HTML pages:

CODE:
dashboard.html:

```html
<head>
<title>Dashboard analysis</title>
<link rel="stylesheet" href="{{ url_for('static', filename='des.css') }}">
</head>
<body>
<div class="topnav">
<a href="{{ url_for('formm')}}">Predict</a>
<a href="{{ url_for('home')}}">Logout</a>
</div>

<h1 style="text-align:center;">Flight Delay Dashboard</h1>

<div class="row">
  <div class="column">
    <img class="img1" src="{{url_for('static', filename='relation.jpg')}}"/>
    <figcaption>This graph shows the delay in arrival vs the delay in departure.
```

```html
    Therefore it can be inferred that flights that have delayed departure will have a delayed
arrival.
    </figcaption>
  </div>
  <div class="column">
    <img class="img2" src="{{url_for('static', filename='corr.jpg')}}"/>
    <figcaption>This heatmap depicts the correlation between the different columns of data
     in the dataset. As we can see there is a high correlation between arr_delay and dep_delay
      as we have previously inferred.
    </figcaption>
  </div>
</div>
<br><br>
<div class="row">
  <div class="column">
    <img class="img1" src="{{url_for('static', filename='dom.jpg')}}"/>
    <figcaption>This graph shows the delay in different days across the month. There is no
    explicit pattern that can be concluded from the data. Therefore, flight delay may occur at
anytime of the month.</figcaption>
  </div>
  <div class="column">
    <img class="img2" src="{{url_for('static', filename='reason.jpg')}}"/>
    <figcaption>The bar graph shows the different reasons due to which flight delay occurs. The
main reason behind flight delays are weather conditions. Since weather could be unpredictable
at times,
    we need a reliable source of delay prediction.</figcaption>
  </div>
</div>
<br><br>
<div class="row">
  <div class="column">
    <img class="img1" src="{{url_for('static', filename='dow.jpg')}}"/>
    <figcaption>This figure shows the delay during different stages of the week. Again, there is no
    specific pattern that can be derived that can be used to predict delays. Therefore flight delay
can occur at anytime/anyday. This calls for the need for a reliable weather prediction
model.</figcaption>
  </div>
  <div class="column">
    <img class="img2"  src="{{url_for('static', filename='rf.jpg')}}"/>
