# Task 1

**Describe HTTP**

Short for HyperText Transfer Protocol, HTTP is the underlying protocol used by the World Wide Web. HTTP defines how messages are formatted and transmitted, and what actions Web servers and browsers should take in response to various commands. For example, when you enter a URL in your browser, this actually sends an HTTP command to the Web server directing it to fetch and transmit the requested Web page.

**Describe limitations of HTTP when developing web applications.**

HTTP uses stateless programming which means the session data is not set. So it will not be able to save any information that has been inputted into the site. (This is login information or contact form details). To fix this issue you will need to add session data to the website so that data can be saved.

**Identify the advantages of HTTP when developing web applications.**

An advantage of HTTP is statelessness it makes the loading times of web pages quicker than those using stateful. Also stateless data simplifies the server design because there isn’t a need to store any information. One other advantage of HTTP is encrypted connections using HTTPS.

# Task 3

**Outline the output reports generated by your website, including screen shots of the reports and the SQL code used to fetch the data.**

Screenshots are at the bottom of task 3.

**Outline the security and access control for your website, including a documented test of the security system to ensure functionality.**

For the website security we used a simple username and password system that is stored in the database with encryption for the password. The username for the salespersons is there last name and the first letter of their first name. For example, John Doe login would be doej.

**Outline and recommend a plan for implementing this web application.**

My plan for implementing this web application is first to decide whether or not to use a hosting company such as go daddy or to set up a local server. For this plan we will go with a hosting company. We will also need an ftp client such as FileZilla.

1. Configure the connect.php to connect to the database.
2. Connect to the server.
3. Upload all the files to the webserver.
4. Browse to the web address.
5. Log in to phpmyadmin and import the backup file is there is one. Else enter the data manually.

**Outline how to import old data into new database using phpmyadmin.**

Old data can be imported in a few ways, the first way is to manual enter all data via the website and the second is via the phpmyadmin’s insert data option but both of these ways will take time depending on how much data you have to import. The third way is to import a backed up copy of your data from the previous database.

To import backed up data that was saved as a sql file follow these steps.

1. Access the database you plan to use or create a new one in phpmyadmin.
2. Click the import tab at the top of the page.
3. Browse the computer for the backed up sql file.
4. Click Go.

**Identify and document user training requirements.**

Staff training will be simple they will be shown by the administrator how to add and view customers and vehicles. The administrator will need to know how to use database via phpmyadmin and how to maintain it.

**Outline the web application’s use of statefull/statelessness**

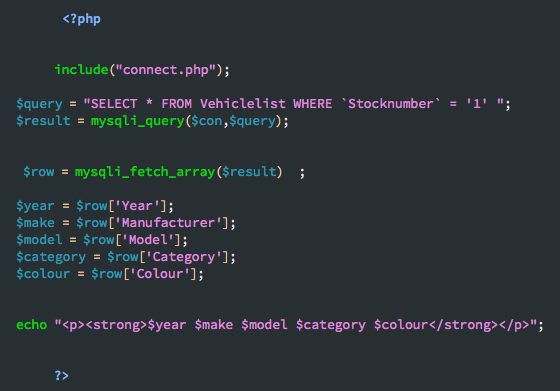
The web application uses stateful programming to store data such as current salesperson logged in. This allows the active salesperson to view secure pages. It is also used on the sales list page were it shows current salesperson logged in. The main areas of the site such as vehicle list uses statelessness.

