

Project Development Phase

Sprint-2 Source Code

Team ID	PNT2022TMID30704
Project Name	Virtual Eye - Life Guard for Swimming Pools to Detect Active Drowning
Maximum Marks	8 Marks

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.js"></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: #0a1c4ed1;
    }
  </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="C:\Users\chekri\Documents\IBM\Project\Project\VirtualEye - Life Guard
for Swimming Pools to Detect Active Drowning\index.html">Home</a></li>
        <li><a
href="C:\Users\chekri\Documents\IBM\Project\Project\VirtualEye - Life Guard
for Swimming Pools to Detect Active Drowning\logout.html">Logout</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:white;">High Quality Facial
Recognition</em></h2>
                    <br>
                    <p>
                        <h5><i style="color:white;">Emotion Detection Through
Facial Feature Recognition</i></h5>
                    </p>
                    
                    </div>
                    <div class="col-sm-6">
                        <div>
                            <h4 style="color:white;">Upload Image Here</h4>
                            <form action="http://localhost:5000/" id="upload-
file" method="post"
                                enctype="multipart/form-data">
                                <label for="imageUpload" class="upload-label">
                                    Choose Image
                                </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>

    <h3>
        <span id="result"> </span>
    </h3>

    </div>
</div>

    </div>
</div>
</div>
</div>
</body>

<footer>
    <script src="{{ url_for('static', filename='js/main.js') }}"
type="text/javascript"></script>
</footer>

</html>

```

Index.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/bootstrap.min.css"
integrity="sha384-
Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm"
crossorigin="anonymous">
    <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js"
integrity="sha384-

```

```

KJ3o2DKtIkvYIK3UENzmM7KCKRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN"
crossorigin="anonymous"></script>
  <script
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js
" integrity="sha384-
ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"
crossorigin="anonymous"></script>
  <script
src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"
integrity="sha384-
JZR6Spejh4U02d8j0t6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+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="C:\Users\chekri\Documents\IBM\My Github\IBM-
Project-51049-1660968545\6.PROJECT DEVELOPMENT PHASE\Sprint-
II\Index\style.css">
  <!-- <script defer src="../static/js/main.js"></script> -->
  <title>Virtual Eye</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="C:\Users\chekri\Documents\IBM\Project\Project\VirtualEye - Life Guard for Swimming Pools to Detect Active Drowning\index.html">Home</a></li>
        <li><a href="C:\Users\chekri\Documents\IBM\My Github\IBM-Project-51049-1660968545\6.PROJECT DEVELOPMENT PHASE\Sprint-I\Login\login.html">Login</a></li>
        <li><a href="C:\Users\chekri\Documents\IBM\My Github\IBM-Project-51049-1660968545\6.PROJECT DEVELOPMENT PHASE\Sprint-I\Register\register.html">Register</a></li>
        <li><a href="C:\Users\chekri\Documents\IBM\My Github\IBM-Project-51049-1660968545\6.PROJECT DEVELOPMENT PHASE\Sprint-I\Login\login.html">Demo</a></li>
      </ul>
    </div>
  </section>
  <section id="slider">
    <div id="carouselExampleIndicators" class="carousel" data-ride="carousel">

```

```

        <ol class="carousel-indicators">
            <li data-target="#carouselExampleIndicators" data-slide-to="0"
class="active"></li>
            <li data-target="#carouselExampleIndicators" data-slide-
to="1"></li>
            <li data-target="#carouselExampleIndicators" data-slide-
to="2"></li>
        </ol>
        <div class="carousel-inner">

            <div class="carousel-item active">
                
            </div>
            <div class="carousel-item">
                
            </div>
            <div class="carousel-item">
                
            </div>
        </div>
        <a class="carousel-control-prev" href="#carouselExampleIndicators"
role="button" data-slide="prev">
            <span class="carousel-control-prev-icon" aria-
hidden="true"></span>
            <span class="sr-only">Previous</span>
        </a>
        <a class="carousel-control-next" href="#carouselExampleIndicators"
role="button" data-slide="next">
            <span class="carousel-control-next-icon" aria-
hidden="true"></span>
            <span class="sr-only">Next</span>
        </a>
    </div>

</section>
</header>
<section id="about">
    <div class="top">
        <h3 class="title text-muted">
            ABOUT PROJECT

