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CIT-215- jQuery – Interest

For this interesting project, my goal was to develop a business I would like to have on my side which is an auto-selling business. Using JavaScript and jQuery I was able to create an interactive auto webpage using a series of jQuery to achieve many tasks such as using events, accessing the DOM to target elements on the webpage, and creating the webpage dynamically.

The webpage is fairly easy to use and I added instructions on the top of the page to inform the user on how to navigate and easily see what they are looking for. There are various card-carrying information on different cars rather than displaying the information directly I used jQuery to display that information dynamically. I used event handlers to hide car features and only displayed them when a user placed the mouse over the card. The price of the car is displayed when the user clicks the image then the price is revealed and the card is highlighted which then resets once the mouse moves away from the card.

| **Rubric (7)** | | |  |
| --- | --- | --- | --- |
| **Criteria** | **Ratings** | **Pts** |  |
| Interface is Authentic, Professional, Balanced  **view longer description** | **20 pts**  **Full Marks**  **0 pts**  **No Marks** | / 20 pts | I used JavaScript, CSS to style, jQuery and HTML to design Authentic, Professional webpage |
| Interface links to functional jQuery  **view longer description** | **20 pts**  **Full Marks**  **0 pts**  **No Marks** | / 20 pts | I linked a jQuery directly in the html file using.  <script src="jquery-3.7.1.js"></script> |
| Events are Effective, jQuery  **view longer description** | **15 pts**  **Full Marks**  **0 pts**  **No Marks** | / 15 pts | I used event such as $(".box").on("click", function () {        let indexOfVehicle = $(".box").index(this);        $(this).find("p.vehicle").text(          vehicles[indexOfVehicle].Vehicle\_Name + ": "           + vehicles[indexOfVehicle].Price        );  To target the card so when it clicked it displays the price |
| DOM Access, jQuery  **view longer description** | **15 pts**  **Full Marks**  **0 pts**  **No Marks** | / 15 pts | **$(".vehicle").eq(index).html(vehicles[index].Vehicle\_Name + "<br>" + vehicles[index].Year);** - Selects elements with the class "vehicle" and sets their HTML content. |
| DOM Dynamically Built, jQuery  **view longer description** | **15 pts**  **Full Marks**  **0 pts**  **No Marks** | / 15 pts | The $(document).ready(showVehicleInfo);  Is built dynamically using jQuery calls within functions of click event, mouse over event, mouse out event. |
| Documentation: Program Code and Project Description  **view longer description** | **15 pts**  **Full Marks**  **0 pts**  **No Marks** | / 15 pts | I created a document file and it’s fully annotated, explaining the code. I also documented the goal of this application. |
| Style, jQuery  **view longer description** | **10 pts**  **Full Marks**  **0 pts**  **No Marks** | / 10 pts | $(".box").on("click", function () {  let indexOfVehicle = $(".box").index(this);  $(this).find("p.vehicle").text(  vehicles[indexOfVehicle].Vehicle\_Name + ": " + vehicles[indexOfVehicle].Price  );  $(".box").css("background-color", "");  $(.”box”).css("background-color", "red");  }); In this part of the code, I used **$(".box").css("background-color", "");** to remove the background color from **.box** elements. Then used **$(this).css("background-color” red)** to set it the selected to red. |

HTML:  
<!-- @format -->

<!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" />

    <title>Tony Auto</title>

    <script src="jquery-3.7.1.js"></script>

    <script src="vehicle\_arrays.js"></script>

    <script src="vehicle.js"></script>

    <link rel="stylesheet" href="style.css">

  </head>

  <body>

    <header>

      <h1>TONY AUTO</h1>

    </header>

    <h3>Mouse over for full car features, click on the picture to reveal price</h3>

    <div class = "container">

      <div class="wrapper">

    </div>

    </div>

  </body>

</html>

--------------------------------Style CSS-------------------------------------------

header {

    width: 100%;

    height: 20vh;

    background-color: rgb(29, 29, 27);

    color: aliceblue;

    display: flex; /\* How to perfectly center  \*/

    align-items: center; /\* items \*/

    justify-content: center; /\* horizontally and vertically \*/

    flex-direction: column;

  }

     .wrapper {

        display: flex;

        flex-direction: row;

        flex-wrap: wrap;

        width: 100%;

      }

      .box {

        flex: 0 0 360;

        height: 0 0 300px;

        background-color: rgb(224, 222, 226);

        margin: 5px;

        font-size: xx-large;

        color: rgb(14, 14, 13);

        box-sizing: border-box;

        padding: 2px;

        margin: 5px;

        font-size: medium;

      }

      h1 {

            font-size: 50px;

            font-family: Cambria, Cochin, Georgia, Times, "Times New Roman", serif;

          }

      .vehicle\_pic {

        width: 300px;

        height: 150px;

        margin-left: auto;

        margin-right: auto;

      }

      .vehicle {

        margin-left: 3px;

      }

      h3 {

        text-align: center;

    }

    .container {

      width: 100%;

      max-width: 1000px;

      margin: 0px auto;

      padding: 0 15px;

    }

---------------------------------------API--------------------------------------

/\*\* @format \*/

const vehicles = [

  {

    Vehicle\_Name: "Ford Explorer",

    Year:"2020",

    Features: {

      Color: "white",

      MPG: 24,

      Drivetrain: "All-Wheel Drive",

      Engine: "250 hp",

      Transmission: "Automatic",

      Mileage: "32,000"

    },

    Price: "$21,700"

  },

  {

    Vehicle\_Name: "Toyota Camry",

    Year: "2021",

    Features: {

      Color: "white",

      MPG: 28,

      Drivetrain: "Front-Wheel Drive",

      Engine: "200 hp",

      Transmission: "Automatic",

      Mileage: "25,000"

    },

    Price: "$19,500"

  },

  {

    Vehicle\_Name: "Chevrolet Malibu",

    Year: "2018",

    Features: {

      Color: "Silver",

      MPG: 26,

      Drivetrain: "Front-Wheel Drive",

      Engine: "180 hp",

      Transmission: "Automatic",

      Mileage: "28000"

    },

    Price: "$20,500"

  },

  {

    Vehicle\_Name: "Honda Accord",

    Year: "2021",

    Features: {

      Color: "White",

      MPG: 30,

      Drivetrain: "Front-Wheel Drive",

      Engine: "190 hp",

      Transmission: "Automatic",

      Mileage: "22,000",

    },

    Price: "$21,500"

  },

  {

    Vehicle\_Name: "Nissan Rogue",

    Year: "2020",

    Features: {

      Color: "White",

      MPG: 26,

      Drivetrain: "All-Wheel Drive",

      Engine: "170 hp",

      Transmission: "CVT",

      Mileage: "20,000"

    },

    Price: "$23,000"

  },

  {

    Vehicle\_Name: "RAM 1500",

    Year: "2017",

    Features: {

      Color: "Silver",

      MPG: 20,

      Drivetrain: "All-Wheel Drive",

      Engine: "405 hp",

      Transmission: "Automatic",

      Mileage: "33,000"

    },

    Price: "$43,000"

  }

];

---------------------------------Javascript & JQuery---------------------------

  //export default vechiles;

/\*\* @format \*/

 // import {vechile} from "vehicle.js";

 const VechileNameInt = (index) => {

    $(".vehicle").eq(index).html(vehicles[index].Vehicle\_Name + "<br>"

    +vehicles[index].Year);

  };

  const showVehicleInfo = () => {

    cards();

    jQuery.each($(".box"), VechileNameInt);

    // Add an event handler for when the element of class "box" gets a click event

    $(".box").on("click", function () {

      let indexOfVehicle = $(".box").index(this);

      $(this).find("p.vehicle").text(

        vehicles[indexOfVehicle].Vehicle\_Name + ": "

         + vehicles[indexOfVehicle].Price

      );

      $(".box").css("background-color", "");

      $(".box").css("background-color", "red");

    });

    $(".box").on("mouseover", function () {

      let indexOfVehicle = $(".box").index(this);

      let featuresString = "Features: <br>";

      let featuresObject = vehicles[indexOfVehicle].Features;

      // Iterate over the properties of the Features object

      for (let feature in featuresObject) {

        featuresString += feature + ": " + featuresObject[feature] + "<br>";

      }

      $(this).find("p.vehicle").html(featuresString);

    });

    // Add a mouseout event

    $(".box").on("mouseout", function () {

      let indexOfVehicle = $(".box").index(this);

      // Reset the text to display the name and reset the red background color

      $(".box").css("background-color", "");

      $(this).find("p.vehicle").html(vehicles[indexOfVehicle].Vehicle\_Name + "<br>"

      + vehicles[indexOfVehicle].Year);

    });

  };

  const cards = () => {

    let wrapperRef = $('.wrapper');

    vehicles.forEach((vehicle) => {

      let boxMarkup = ` <div class="box">

          <img class="vehicle\_pic" src="./images/${vehicle.Vehicle\_Name.toLowerCase()}.jpg" />

          <p class="vehicle"></p>

        </div>`;

      wrapperRef.append(boxMarkup);

    });

  }

  $(document).ready(showVehicleInfo);