**Screenshots:**

Used vehicle page

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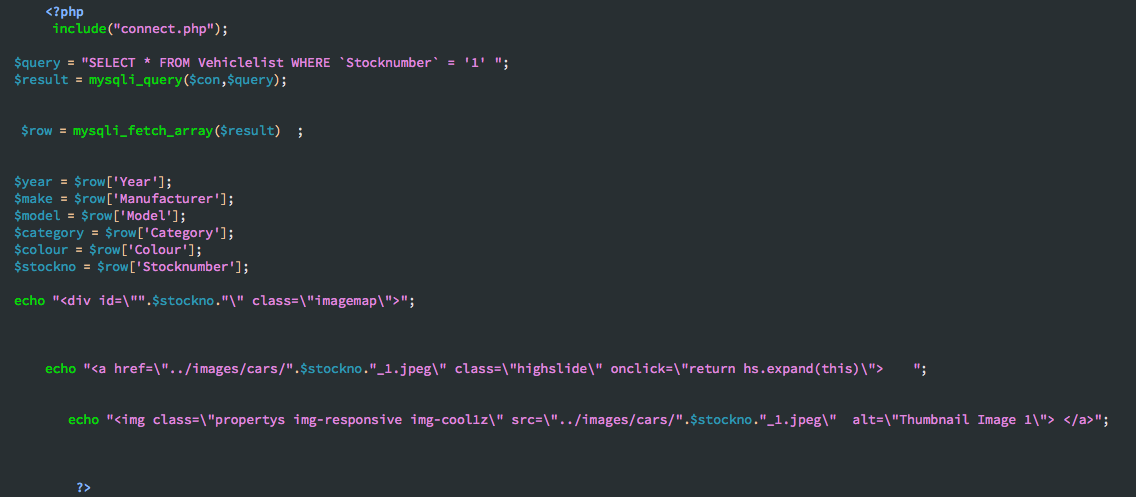
This code is to display the year make model category and color of the car.



This code is to display the price of the car.



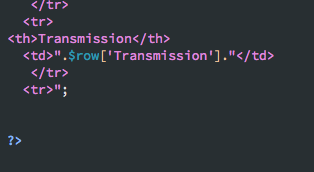
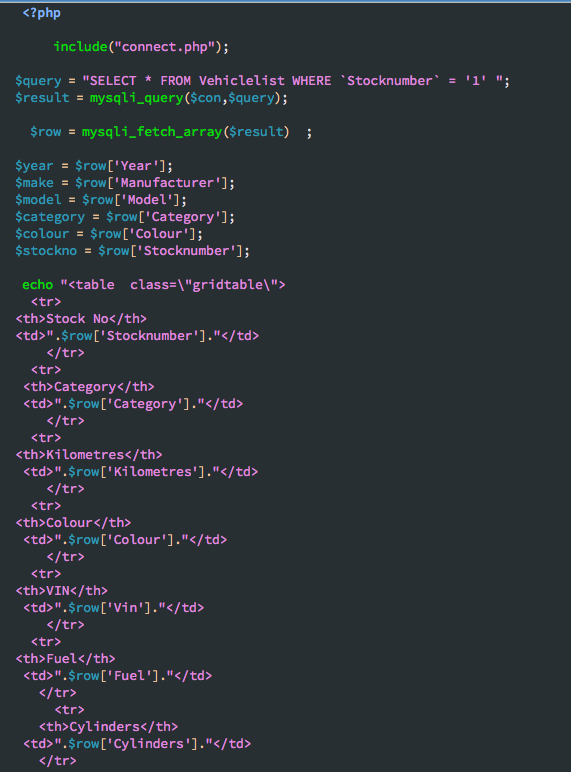
This code is to display a large picture of the of the car and when clicked it uses JS to display it even larger on the screen

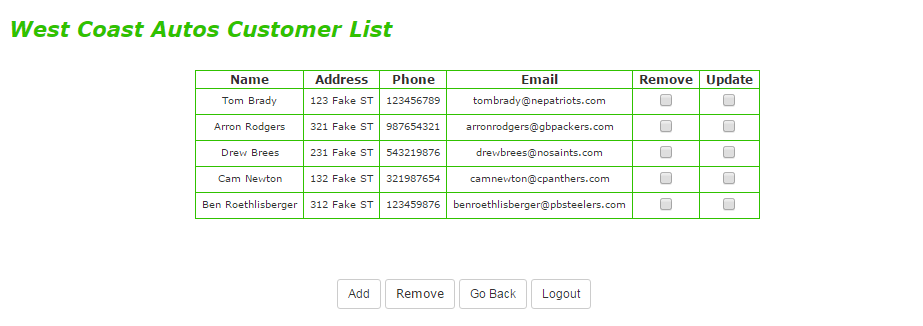


This code is to display the 4 thumbnail pictures of the car and when clicked it uses JS to display it in the larger picture.