    <figcaption>This shows the confusion matrix of the model we are going to use to predict flight
    delays: Random Forest Model. The best model possible from the given dataset was found to
be
    Random Forest with an accuracy of about 84%.</figcaption>
  </div>
```
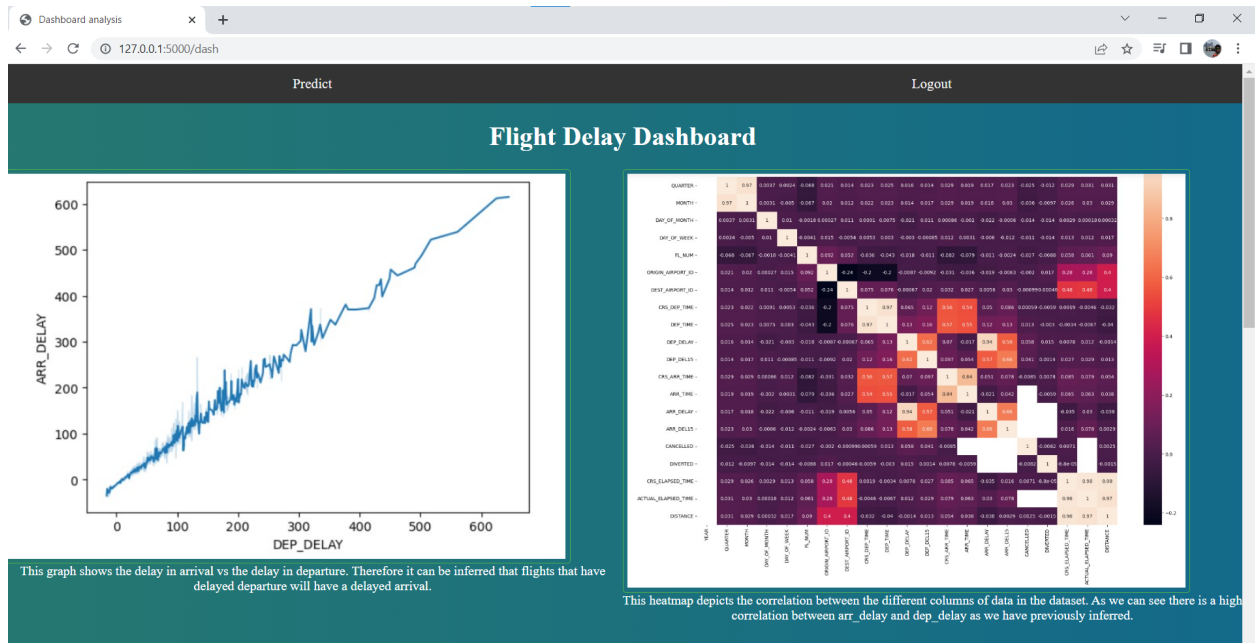
```html
</div>
</form>
</body>
</html>
```


login.html:

```html
<!DOCTYPE html>
<html>
<head>
<link rel="stylesheet" href="{{ url_for('static', filename='des.css') }}">
<meta name="viewport" content="width=device-width, initial-scale=1">
</head>
<body>
<br>
<h2 style="text-align:center;">A Flight Delay Prediction Model</h2>
<form action="{{ url_for('dashh')}}" method="POST">
  <div class="imgcontainer">
    <img class="avatar" src="{{url_for('static', filename='flight.jpg')}}" />
  </div>

  <div class="container">
    <label for="uname"><b>Username</b></label>
    <input type="text" placeholder="Enter Username" name="uname" required>

    <label for="psw"><b>Password</b></label>
    <input type="password" placeholder="Enter Password" name="psw" required>
```
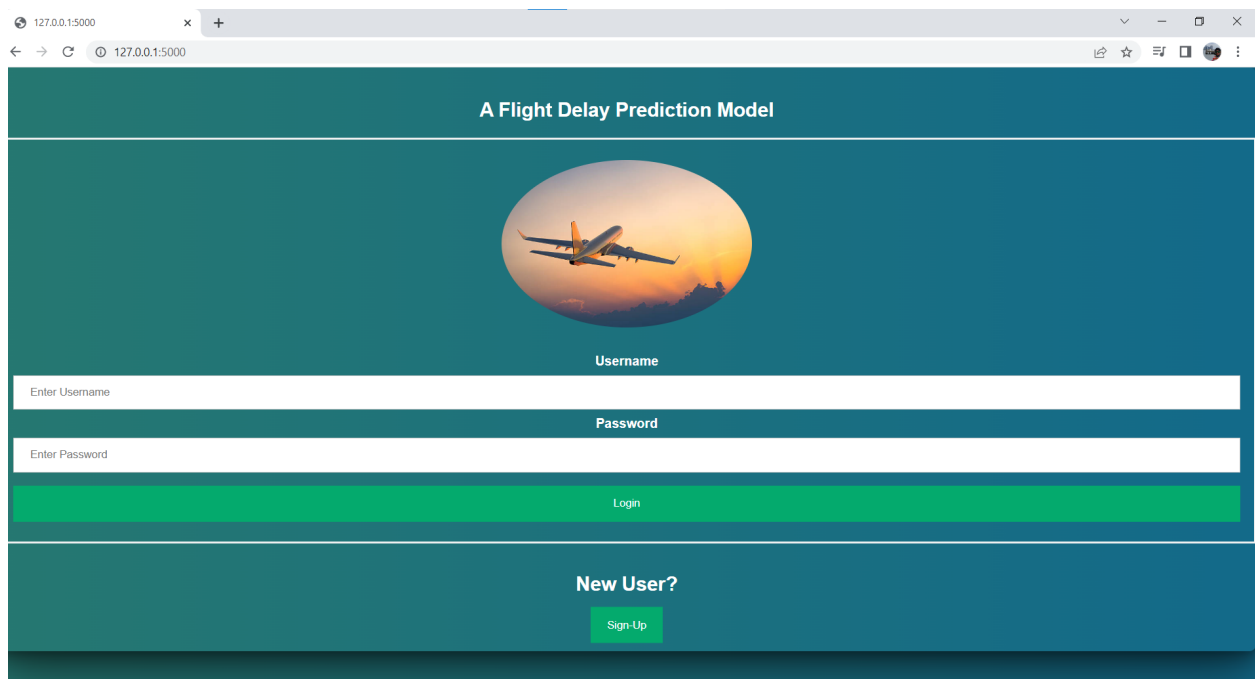
```html
        <button type="submit">Login</button>
</form>
  </div>


  <div class="container">
  <h2 style="text-align:center;">New User?</h2>
  <div class="container">
  <div class="center">


  <form style="border:none;" action="{{ url_for('sign')}}">
    <button type="submit">Sign-Up</button>
  </form>
  </div>
</div>
 </div>
</body>
</html>
```


pred.html: (displays the result of the prediction)

```html
<html>
<head></head>
<link rel="stylesheet" href="{{ url_for('static', filename='des.css') }}">
<body>
<div class="topnav">
```

```html
<a href="{{ url_for('dashh')}}">Dashboard</a>
<a href="{{ url_for('home')}}">Logout</a>
</div>
<h2 style="text-align:center;">Flight Delay Prediction Model</h2>
<br><br>
<h1 style="text-align:center;">{{prediction_text}}</h1>
</body>
</html>
```
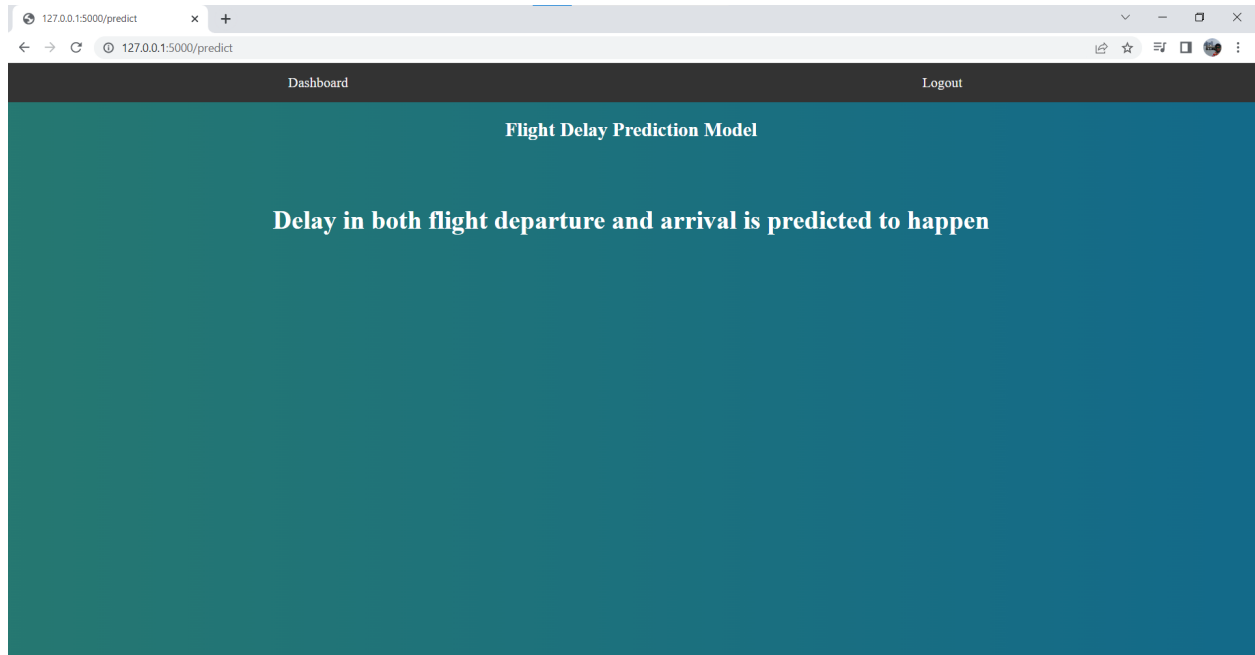

signup.html:

```html
<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
<link rel="stylesheet" href="{{ url_for('static', filename='des.css') }}">
</head>
<body>
<br>
<h2 style="text-align:center;">Create an account</h2>
<form action="{{ url_for('home')}}" method="POST">

  <div class="container">
    <label for="em"><b>Enter Email address</b></label>
    <input type="email" placeholder="Enter an email address" name="em" required>

