# Development Phase Sprint 2 delivery

Date	18 November 2022
Team ID	PNT2022TMID21553
Project Name	Project – Car Resale Value Prediction

## Sprint 2:

The front-end to get the user inputs are created using HTML and CSS.

These inputs will then be used by the ML model for prediction.

#### Code:

### carPrice.html:

```
<!DOCTYPE html>
<html lang="en">
<head xmlns="http://www.w3.org/1999/xhtml">
  <meta charset="UTF-8">
  <title>Car Price Prediction</title>
  <link rel="stylesheet" href="static/css/style.css">
  <link rel="stylesheet" type="text/css"</pre>
     href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.11.2/css/all.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>
  <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.js"</pre>
      integrity="sha384-
Q6E9RHvblyZFJoft+2mJbHaEWldlvI9IOYy5n3zV9zzTtmI3UksdQRVvoxMfooAo"
      crossorigin="anonymous"></script>
  k rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/css/bootstrap.min.css"
     integrity="sha384-
9alt2nRpC12Uk9gS9baDl411NQApFmC26EwAOH8WgZl5MYYxFfc+NcPb1dKGj7Sk"
crossorigin="anonymous">
  <script
src="https://cdn.jsdelivr.net/npm/@tensorflow/tfjs@2.0.0/dist/tf.min.js"></script>
</head>
<body class="bg-dark">
  <div class="container">
```

```
<input type="checkbox" id="flip">
          <div class="cover">
              <div class="front">
                   <img src="static/res/car.jpg" alt="">
                   <div class="text">
                        <span class="text-1">Just One More Car <br> I Promise</span>
                   </div>
              </div>
         </div>
         <div class="container">
              <div class="forms">
                   <div class="form-content">
                        <div class="login-form">
                             <div class="title">Car Price Prediction</div>
                             <form name="form1" method="post" action="#" accept-charset="utf-8">
                                  <div class="input-boxes">
                                       <div class="col-md-10 form-group" style="text-align: center">
                                            <label><b>Enter the Registration Year:</b> </label><br>
                                            <input required type="number" min="1900" class="form-control"</pre>
id="reg_year" name="reg_year" placeholder="Enter the Registration Year ">
                                       </div>
                                       <div class="col-md-10 form-group" style="text-align: center">
                                            <label><b>Select the Registration Month:</b> </label><br>
                                            <select required class="selectpicker form-control" id="reg_month"</pre>
name="reg month" >
                                                 {% for month in months %}
                                                 <option value="{{ month }}">{{ month }}</option>
                                                 {% endfor %}
                                            </select>
                                       </div>
                                       <div class="col-md-10 form-group" style="text-align: center">
                                            <label><b>Enter the Power of Car in PS:</b> </label><br>
                                            <input required type="number" min="0" class="form-control"</pre>
id="car_power" name="car_power" placeholder="Enter the Power of Car in PS ">
                                       </div>
                                       <div class="col-md-10 form-group" style="text-align: center">
                                            <a href="label"><a href="label
travelled:</b> </label><br>
                                            <input required type="number" min="0" class="form-control"</pre>
id="kilo_driven" name="kilo_driven" placeholder="Enter the kilometres driven ">
                                       </div>
```

```
<div class="col-md-10 form-group" style="text-align: center">
                   <label><b>Select the Gear Box Type:</b> </label><br>
                   <input type="radio" id="gt_id1" name="gear_type" value="manual"
checked> Manual  
                   <input type="radio" id="gt_id2" name="gear_type" value="automatic" >
Automatic  
                   <input type="radio" id="gt_id3" name="gear_type" value="not-
declared" > Not Declared
                 </div>
                 <div class="col-md-10 form-group" style="text-align: center">
