

Index.html

```
<!DOCTYPE html>
<html >
<head>
<h3>VirtualEye - Life Guard for Swimming Pools to Detect Active
Drowning</h3>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial- scale=1">
<title>Virtual Eye</title>
<link href='C:\Users\ELCOT\Documents\ibmhtml' rel='stylesheet'
type='text/css'>
<link href='https://fonts.googleapis.com/css?family=Arimo'
rel='stylesheet' type='text/css'>
<link href='https://fonts.googleapis.com/css?family=Hind:300'
rel='stylesheet' type='text/css'>
<link
href='https://fonts.googleapis.com/css?family=Open+Sans+Condensed:300'
rel='stylesheet'
type='text/css'>
<link rel="stylesheet" href="{{ url_for('static',
filename='css/style.css') }}">
PNT2022TMID44015
<link
href='https://fonts.googleapis.com/css?family=Merriweather'
rel='stylesheet'>
<link href='https://fonts.googleapis.com/css?family=Josefin+Sans'
rel='stylesheet'>
<link href='https://fonts.googleapis.com/css?family=Montserrat'
rel='stylesheet'>
<style>
.header {
top:0;
margin:0px;
left: 0px;
right: 0px;
position: fixed;
background-color: #28272c;
color: white;
box-shadow: 0px 8px 4px grey;
overflow: hidden;
padding-left:10px;
font-family: 'Josefin Sans';
font-size: 2vw;
width: 100%;
height:8%;
text-align: left;
}
.topnav {
overflow: hidden;
background-color: #333;
}
.topnav-right a {
float: left;
color: #f2f2f2;
text-align: center;
```

```

padding: 14px 14px;
text-decoration: none;
font-size: 18px;
}
.topnav-right a: hover {
background-color: #ddd;
color: black;
}
.topnav-right a.active {
background-color: #565961;
color: white;
}
.topnav-right {
float: right;
padding-right: 50px;
}
.login{
margin-top: -70px;
}
body {
background-color: #ffffff;
background-repeat: no-repeat;
background-size: cover;
background-position: 0px 0px;
}
.login{
margin-top: 50px;
}
form {border: 0px solid #f1f1f1; margin-left: 400px; margin-
right: 200px;}
input[type=text],
input[type=email],input[type=number],input[type=password] {
width: 50%;
padding: 12px 12px;
display: inline-block;
margin-bottom: 18px;
border: 1px solid #ccc;
box-sizing: border-box;
}
button {
background-color: #28272c;
color: white;
padding: 14px 20px;
margin-bottom: 8px;
border: none;
cursor: pointer;
width: 50%;
font-weight: bold;
}
button:hover {
opacity: 0.8;
}
.cancelbtn {
width: auto;
padding: 10px 18px;
background-color: #f44336;
}
.imgcontainer {

```

```

text-align: left;
margin: 24px 0 12px 0;
}
img.avatar {
width: 30%;
border-radius: 20%;
}
.container {
padding: 14px;
}
span.psw {
float: right;
padding-top: 16px;
}
/* Change styles for span and cancel button on extra small screens*/
@media screen and (max-width: 300px) {
span.psw {
display: block;
float: none;
}
.cancelbtn {
width: 50%;
}
}
</style>
</head>
<body style="font-family:Montserrat;">
<div class="header">
<div style="width:50%;float:left;font-size:2vw;text-align:left;color:white; padding-top:1%">Virtual
Eye</div><div class="topnav-right" style="padding-top:0.5%;">
<a href="{{ url_for('index')}}">Home</a>
<a class="active" href="{{ url_for('login')}}">Login</a>
<a href="{{ url_for('register')}}">Register</a>
</div>
</div>
<div id="login" class="login">
<form action="{{url_for('afterlogin')}}" method="post"><div
class="imgcontainer">

</div>
<div class="container">
<input type="email" placeholder="Enter a valid mail id" name="_id"
required><br>
<input type="password" placeholder="Enter a correct Password"
name="psw" required>
<button type="submit">Sign in</button><br>
</div>
</form>
</div>
</body>
</html>

```

register.html

```
<!DOCTYPE html>
<html >
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial- scale=1">
<title>Virtual Eye</title>
<link href='C:\Users\ELCOT\Documents\ibmhtml' rel='stylesheet'
type='text/css'>
<link href='C:\Users\ELCOT\Documents\ibmhtml' rel='stylesheet'
type='text/css'>
<link href='https://fonts.googleapis.com/css?family=Hind:300'
rel='stylesheet' type='text/css'>
<link
href='https://fonts.googleapis.com/css?family=Open+Sans+Condensed:300'
rel='stylesheet'
type='text/css'>
<link rel="stylesheet" href="{{ url_for('static',
filename='css/style.css') }}">
PNT2022TMID44015
<link
href='https://fonts.googleapis.com/css?family=Merriweather'
rel='stylesheet'>
<link href='https://fonts.googleapis.com/css?family=Josefin+Sans'
rel='stylesheet'>
<link href='https://fonts.googleapis.com/css?family=Montserrat'
rel='stylesheet'>
<style>
.header {
top:0;
margin:0px;
left: 0px;
right: 0px;
position: fixed;
background-color: #28272c;
color: white;
box-shadow: 0px 8px 4px grey;
overflow: hidden;
padding-left:10px;
font-family: 'Josefin Sans';
font-size: 2vw;
width: 100%;
height:8%;
text-align: left;
}
.topnav {
overflow: hidden;
background-color: #333;
}
.topnav-right a {
float: left;
color: #f2f2f2;
text-align: center;
padding: 14px 14px;
text-decoration: none;
```

```

font-size: 18px;
}
.topnav-right a: hover {
background-color: #ddd;
color: black;
}
.topnav-right a.active {
background-color: #565961;
color: white;
}
.topnav-right {
float: right;
padding-right: 50px;
}
.login{
margin-top: -70px;
}
body {
background-color: #ffffff;
background-repeat: no-repeat;
background-size: cover;
background-position: 0px 0px;
}
.login{
margin-top: 50px;
}
form {border: 0px solid #f1f1f1; margin-left: 400px; margin-
right: 200px;}
input[type=text],
input[type=email],input[type=number],input[type=password] {
width: 50%;
padding: 12px 12px;
display: inline-block;
margin-bottom: 18px;
border: 10px solid #ccc;
box-sizing: border-box;
}
button {
background-color: #28272c;
color: white;
padding: 14px 20px;
margin-bottom: 8px;
border: none;
cursor: pointer;
width: 50%;
font-weight: bold;
}
button:hover {
opacity: 0.8;
}
.cancelbtn {
width: auto;
padding: 10px 18px;
background-color: #f44336;
}
.imgcontainer {
text-align: left;
margin: 24px 0 12px 0;

```

```

}
img.avatar {
width: 30%;
border-radius: 20%;
}
.container {
padding:10px;
background-color:pink;
margin:auto auto;
}
span.psw {
float: right;
padding-top: 16px;
}
/* Change styles for span and cancel button on extra small screens*/
@media screen and (max-width: 300px) {
span.psw {
display: block;
float: none;
}
.cancelbtn {
width: 50%;
}
}
</style>
</head>
<body style="font-family:Montserrat;">
<div class="header">
<div style="width:50%;float:left;font-size:2vw;text-align:left;color:white; padding-top:1%">Virtual
Eye</div><div class="topnav-right" style="padding-top:0.5%;">
<a href="{{ url_for('index')}}">Home</a>
<a class="active" href="{{ url_for('login')}}">Login</a>
<a href="{{ url_for('register')}}">Register</a>
</div>
</div>
<div id="login" class="login">
<form action="{{url_for('afterlogin')}}" method="post"><div
class="imgcontainer">

</div>
<div class="container">
<input type="email" placeholder="Enter registered email ID" name="_id"
required><br>
<input type="password" placeholder="Enter Password" name="psw"
required>
<button type="submit">Login</button><br>
</div>
</form>
</div>
</body>
</html>