    <label for="unme"><b>Enter a Username</b></label>
```

```html
      <input type="text" placeholder="Enter a Username" name="unme" required>

      <label for="pswd"><b>Enter a Password</b></label>
      <input type="password" placeholder="Enter a Password" name="pswd" required>

      <button type="submit">Create</button>
    </div>
    </div>
</div>
    </div>
</form>
</body>
</html>
```


summa.html: (used as the primary form for prediction)
```html
<!DOCTYPE html>
<html >
<!--From https://codepen.io/frytyler/pen/EGdtg-->
<head>
  <meta charset="UTF-8">
  <title>ML API</title>
</head>
<link rel="stylesheet" href="{{ url_for('static', filename='des.css') }}">
<body>
<div class="topnav">
<a href="{{ url_for('dashh')}}">Dashboard</a>
```

```
<a href="{{ url_for('home')}}">Logout</a>
</div>
<h1 style="text-align:center;">Flight Delay Prediction Model</h1>
 <div class="chill">


   <!-- Main Input For Receiving Query to our ML -->
   <form action="{{ url_for('predict')}}" method="post">
     Month:<br><input type="number" name="month" placeholder="Ex:6" required="required"
min='1' max='12'/><br>
         Day of the Month:<br> <input type="number" name="daym" placeholder="Ex:25"
required="required" min='1' max='31'/><br>
         Day of the week:<br> <input type="number" name="dayw" placeholder="Ex:2"
required="required" min='1' max='7'/><br>
     Flight Number: <br><input type="number" name="fnum" placeholder="Ex:2560"
required="required" max="9999"/><br>


         Origin Airport:<br> <select name="airport" class="origin">
   <option value='1'>ATL</option>
   <option value='2'>DWT</option>
   <option value='3'>JFK</option>
   <option value='4'>MSP</option>
   <option value='5'>SEA</option>
       </select><br><br>
       Destination Airport: <br><select name="airportd" class="dest">
   <option value='1'>ATL</option>
   <option value='2'>DWT</option>
   <option value='3'>JFK</option>
   <option value='4'>MSP</option>
   <option value='5'>SEA</option>
       </select><br><br>
       Planned Departure Time: <br><input type="number" name="dtime"
placeholder="Ex:1894(HHMM)" required="required" max="9999"/><br>
       Planned Arrival Time: <br><input type="number" name="atime"
placeholder="Ex:1600(HHMM)" required="required" max="9999"/><br>
       Estimated Traveling Time(mins):<br> <input type="number" name="ttime"