                   <label><b>Your Car is damaged or repaired:</b> </label><br>
                   <input type="radio" id="dr id1" name="car condition" value="Yes" >
Yes  
                   <input type="radio" id="dr id2" name="car condition" value="No"
checked> No  
                   <input type="radio" id="dr id3" name="car condition" value="not-
declared" > Not Declared
                 </div>
                 <div class="col-md-10 form-group" style="text-align: center">
                   <label><b>Select the Model Type:</b> </label><br/>br>
                   <select required class="selectpicker form-control" id="model"</pre>
name="model" required="1">
                     {% for model in models %}
                     <option value="{{ model }}">{{ model }}</option>
                     {% endfor %}
                   </select>
                 </div>
                 <div class="col-md-10 form-group" style="text-align: center">
                   <label><b>Select the Brand of the Car:</b> </label><br>
                   <select required class="selectpicker form-control" id="brand"</pre>
name="brand" required="1">
                     {% for brand in brands %}
                     <option value="{{ brand }}">{{ brand }}</option>
                     {% endfor %}
                   </select>
                 </div>
                 <div class="col-md-10 form-group" style="text-align: center">
                   <label><b>Select the Fuel Type of Car:</b> </label><br>
                   <select required class="selectpicker form-control" id="fuel type"</pre>
name="fuel type" required="1">
                     {% for fuel type in fuel types %}
                     <option value="{{ fuel type }}">{{ fuel type }}</option>
                     {% endfor %}
```

```
</select>
                 </div>
                 <div class="col-md-10 form-group" style="text-align: center">
                    <label><b>Select the Vehicle Type of Car:</b> </label><br>
                    <select required class="selectpicker form-control" id="veh type"</pre>
name="veh_type" required="1">
                      {% for veh type in vehicle types %}
                      <option value="{{ veh_type }}">{{ veh_type }}</option>
                      {% endfor %}
                    </select>
                 </div>
                 <div class="col-md-10 form-group" style="text-align: center">
                    <button class="btn btn-primary form-control"</pre>
onclick="send_data()">Predict Price</button>
                 </div>
                 <div class="text sign-up-text">
                   <br> Go to HomePage :
                    <a href="{{url for('index')}}">Click Here..</a>
               </div>
             </form>
             <br>
             <div class="row">
               <div class="col-12" style="text-align: center">
                 <h4><span id="prediction"></span></h4>
               </div>
             </div>
           </div>
         </div>
      </div>
    </div>
  </div>
<script>
  function form handler(event) {
    event.preventDefault();
  function send data()
    if(document.forms["form1"]["reg_year"].value!="" &&
```

```
document.forms["form1"]["car power"].value!="" &&
document.forms["form1"]["kilo driven"].value!="")
      document.querySelector('form').addEventListener('submit',form handler);
      var fd=new FormData(document.querySelector('form'));
      var xhr= new XMLHttpRequest({mozSystem: true});
      xhr.open('POST','/c predict',true);
      document.getElementById("prediction").innerHTML="Wait! Predicting Price.....";
      xhr.onreadystatechange = function(){
        if(xhr.readyState == XMLHttpRequest.DONE){
          document.getElementById("prediction").innerHTML=""+xhr.responseText;
      xhr.onload= function(){};
      xhr.send(fd);
</script>
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"</pre>
    integrity="sha384-
DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"
    crossorigin="anonymous"></script>
<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.js"</p>
    integrity="sha384-
Q6E9RHvblyZFJoft+2mJbHaEWldlvI9IOYy5n3zV9zzTtmI3UksdQRVvoxMfooAo"
    crossorigin="anonymous"></script>
<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/js/bootstrap.min.js"</pre>
    integrity="sha384-
OgVRvuATP1z7JjHLkuOU7Xw704+h835Lr+6QL9UvYjZE3Ipu6Tp75j7Bh/kR0JKI"
    crossorigin="anonymous"></script>
</body>
</html>
```