```

base.html

```
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial- scale=1.0">
<meta http-equiv="X-UA-Compatible" content="ie=edge">
<title>High Quality Facial Recognition</title>
<link href="https://cdn.bootcss.com/bootstrap/4.0.0/css/bootstrap.min.
css" rel="stylesheet">
<script src="https://cdn.bootcss.com/popper.js/1.12.9/umd/popper.min.j
s"></script>
<script
src="https://cdn.bootcss.com/jquery/3.3.1/jquery.min.js"></script
>
<script
src="https://cdn.bootcss.com/bootstrap/4.0.0/js/bootstrap.min.js
"></script>
<link href="{{ url_for('static', filename='css/main.css') }}"
rel="stylesheet">
<style>
.bg-dark {
background-color: #42678c!important;
}
#result {
color: #0alc4ed1;
}
</style>
</head>
<body style="background-color:black;">
<header id="head" class="header">
<section id="navbar">
<h1 class="nav-heading"></i>Virtual Eye</h1>
<div class="nav--items">
<ul>
<li><a href="{{ url_for('index') }}">Home Page</a></li>
<li><a
href="{{ url_for('logout') }}">Sign out</a></li>
<!-- <li><a href="#about">About</a></li>
<li><a href="#services">Services</a></li> -->
</ul>
</div>
</section>
</header>
<div class="container">
<div id="content" style="margin-top:2em">
<div class="container">
<div class="row">
<div class="col-sm-6 bd" >
<h2><em style="color:green;">STUDYING THE BODY PATTERN TO DETECT
ACTIVE DROWNING</em></h2>
<br>
<p><h3><B style="color:green;">VirtualEye - Life Guard for Swimming
Pools to Detect Active Drowning</B></h3></p>

</div>
<div class="col-sm-6">
<div>
<h4 style="color:green;">Upload
Image Here</h4>
<form action = "http://localhost:5000/" id="upload-file" method="post"
enctype="multipart/form-data">
<label for="imageUpload" class="uploadlabel">
Choose File
</label>
<input type="file" name="image"
id="imageUpload" accept=".png, .jpg, .jpeg, .pdf">
</form>
<div class="image-section" style="display:none;">
<div class="img-preview">
<div id="imagePreview">
</div>
</div>
<div>
<button type="button" class="btn btn- info btn-lg " id="btn-
predict">Analyse</button>
</div>
</div>
<div class="loader" style="display:none;"></div>
</body>
</div>
</div>
</div>
<footer>
<script src="{ url_for('static', filename='js/main.js') }"
type="text/javascript"></script>
</footer>

```

logout.html

```

<!DOCTYPE html>
<html >
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial- scale=1">
<title>Virtual Eye</title>
<link href='https://fonts.googleapis.com/css?family=Pacifico'
rel='stylesheet' type='text/css'>
<link href='https://fonts.googleapis.com/css?family=Arimo'
rel='stylesheet' type='text/css'>
<link href='https://fonts.googleapis.com/css?family=Hind:300'
rel='stylesheet' type='text/css'>
<link href='https://fonts.googleapis.com/css?family=Open+Sans+Conde
nsed:300' rel='stylesheet'
type='text/css'>
<link href='https://fonts.googleapis.com/css?family=Merriweather'
rel='stylesheet'>

```



```

<link href='https://fonts.googleapis.com/css?family=Josefin+Sans'
rel='stylesheet'>
<link href='https://fonts.googleapis.com/css?family=Montserrat'
rel='stylesheet'>
<style>
.header {
top:0; margin:0px;
left: 0px; right: 0px;
position: fixed;
background-color: #28272c; color: white;
box-shadow: 0px 8px 4px grey; overflow: hidden;
padding-left:20px;
font-family: 'Josefin Sans'; font-size: 2vw;
width: 100%; height:8%;
text-align: center;
}
.topnav { overflow: hidden; background-color: blue;
}
.topnav-right a { float: left; color: #f2f2f2;
text-align: center; padding: 14px 16px; text-decoration: none; font-
size: 18px;
}
.topnav-right a:hover { background-color: blue; color: blue;
}
.topnav-right a.active { background-color: #565961; color: white;
}
.topnav-right { float: right;
padding-right:100px;
}
.login{
margin-top:-70px;
}
body {
background-color:#ffffff; background-repeat: no-repeat; background-
size:cover; background-position:
0px 0px;
}
.main{
margin-top:100px; text-align:center;
}
form { margin-left:400px;margin-right:400px;}
input[type=text],
input[type=email],input[type=number],input[type=password] { width:
100%;
padding: 12px 20px; display: inline-block; margin-bottom:18px; border:
1px blue;
box-sizing: border-box;
}
button {
background-color: blue; color: white;
padding: 14px 20px; margin-bottom:8px; border: none; cursor: pointer;
width: 20%;
}
button:hover { opacity: 0.8;
}
.cancelbtn { width: auto;
padding: 10px 18px; background-color: #f44336;
}

