

# Project Development Phase

## Sprint-2 Source Code

|               |  |
|---------------|--|
| Date          | 09 November 2022   |
| Team ID       | PNT2022TMID28664   |
| Project Name  | Virtual Eye - Life Guard for<br>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="uploadfile" 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>
</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-
JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+76PVCmYI"
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\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\Vi rtualEye - 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>
<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-twittersquare"></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+058RXPxPg6fy4IWvTNh0E263XmFcJISAwIGgFAW/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-
JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5
+76PVCmYI" 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\JScrip.js"></script>
  <title>Prediction</title>
</head>

<body>
  <header id="head" class="header">
    <section id="navbar">
      <h1 class="nav-heading"><i>Virtual Eye</i></h1>
      <div class="nav--items">
        <ul>
          <li><a

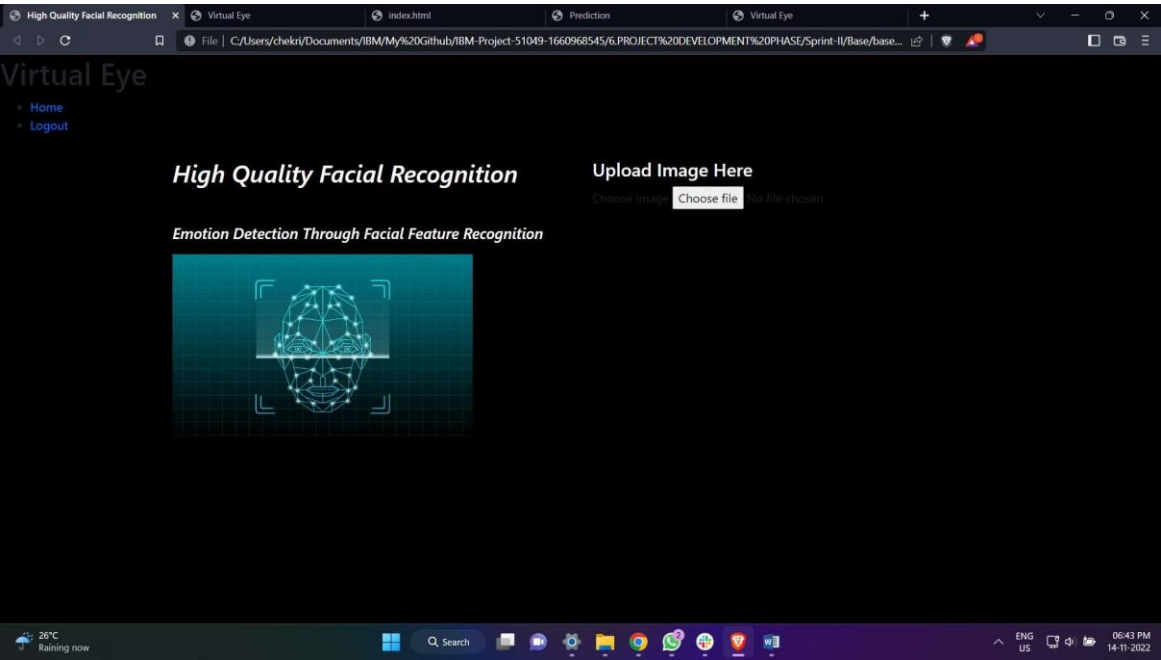
```

```

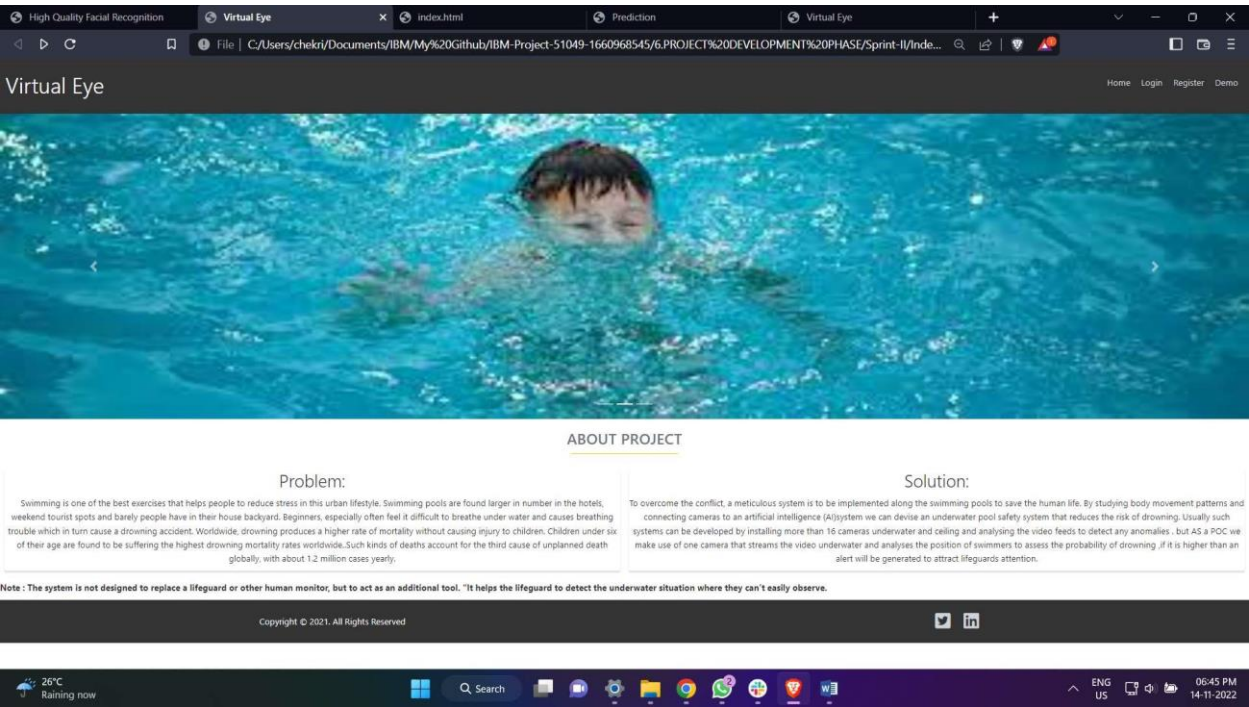
                href="C:\Users\chekri\Documents\IBM\Project\Projec t\VirtualEye - Life Guard for
Swimming Pools to Detect Active
Drowning\index.html">Home</a>
            </li>
            <li><a
href="C:\Users\chekri\Documents\IBM\Project\Projec t\VirtualEye - Life Guard for Swimming Pools to
Detect Active
Drowning\logout.html">Logout</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 Â© 2021. All Rights Reserved</p>
</section>
</body>
</html>
```



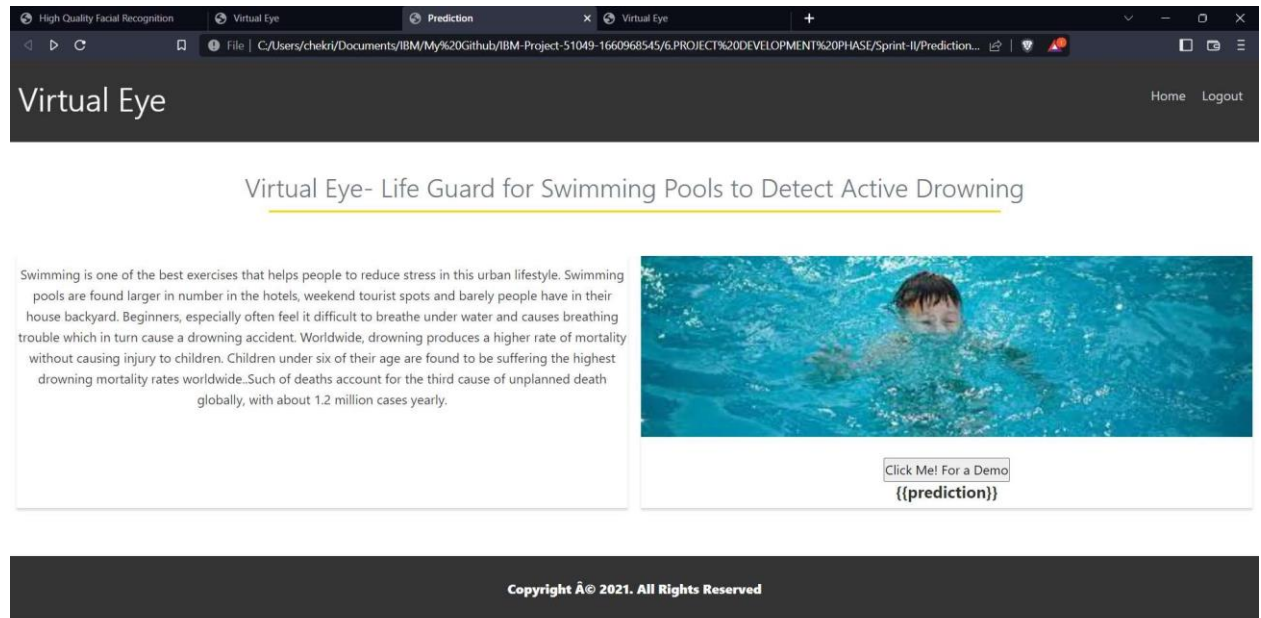
BASE.Html :



Index.html:



## Prediction.html:



## Logout.html:

