



Project 2 – Mileaux Cab Company Fare Calculator

The Mileaux Cab Company is looking for you to write a web based program that drivers can use to calculate the cost of a cab ride. They want the program to run when a button is clicked on the page.

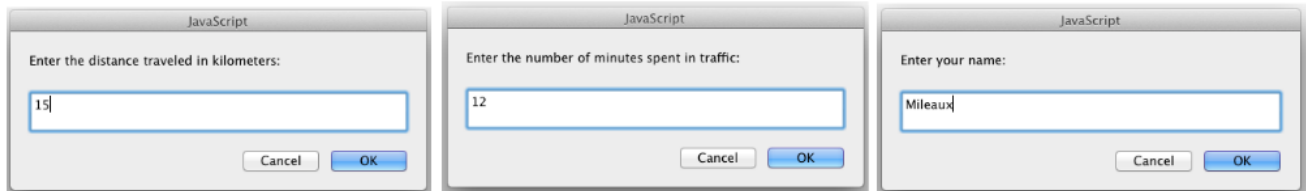
For this project, you must put together a web application that meets all of the customer's requirements. You may work with one other person on this project, or you may work alone.

Part 1 – HTML/CSS Requirements:

1. The Mileaux Cab Company logo must be included on the page. This file is in the project directory.
2. All style rules must be set in the `mcc.css` file in the `/css` directory. No inline style rules!
3. You should use Bootstrap for arranging the parts of the page. You are not required to do so. The files are located in the `/bootstrap` folder.
4. You must add `script1.js` to the `main.html` file using `<script></script>` tags.
5. You must link the `mcc.css` file to the `html` file using the correct tag.
6. The header of the page should have the words 'Mileaux Cab Company' centered on the page.
7. The footer of the page should say 'Mileaux Cab Company – Dog Go!'.
8. The company colors are in the logo. These should be the colors you use in the different parts of the page. These colors are:
 - `rgb(238,156,0)`
 - `rgb(233,113,23)`
 - `rgb(0,170,189)`
 - `black`
9. You must keep the text of the button (with id `calculateFare`) as 'Calculate Fare'. You should make this button use the first two colors in the list. This button should be in the center of the page.
10. The button labeled 'Calculate Fare' in the HTML file will run the code in the `script1.js` file when clicked, if you have put the code in the right place. You can check this by looking at the console and clicking on the button.

Part 2 – JavaScript Requirements

1. The script file must have your name, date, and version in the comment area at the top. The version number should be 1.0 for the first submission of the project.
2. The program must be written in the correct area inside the script1.js file inside the project directory. Ask the customer for the distance driven, the number of minutes spent in traffic, and their name using a prompt() that looks like this:



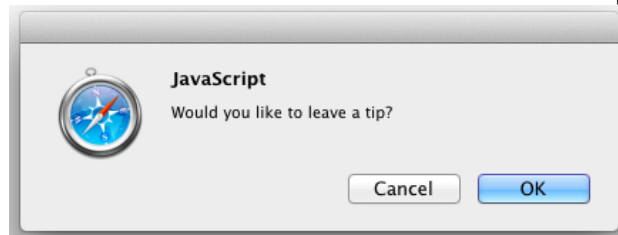
The image shows three sequential JavaScript prompts in a standard macOS-style window. The first prompt asks for the distance traveled in kilometers, with the input field containing '15'. The second prompt asks for the number of minutes spent in traffic, with the input field containing '12'. The third prompt asks for the customer's name, with the input field containing 'Mileaux'. Each prompt has 'Cancel' and 'OK' buttons at the bottom.