```

```

.imgcontainer { text-align: center;
margin: 24px 0 12px 0;
}
img.avatar { width: 30%;
border-radius: 50%;
}
.container { padding: 16px;
}
span.psw { float: right;
padding-top: 16px;
}
/* Change styles for span and cancel button on extra small screens
*/
@media screen and (max-width: 300px) { span.psw {
display: block; float: none;
}
.cancelbtn { width: 100%;
}
}
</style>
</head>
<body style="font-family:Montserrat;">
<div class="header">
<div style="width:50%;float:left;font-size:2vw;text-align:left;color:white; padding-top:1%">Virtual
eye</div>
<div class="topnav-right" style="padding-top:0.5%;">
<a href="{{ url_for('home')}}">Home</a>
<a href="{{ url_for('login')}}">sign in</a>
<a href="{{ url_for('register')}}">Register</a>
</div>
</div>
<div class="main">
<h1>Successfully Signed Out!</h1>
<h3 style="color:#4CAF50">Signin for more information<h3>
<a href="{{ url_for('login') }}"><button type="submit">Sign
in</button></a>
</form>
</div>
</body>
</html>

```

prediction.html

```

<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<!--Bootstrap -->
<link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/boo
tstrap.min.css"
integrity="sha384- Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGg
FAW/dAiS6JXm" crossorigin="anonymous">

```

```

<script src="https://code.jquery.com/jquery-3.2.1.slim.min.js"
integrity="sha384-
KJ3o2DKtIkvYIK3UENzmM7KCKRr/rE9/Qpg6aAZGJwFDMVNA/GpG FF93hXpG5KkN"
crossorigin="anonymous"></script>
<script
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/
popper.min.js"
integrity="sha384-
ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPsk
vXusvfa0b4Q" crossorigin="anonymous"></script>
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootst
rap.min.js" integrity="sha384-
JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpilMquVdAyjUar5
+76PVCmYl" crossorigin="anonymous"></script>
<script src="https://kit.fontawesome.com/8b9cdc2059.js"
crossorigin="anonymous"></script>
<link href="https://fonts.googleapis.com/css2?family=Akronim&family=
Roboto&display=swap"
rel="stylesheet">
<link rel="stylesheet" href="../../static/style.css">
<link rel="stylesheet"
href="C:\Users\ELCOT\Documents\ibmhtml\colors.css" type="text/css">
<script defer src="../../static/js/JScript.js"></script>
<title>Prediction</title>
</head>
<body>
<header id="head" class="header">
<section id="navbar">
<h1 class="nav-heading"></i>Virtual Eye</h1>
<div class="nav--items">
<ul>
<li><a href="{{ url_for('index') }}">Home Page</a></li>
<li><a
href="{{ url_for('logout') }}">Sign out</a></li>
<!-- <li><a href="#about">About</a></li>
<li><a href="#services">Services</a></li> -->
</ul>
</div>
</section>
</header>
<!-- dataset/Training/metal/metal326.jpg -->
</br>
<section id="prediction">
<h2 class="title text-muted">Virtual Eye- Life Guard for Swimming Pools
to Detect Active Drowning</h1>
<div class="line" style="width: 900px;"></div>
</section>
</br>
<section id="about">
<div class="body">
<div class="left">
<p class="kee">
Swimming is one of the best exercises that helps people to reduce
stress in this urban lifestyle.
Swimming pools are found larger in number in hotels, and weekend
tourist spots and barely people have them in their house backyard.

```

Beginners, especially, often feel it difficult to breathe underwater which causes breathing trouble which in turn causes a drowning accident.

Worldwide, drowning produces a higher rate of mortality without causing injury to children.

Children under six of their age are found to be suffering the highest drowning mortality rates worldwide.

Such kinds of deaths account for the third cause of unplanned death globally, with about 1.2 million cases yearly.

To overcome this conflict, a meticulous system is to be implemented along the swimming pools to save human life.

By studying body movement patterns and connecting cameras to artificial intelligence (AI) systems we can devise an underwater pool safety system that reduces the risk of drowning.

Usually, such systems can be developed by installing more than 16 cameras underwater and ceiling and analyzing the video feeds to detect any anomalies.

but AS a POC we make use of one camera that streams the video underwater and analyses the position of swimmers to assess the probability of drowning, if it is higher then an alert will be generated to attract lifeguards' attention.

</p>

</div>

<div class="left">

<div class="prediction-input">

</br>

<form id="form" action="/result" method="post" enctype="multipart/form-data">

<input type="submit" class="submitbtn" value="Click here to the first Trial">

</form>

</div>

<h5 style="text-color:Red">

</h5>

</div>

</div>

</section>

</br></br>

<section id="footer">

<p>Thanks for the opportunity to create this project</p>

</section>

</body>

</html>