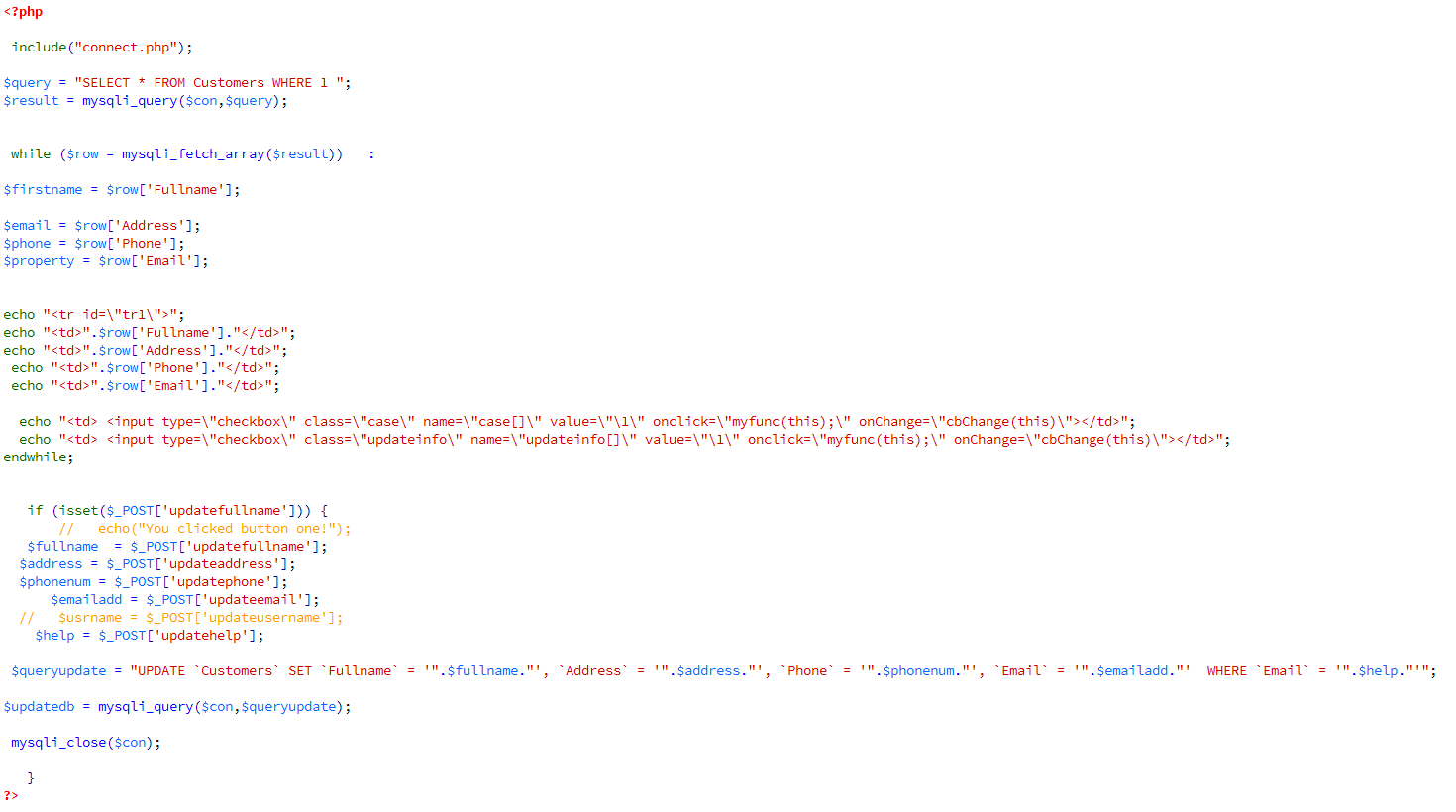


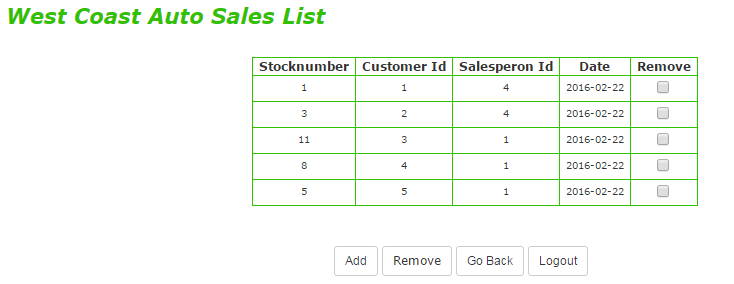
This code is to display information about the car such as kilometers and fuel type



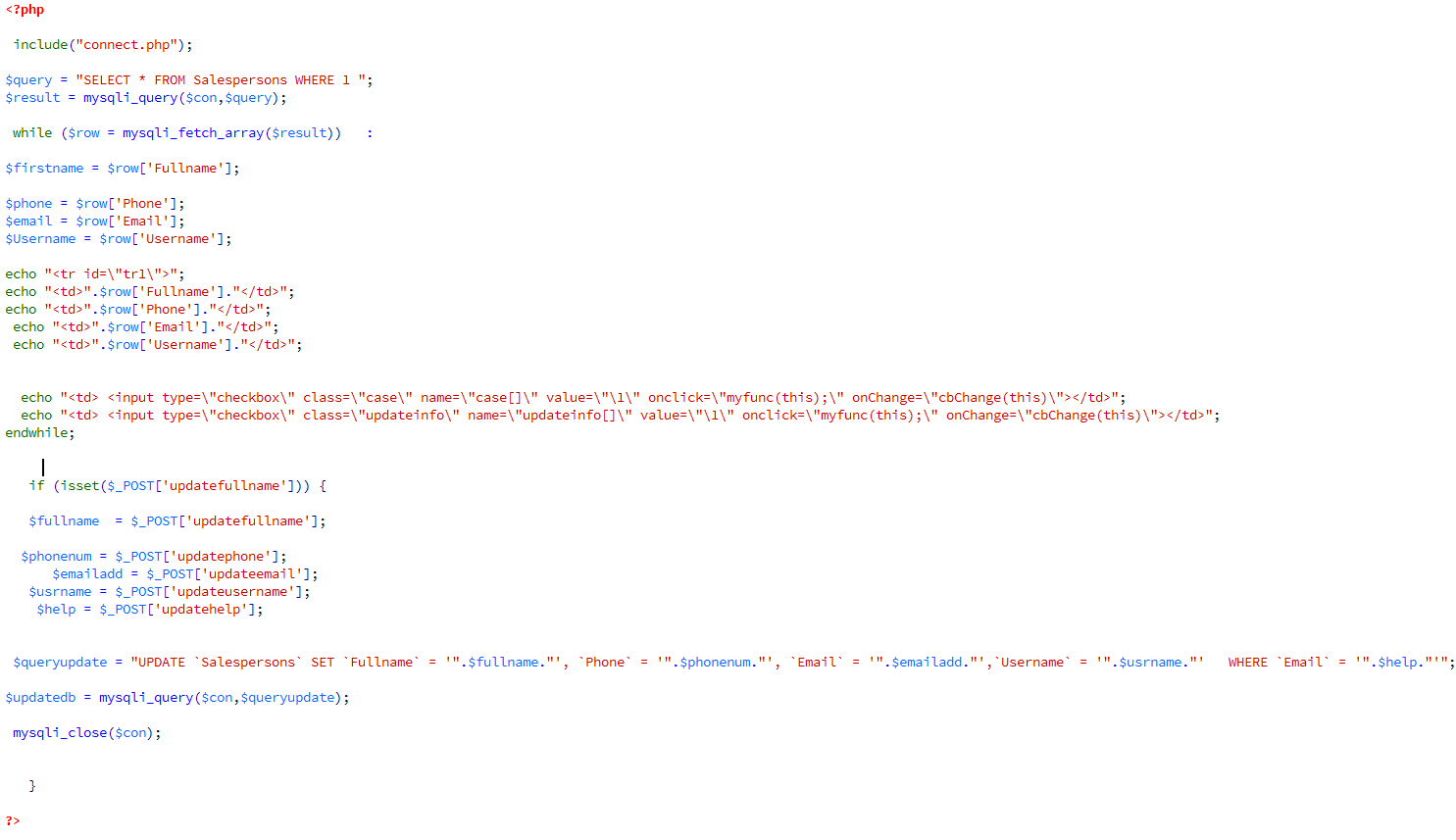


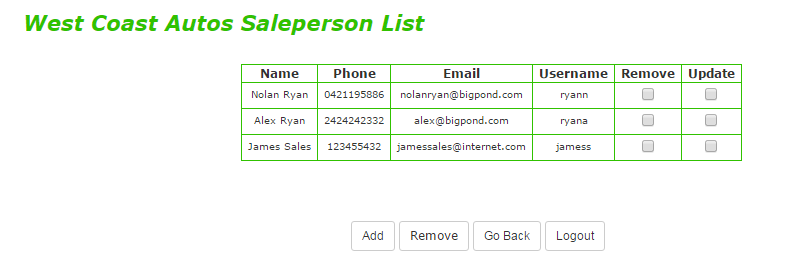
This code is to display information about the customers



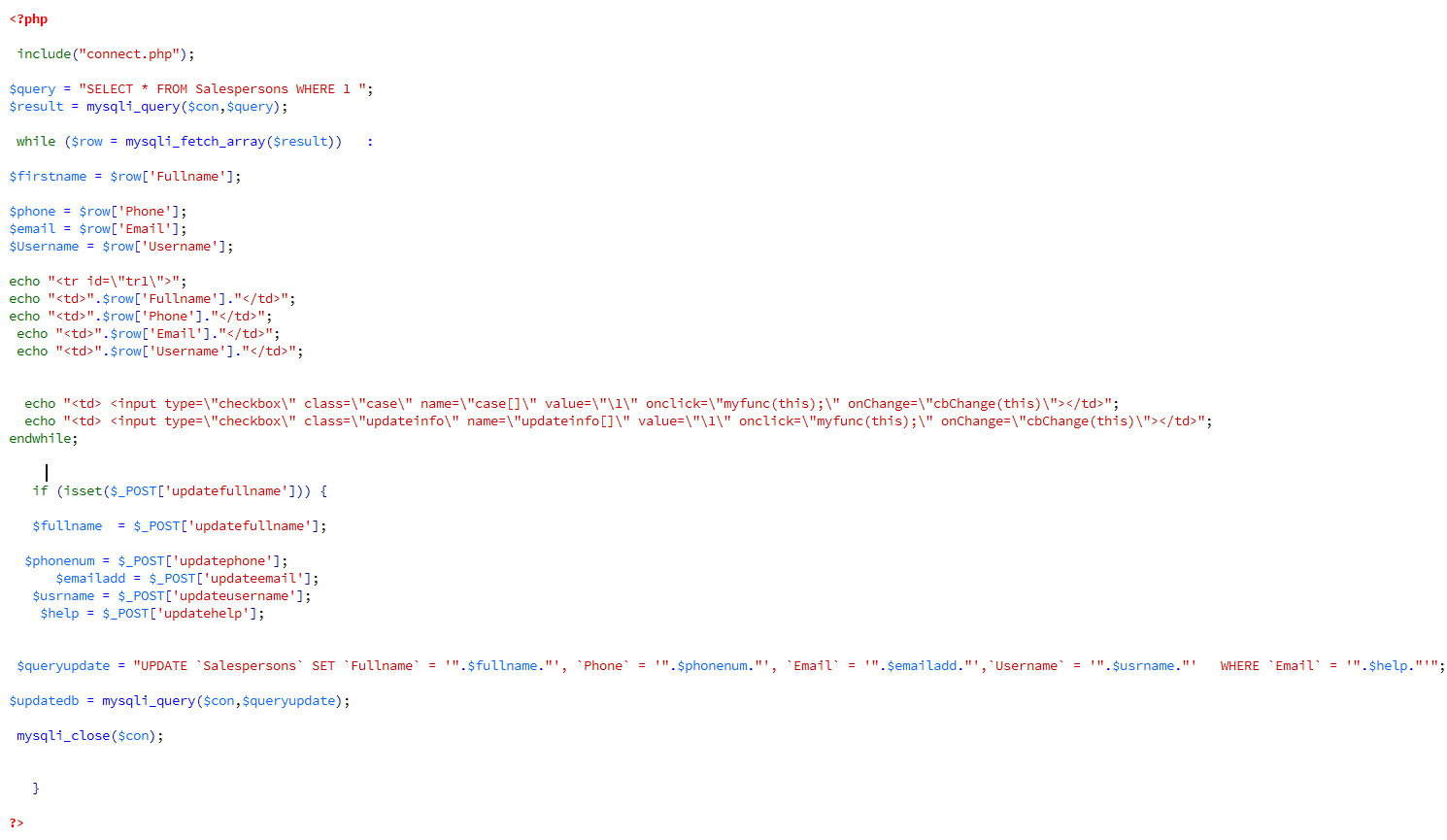


This code is to display information about the sales made.