```

```

        </h3>
        <div class="line"></div>
    </div>
<div class="body">
<div class="left">
    <h2>Problem:</h2>
    <p>
        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
        the hotels, weekend tourist spots and barely people have in their house
        backyard. Beginners, especially often feel it difficult to breathe under water
        and causes breathing trouble which in turn cause 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.

    </p>
</div>
<div class="left">
    <h2>Solution:</h2>
    <p>
        To overcome the conflict, a meticulous system is to be implemented
        along the swimming pools to save the human life. By studying body movement
        patterns and connecting cameras to an artificial intelligence (AI)system 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 analysing 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 than an alert will be generated to attract
        lifeguards attention.

    </p>
</div>
</div>
<div class="bottom">
    <p ><b>
        Note : The system is not designed to replace a lifeguard or other
        human monitor, but to act as an additional tool. "It helps the lifeguard to
        detect the underwater situation where they can't easily observe.

    </b></p>

</div>
</section>

<section id="footer">

```

```

    <p>Copyright © 2021. All Rights Reserved</p>
    <div class="social">
      <a href="#" target="_blank"><i class="fab fa-2x fa-twitter-square"></i></a>
      <a href="#" target="_blank">
        <i class="fab fa-2x fa-linkedin"></i></a>
      <a href="#">
        <i class="#"></i>
      </a>
    </div>
  </section>
</body>
</html>

```

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+Condensed: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: #333;
    }

    .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: #ddd;
        color: black;
    }

    .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 solid #ccc;
box-sizing: border-box;
}

button {
background-color: #28272c;
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')}}">Login</a>
    <a href="{{ url_for('register')}}">Register</a>
  </div>
</div>
<div class="main">
<h1>Successfully Logged Out!</h1>
<h3 style="color:#4CAF50">Login for more information<h3>

  <a href="{{ url_for('login') }}"><button type="submit">Login</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, initialscale=1.0">
  <!--Bootstrap -->
  <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css"
  integrity="sha384-
Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm"
crossorigin="anonymous">
  <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js"
  integrity="sha384-
KJ3o2DKtIkVYIK3UENzmM7KCKRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN"
  crossorigin="anonymous"></script>
  <script
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js"
"
  integrity="sha384-
ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"
  crossorigin="anonymous"></script>
  <script
src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"
integrity="sha384-
JZR6Spejh4U02d8j0t6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5
+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=s
wap" rel="stylesheet">
  <link rel="stylesheet"
  href="C:\Users\chekri\Documents\IBM\My Github\IBM-Project-51049-
1660968545\6.PROJECT DEVELOPMENT PHASE\Sprint-II\Prediction\style.css">
  <script defer
  src="C:\Users\chekri\Documents\IBM\My Github\IBM-Project-51049-
1660968545\6.PROJECT DEVELOPMENT PHASE\Sprint-
II\Prediction\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="C:\Users\chekri\Documents\IBM\Project\Project\VirtualEye - Life Guard for Swimming Pools to Detect Active Drowning\index.html">Home</a>
    </li>
    <li><a
        href="C:\Users\chekri\Documents\IBM\Project\Project\VirtualEye - Life Guard for Swimming Pools to Detect Active Drowning\logout.html">Logout</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>
                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 the hotels, weekend tourist spots and barely people have in their house backyard. Beginners, especially often feel it difficult to breathe under water and causes breathing trouble which in turn cause 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 of deaths account for the third cause of unplanned death globally, with about 1.2 million cases yearly.
            </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 Me! For a Demo">
</form>
</div>
<h5 style="text-color:Red">
    <b style="text-color:Red">{{prediction}}<b>
</h5>
</div>
</div>
</section>
</br></br>
<section id="footer">
    <p>Copyright © 2021. All Rights Reserved</p>
</section>
</body>
</html>
```