### index.html:

```
</header>
      <video src="static/res/vidd.mp4" muted loop autoplay></video>
      <div class="overlay"></div>
      <div class="text">
      <h3>With difficult economic conditions </h3>
      <h2> it is likely that sales of second-hand cars will increase</h2>
      In most of the countries, it is common to lease a car rather than buying it
        outright. A lease is a binding contract between a buyer and a
        seller in which the buyer must pay fixed instalments for a pre-
        defined number of months/years to the seller/financer. After
        the lease period is over, the buyer has the possibility to buy the
        car at its residual value, i.e. its expected resale value. Thus, this
        application is of commercial interest to seller/financers to be
        able to predict the residual value of cars with accuracy.
      <a href="{{url_for('car_price')}}">Car Resale Price</a>
      </div>
      ul class="social">
      <a href="#"><img src="https://i.ibb.co/x7P24fL/facebook.png"></a>
      <a href="#"><img src="https://i.ibb.co/Wnxq2Nq/twitter.png"></a>
      <a href="#"><img src="https://i.ibb.co/ySwtH4B/instagram.png"></a>
      </section>
  </body>
</html>
```

### css\_home.css:

```
*

{
  margin: 0;
  padding: 0;
  box-sizing: border-box;
  font-family: 'Poppins', sans-serif;
}

header
{
  position: absolute;
  top: 0;
  left: 0;
  width: 100%;
  padding: 40px 100px;
  z-index: 1000;
  display: flex;
  justify-content: space-between;
  align-items: center;
```

```
header .logo
 color: #fff;
 text-transform: uppercase;
 cursor: pointer;
.toggle
 position: relative;
 width: 60px;
 height: 60px;
 background: url(https://i.ibb.co/HrfVRcx/menu.png);
 background-repeat: no-repeat;
 background-size: 30px;
 background-position: center;
 cursor: pointer;
.toggle.active
 background: url(https://i.ibb.co/rt3HybH/close.png);
 background-repeat: no-repeat;
 background-size: 25px;
 background-position: center;
 cursor: pointer;
.showcase
 position: absolute;
 right: 0;
 width: 100%;
 min-height: 100vh;
 padding: 100px;
 display: flex;
 justify-content: space-between;
 align-items: center;
 background: #111;
 transition: 0.5s;
 z-index: 2;
.showcase.active
 right: 300px;
.showcase video
```

```
position: absolute;
top: 0;
left: 0;
width: 100%;
height: 100%;
object-fit: cover;
opacity: 0.8;
.overlay
position: absolute;
top: 0;
left: 0;
width: 100%;
height: 100%;
background: #03a9f4;
mix-blend-mode: overlay;
.text
position: relative;
z-index: 10;
.text h2
font-size: 2em;
font-weight: 800;
color: #fff;
line-height: 1em;
text-transform: uppercase;
.text h3
font-size: 2.8em;
font-weight: 700;
color: #fff;
line-height: 1em;
text-transform: uppercase;
.text p
font-size: 1.1em;
color: #fff;
margin: 20px 0;
font-weight: 400;
max-width: 700px;
```

```
.text a
display: inline-block;
font-size: 1em;
background: #fff;
padding: 10px 30px;
text-transform: uppercase;
text-decoration: none;
font-weight: 500;
margin-top: 10px;
color: #111;
letter-spacing: 2px;
transition: 0.2s;
.text a:hover
background-color: red;
letter-spacing: 6px;
color: #fff;
font-weight: bold;
.social
position: absolute;
z-index: 10;
bottom: 20px;
display: flex;
justify-content: center;
align-items: center;
.social li
list-style: none;
.social li a
display: inline-block;
margin-right: 20px;
filter: invert(1);
transform: scale(0.5);
transition: 0.5s;
.social li a:hover
transform: scale(0.5) translateY(-15px);
```

```
.menu
 position: absolute;
 top: 0;
 right: 0;
 background-color: hsl(0, 0%, 0%);
 width: 300px;
 height: 100%;
 display: flex;
justify-content: center;
 align-items: center;
.menu ul
 position: relative;
.menu ul li
list-style: none;
margin-top: 1em;
.menu ul li a
 text-decoration: none;
 font-size: 24px;
 color:rgb(255, 255, 255);
.menu ul li a:hover
 color:chocolate;
@media (max-width: 991px)
 .showcase,
 .showcase header
 padding: 40px;
 .text h2
 font-size: 3em;
 .text h3
 font-size: 2em;
```

```
}
}
```