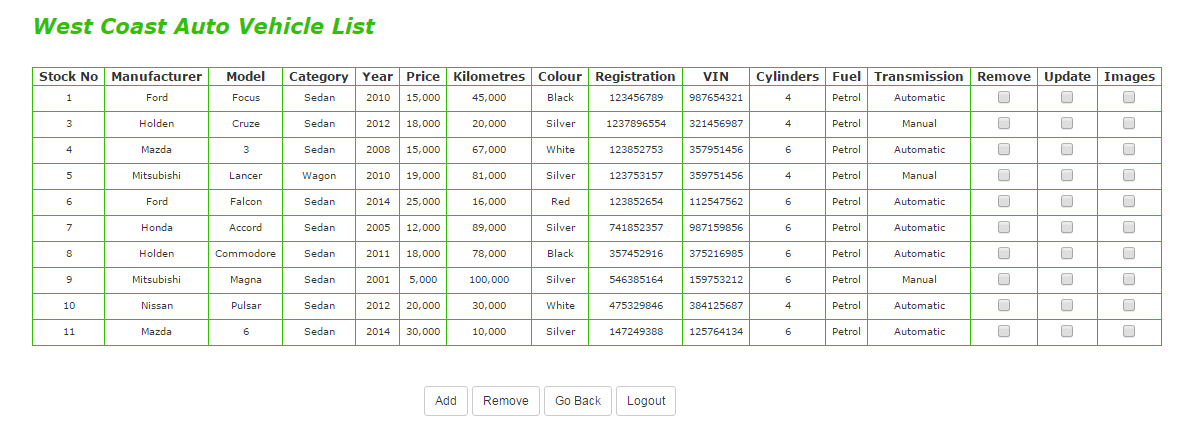
This code is to display information about the sales persons