placeholder="Ex:197" required="required" max="9999"/><br>
     <button type="submit" class="btn btn-primary btn-block">Predict</button>
   </form>

  <br>
  <br>
  {{ prediction_text }}
  <br>
```

```
    <br>
    <br>
  </div>


</body>
</html>
```


des.css:
```css
input[type=text],input[type=email], input[type=password] {
  width: 100%;
  padding: 12px 20px;
  margin: 8px 0;
  display: inline-block;
  border: 1px solid #ccc;
  box-sizing: border-box;
}

button {
  background-color: #04AA6D;
  color: white;
  padding: 14px 20px;
  margin: 8px 0;
  border: none;
  cursor: pointer;
  width: 100%;
}
```

```css
button:hover {
  opacity: 0.8;
}

.cancelbtn {
  width: auto;
  padding: 10px 18px;
  background-color: #f44336;
  float: center;
}

.imgcontainer {
  text-align: center;
  margin: 24px 0 12px 0;
}

img.avatar {
  width: 20%;
  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;
  }
}
.contain {
  height: 200px;
  position: relative;
  border: 3px solid green;
}
```

```css
.center {
  margin: 0;
  position: absolute;
  left: 50%;
  -ms-transform: translate(-50%, -50%);
  transform: translate(-50%, -50%);
}

.bod {
  background: #094d90;
  font-family: Assistant, sans-serif;
  display: flex;
  min-height: 90vh;
}
body {
  color: white;
 background: #136a8a;
  background:
    linear-gradient(to right, #267871, #136a8a);
  margin: auto;
  box-shadow:
    0px 2px 10px rgba(0,0,0,0.2),
    0px 10px 20px rgba(0,0,0,0.3),
    0px 30px 60px 1px rgba(0,0,0,0.5);
  border-radius: 8px;
  text-align: center;
}

.h1{
text-align: center;
}

.topnav {
  background-color: #333;
  overflow: hidden;
}

/* Style the links inside the navigation bar */
.topnav a {
  float: left;
  color: #f2f2f2;
  text-align: center;
  padding: 14px 16px;
  text-decoration: none;
```

```css
  font-size: 17px;
  min-width:727px;
}

/* Change the color of links on hover */
.topnav a:hover {
  background-color: #4CAF50;
  color: black;
}

/* Add a color to the active/current link */
.topnav a.active {
  background-color: #04AA6D;
  color: white;
}

img{
    border-radius:8px;
    display: block;
    border: 1px solid #4CAF50;
    border-radius: 4px;
    padding: 5px;
    width:90%;
}

.column {
  float: left;
  width: 50%;
}

/* Clear floats after image containers */
.row::after {
  content: "";
  clear: both;
  display: table;
}
```