3. The fare is calculated from three parts. All cab fares start at 11 RMB. For each kilometer of distance traveled, the cost increases by 2 RMB. For each minute of time spent in traffic, the cost increases by 1.5 RMB. These three costs are added together to get the total fare.
4. The program should alert a receipt that has the name, distance traveled, minutes, and total fare. This alert should look like this:



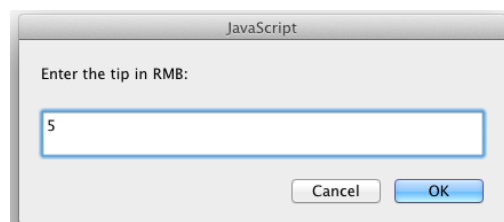
The image shows a JavaScript alert dialog with a title bar that says 'JavaScript'. It features a compass icon on the left. The text inside the dialog reads: 'Customer Name: Mileaux', 'Distance Traveled: 15 km', 'Minutes in Traffic: 12 minutes', and 'Total Fare: 59 RMB'. There is an 'OK' button at the bottom right.

5. The program should then ask if the rider wants to leave a tip:



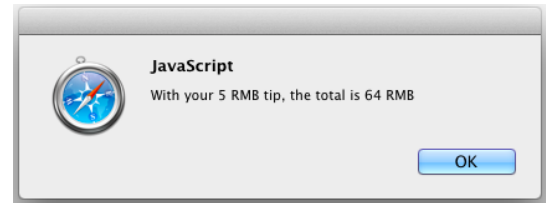
The image shows a JavaScript alert dialog with a title bar that says 'JavaScript'. It features a compass icon on the left. The text inside the dialog reads: 'Would you like to leave a tip?'. There are 'Cancel' and 'OK' buttons at the bottom.

6. If the rider selects 'OK', alert a question that asks how much of a tip the rider wants to give:

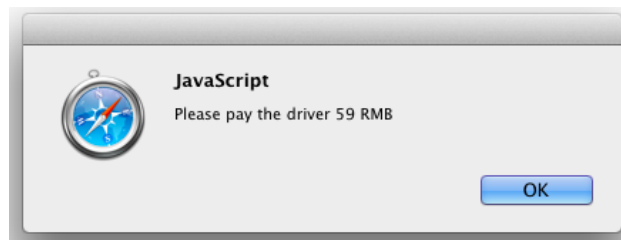


The image shows a JavaScript prompt dialog with a title bar that says 'JavaScript'. The text inside the dialog reads: 'Enter the tip in RMB:'. The input field contains the number '5'. There are 'Cancel' and 'OK' buttons at the bottom.

After this is entered, an alert should say how much the driver needs to be paid. This should be the total from the receipt, plus the tip.



7. If the rider does not want to leave a tip and selects 'Cancel', the program should alert the total that should be paid to the driver:



The following are bonus requirements – they will only be counted once all of the above is included in your project.

8. Add a conditional statement to the program that makes it so that If the number of kilometers driven is less than 3, there should be no charge for the distance traveled. If the number of minutes in traffic is less than 10 minutes, there should be no charge for the time spent in traffic.

This means that a ride that is 2 kilometers with 2 minutes spent in traffic should only cost 11 RMB. A ride that is 2 kilometers with 12 minutes spent in traffic should cost 29 RMB.

9. The program should ask if the rider wants to pay in RMB or dollars. If the rider responds 'dollars', the program should alert the cost in dollars instead of RMB, using the current exchange rate.

Project Rubric:

10. Design Appearance	11. Meeting Design Requirements	12. Design Award Bonus
3 – Theme in the template is consistent throughout the entire site. No typos, grammar errors, or visual errors are present in the site.	6 – Above requirements are met, without exception. The pages are linked together and organized according to the design requirements.	1 – Website uses an element of style, structure, or usability that goes beyond the basic requirements or content of the course thus far.
2 – No more than two minor visual errors are present in the pages or template. All design elements are visible and easy to read. Text is appropriately sized.	5 – No more than two requirements are incomplete.	
1 – Three or more visual errors are present. Colors are not chosen appropriately to maximize visibility.	4 – Three or more design requirements are incomplete	

Maximum Score: 10/10, including the Design Award Bonus