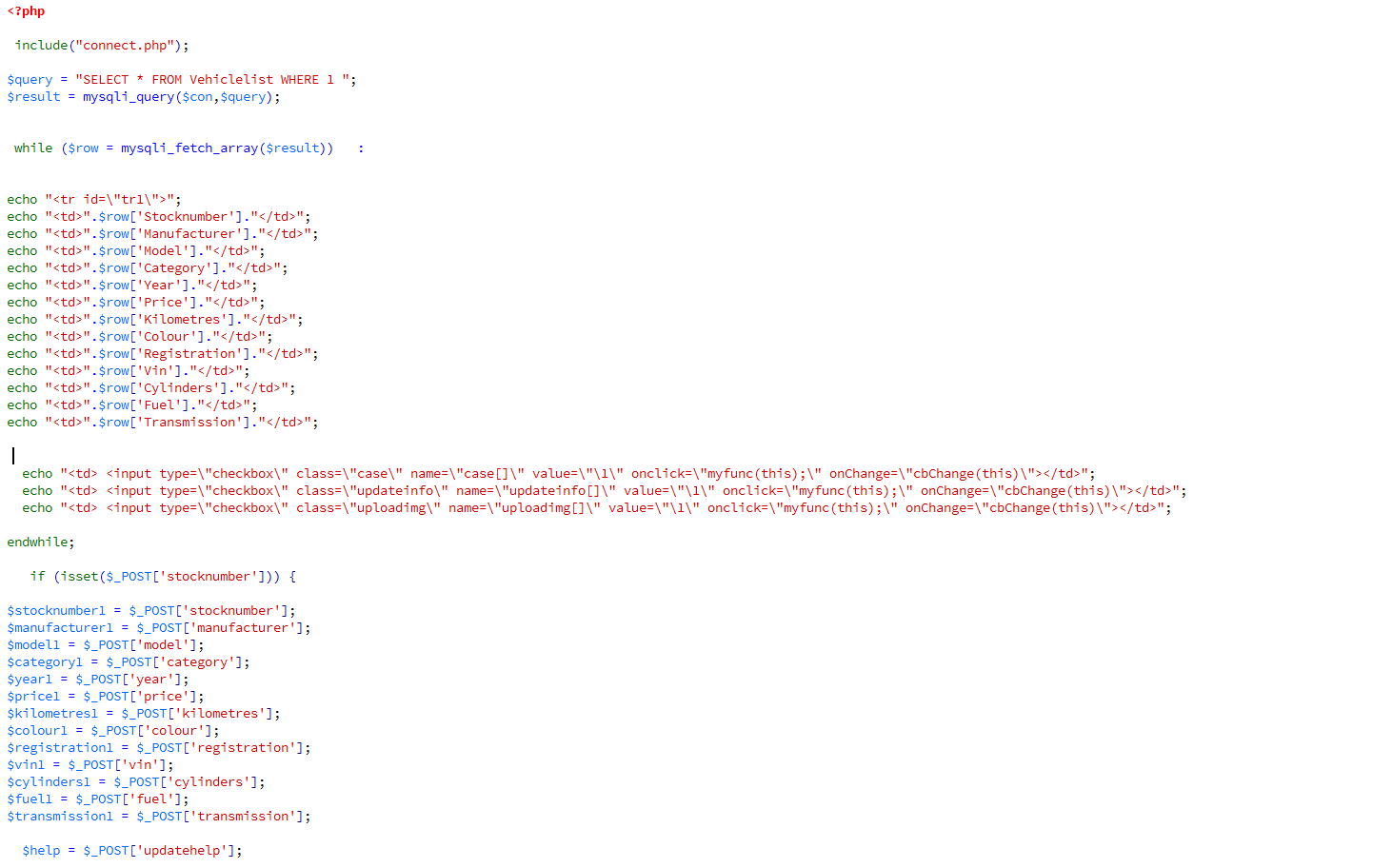


This code is to display information about the specials





This code is to display information about the vehicles



# Task 4