</p2>
  {% comment %} this is what is displayed on the screen. {% endcomment %}
  <p id="demo"></p>
  <p id="alert"></p>
  <!-- https://www.w3schools.com/howto/howto_js_countdown.asp -->
  <script>
    // Set the date we're counting down to
    var countdownDate = new Date().getTime();
    // Update the count down every 1 second
    var x = setInterval(function () {
      // Get today's date and time
      var now = new Date().getTime();
      // Find the distance between now and the count down date
      var distance = now - timeStart;
```

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var colour = "white";
var out = 0;
document.body.style.backgroundColor = colour;
// Time calculations for days, hours, minutes and seconds
var days = Math.floor(distance / (1000 * 60 * 60 * 24));
var hours = Math.floor((distance % (1000 * 60 * 60 * 24)) / (1000 * 60 * 60
));
var minutes = Math.floor((distance % (1000 * 60 * 60)) / (1000 * 60));
var seconds = Math.floor((distance % (1000 * 60)) / 1000);
// Display the result in the element with id="demo"
document.getElementById("demo").innerHTML = hours + "h " +
    minutes + "m " + seconds + "s ";
// 600000=10mins
if (distance > (600000/10)*7 && !teachervar) { <!--in this section the time
the student can be out is 7. However this value cannot be changed. An extension I
could make could be setting this value in a file, as this would allow my client
to change the time that can be spent out, without having to do a deep dive into
the code.

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    setvariables()
    if (seconds % 2 == 0 && !teachervar)
    {
        var colour = "red"
        document.body.style.backgroundColor = colour;
    }
}
}, 1000);
</script>
<!--

```

- most of the code is written by an example. I nearly addaped it for my needs. Fr  
om the start of this script  
till the end of the script -->

```

<button onclick="goto()">I'm back</button>

```

```

<script>
function goto() {
    location.replace("http://127.0.0.1:5000/")
}
</script>
<button id='disable' onclick="teacher()" disabled>Turn Off Alert</button>
<script> //this section disables the alarm when pressed
function teacher() {
    teachervar = true;
}

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```
</script>
</body>
```

## home.html

```
<!DOCTYPE html>
<!-- https://www.w3docs.com/Learn-html/html-form-templates.html -->
<html>
  <head>
    <title>Bathroom Sign-out Sheet</title>
    <link href="https://fonts.googleapis.com/css?family=Roboto:300,400,500,700" rel="stylesheet">
    <style>
      html, body {
        display: flex;
        justify-content: center;
        font-family: Roboto, Arial, sans-serif;
        font-size: 15px;
      }
      form {
        border: 5px solid #f1f1f1;
      }
      input[type=text], input[type=password] {
        width: 100%;
        padding: 16px 8px;
        margin: 8px 0;
        display: inline-block;
        border: 1px solid #ccc;
        box-sizing: border-box;
      }
      button {
        background-color: #8ebf42;
        color: white;
        padding: 14px 0;
        margin: 10px 0;
        border: none;
        cursor: grabbing;
        width: 100%;
      }
      h1 {
        text-align:center;
        font-size:18;
      }
    </style>
  </head>
  <body>
    <h1>Bathroom Sign-out Sheet</h1>
    <div>
      <div>
        <input type="text" value="Name" />
        <input type="password" value="Password" />
      </div>
      <button type="button" value="Sign Out" />
    </div>
  </body>
</html>
```

```

    button:hover {
    opacity: 0.8;
    }
    .formcontainer {
    text-align: left;
    margin: 24px 50px 12px;
    }
    .container {
    padding: 16px 0;
    text-align:left;
    }
    span.psw {
    float: right;
    padding-top: 0;
    padding-right: 15px;
    }
    /* Change styles for span on extra small screens */
    @media screen and (max-width: 300px) {
    span.psw {
    display: block;
    float: none;
    }
    }
</style>
</head>
<body>
    <form method="POST">
        <h1>Bathroom Sign-Out Sheet</h1>
        <div class="formcontainer">
            <hr/>
            <div class="container">
                <label for="fname"><strong>First Name</strong></label>
                <input name = "fname" type="text" placeholder="Enter First Name" require
d>

                <label for="lname"><strong>Last Name</strong></label>
                <input name = "lname" type="text" placeholder="Enter Last Name" required
>

            </div>
            <button type="submit">Login</button>
            <div class="container" style="background-color: #eee">
                {% comment %} this is where the data is received {% endcomment %}

            </div>
        </form>
    </body>
</html>

```