## style.css:

```
margin: 0;
  padding: 0;
  box-sizing: border-box;
.bg-dark{
  background-color: #75767B;
.mt-50{
  margin-top: 50px;
/* Google Font Link */
@import
url('https://fonts.googleapis.com/css2?family=Poppins:wght@200;300;400;500;600;700&di
splay=swap');
* {
  margin: 0;
  padding: 0;
  box-sizing: border-box;
  font-family: "Poppins", sans-serif;
.showcase {
  position: absolute;
  right: 0;
  width: 100%;
  min-height: 100vh;
  padding: 100px;
  display: flex;
  justify-content: space-between;
  align-items: center;
  background: #111;
  transition: 0.5s;
  z-index: 2;
.showcase.active {
 right: 300px;
```

```
.showcase video {
  position: absolute;
  top: 0;
  left: 0;
  width: 100%;
  height: 100%;
  object-fit: cover;
  opacity: 0.8;
@media (max-width: 991px) {
  .showcase,
  .showcase header {
    padding: 40px;
  .text h2 {
    font-size: 3em;
  .text h3 {
    font-size: 2em;
header .logo {
  color: #fff;
  text-transform: uppercase;
  cursor: pointer;
body {
  min-height: 100vh;
  display: flex;
  align-items: center;
  justify-content: center;
  background: #140824;
  padding: 30px;
.container {
  position: relative;
  max-width: 850px;
  width: 100%;
  background: #fff;
  padding: 40px 30px;
  box-shadow: 0 5px 10px rgba(0, 0, 0, 0.2);
```

```
perspective: 2700px;
.container .cover {
  position: absolute;
  top: 0;
  left: 50%;
  height: 100%;
  width: 50%;
  z-index: 98;
  transition: all 1s ease;
  transform-origin: left;
  transform-style: preserve-3d;
.container #flip:checked~.cover {
  transform: rotateY(-180deg);
.container .cover .front,
.container .cover .back {
  position: absolute;
  top: 0;
  left: 0;
  height: 100%;
  width: 100%;
.cover .back {
  transform: rotateY(180deg);
  backface-visibility: hidden;
.container .cover::before,
.container .cover::after {
  content: ";
  position: absolute;
  height: 100%;
  width: 100%;
  background: #1b0736;
  opacity: 0.5;
  z-index: 12;
.container .cover::after {
  opacity: 0.3;
  transform: rotateY(180deg);
```

```
backface-visibility: hidden;
.container .cover img {
  position: absolute;
  height: 100%;
  width: 100%;
  object-fit: cover;
  z-index: 10;
.container .cover .text {
  position: absolute;
  z-index: 130;
  height: 100%;
  width: 100%;
  display: flex;
  flex-direction: column;
  align-items: center;
  justify-content: center;
.cover .text .text-1,
.cover .text .text-2 {
  font-size: 26px;
  font-weight: 600;
  color: #fff;
  text-align: center;
.cover .text .text-2 {
  font-size: 15px;
  font-weight: 500;
.container .forms {
  height: 100%;
  width: 100%;
  background: #fff;
.container .form-content {
  display: flex;
  align-items: center;
  justify-content: space-between;
```

```
.form-content .login-form,
.form-content .signup-form {
  width: calc(100% / 2 - 25px);
.forms .form-content .title {
  position: relative;
  font-size: 24px;
  font-weight: 500;
  color: #333;
.forms .form-content .title:before {
  content: ";
  position: absolute;
  left: 0;
  bottom: 0;
  height: 3px;
  width: 25px;
  background: #1b0736;
.forms .signup-form .title:before {
  width: 20px;
.forms .form-content .input-boxes {
  margin-top: 30px;
.forms .form-content .input-box {
  display: flex;
  align-items: center;
  height: 50px;
  width: 100%;
  margin: 10px 0;
  position: relative;
.form-content .input-box input {
  height: 100%;
  width: 100%;
  outline: none;
  border: none;
  padding: 0 30px;
  font-size: 16px;
  font-weight: 500;
```

```
border-bottom: 2px solid rgba(0, 0, 0, 0.2);
  transition: all 0.3s ease;
.form-content .input-box input:focus,
.form-content .input-box input:valid {
  border-color: #1b0736;
.form-content .input-box i {
  position: absolute;
  color: #1b0736;
  font-size: 17px;
.forms .form-content .text {
  font-size: 14px;
  font-weight: 500;
  color: #333;
.forms .form-content .text a {
  text-decoration: none;
.forms .form-content .text a:hover {
  text-decoration: underline;
.forms .form-content .button {
  color: #fff;
  margin-top: 40px;
.forms .form-content .button input {
  color: #fff;
  background: #1b0736;
  border-radius: 6px;
  padding: 0;
  cursor: pointer;
  transition: all 0.4s ease;
.forms .form-content .button input:hover {
  background: #1b0736;
```

```
.forms .form-content label {
  color: #1b0736;
  cursor: pointer;
.forms .form-content label:hover {
  text-decoration: underline;
.forms .form-content .login-text,
.forms .form-content .sign-up-text {
  text-align: center;
  margin-top: 25px;
.container #flip {
  display: none;
@media (max-width: 730px) {
  .container .cover {
    display: none;
  .form-content .login-form,
  .form-content .signup-form {
    width: 100%;
  .form-content .signup-form {
    display: none;
  .container #flip:checked~.forms .signup-form {
    display: block;
  .container #flip:checked~.forms .login-form {
    display: none;
```

#### Test case:







