

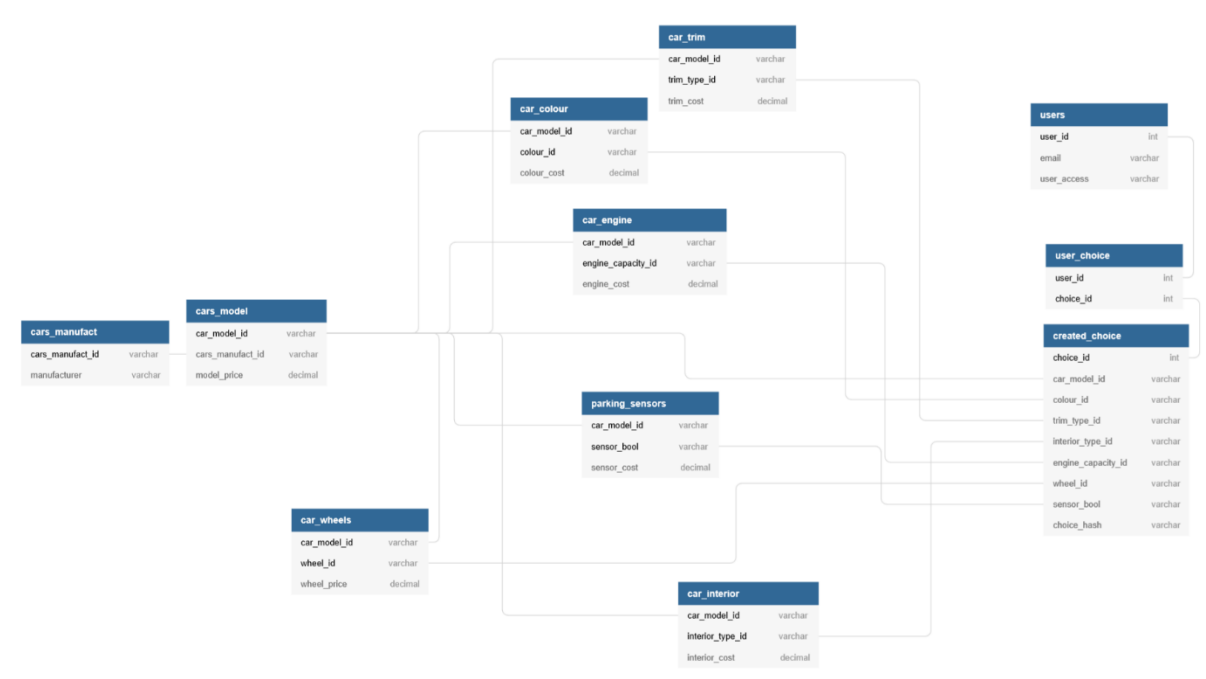
Final report

Throughout my final report I will showcase the features of my website and the work that I have developed.

This website was developed during our challenge week, which took place over a period of 4 days. We were tasked with coding this website 'by hand' and could not use any 3rd party libraries.

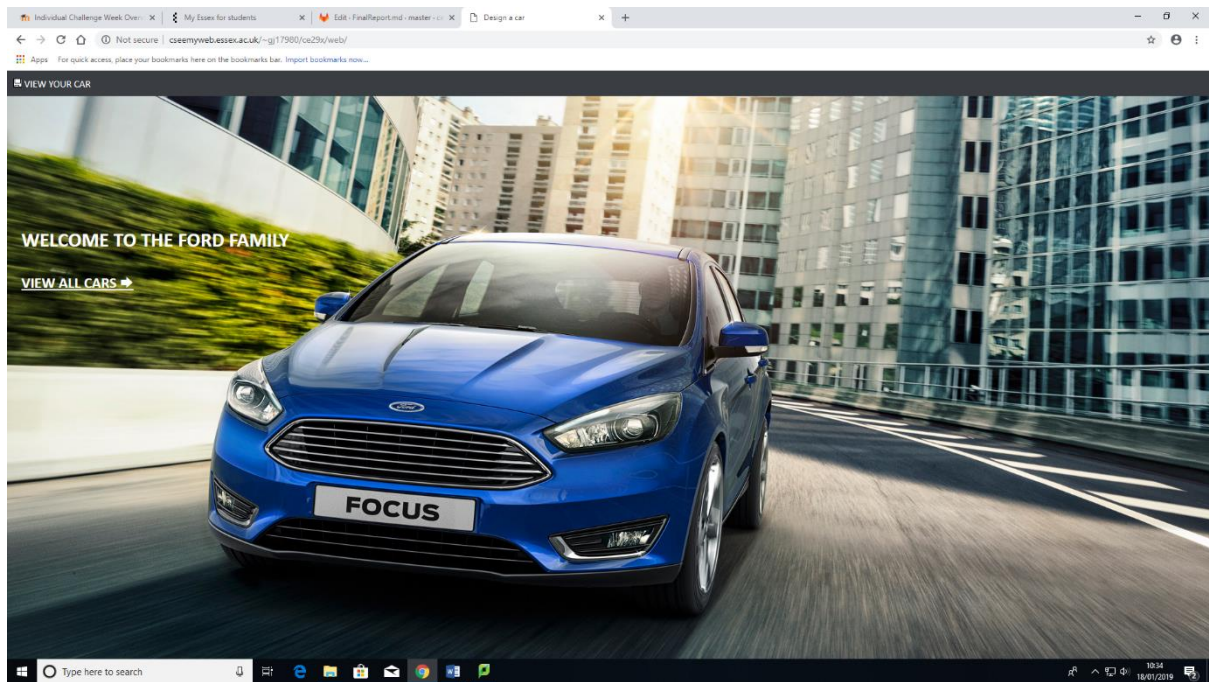
The website shown is coded using a PHP / MYSQL backend, and a HTML / CSS frontend.

Database schema



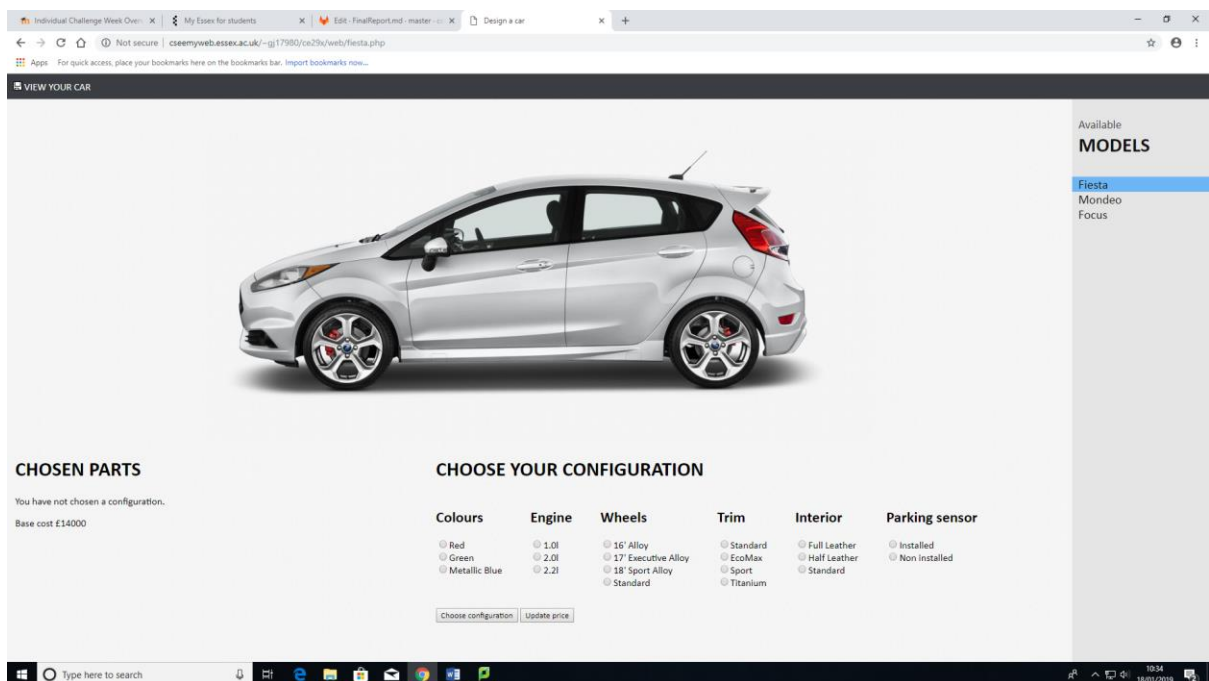
Landing page

The landing page acts as the index for my website. This provides a simple web link to allow users to enter the car customisation menu.



Car customisation menu

The car customisation page dynamically pulls down the information from my SQL database to create radio button options, images and pricing for my car. There is also JavaScript present on the page which will show the user what choices they have made when they click the button (without refreshing the page). This was intended to show an updated price, but this has not been implemented yet. Error checking is performed with this java, to stop users from not selecting enough options.



Your choice

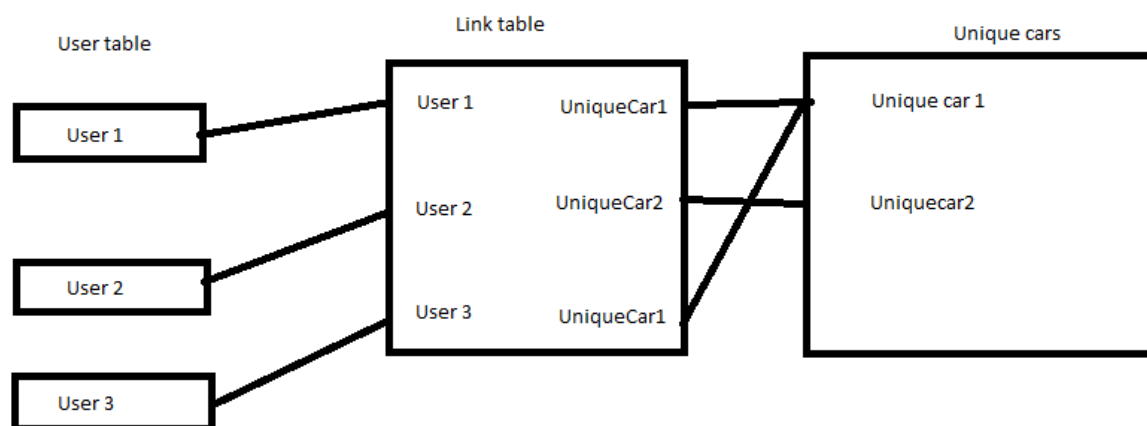
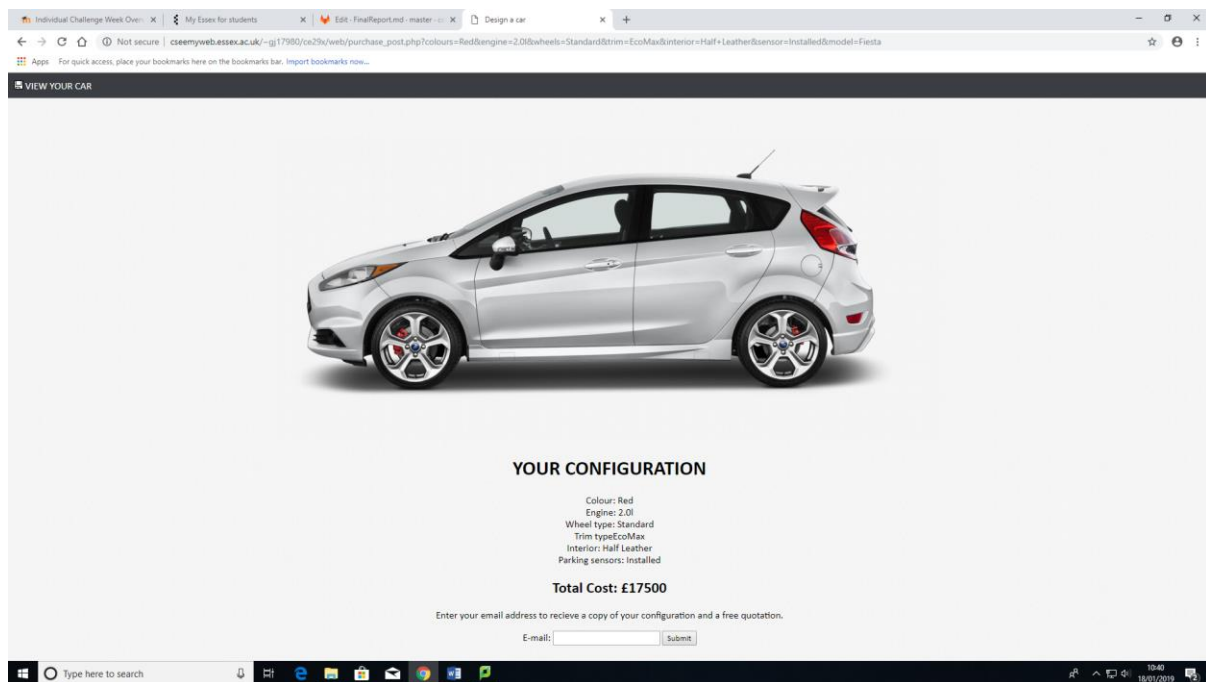
Once the user has made a choice, they are taken to a choice summary page. Here, the final price of the car (with the extra options) is shown. The user can then opt to have the car emailed to them, by entering their email address.

In the backend of the system, the created choice will be queried against my list of unique choices (these are generated by hashing all the chosen components). If a unique combination is detected, a new entry will be added to my database.

Once the user enters their email address and clicks submit, an email will be sent to them with the unique hash of their car.

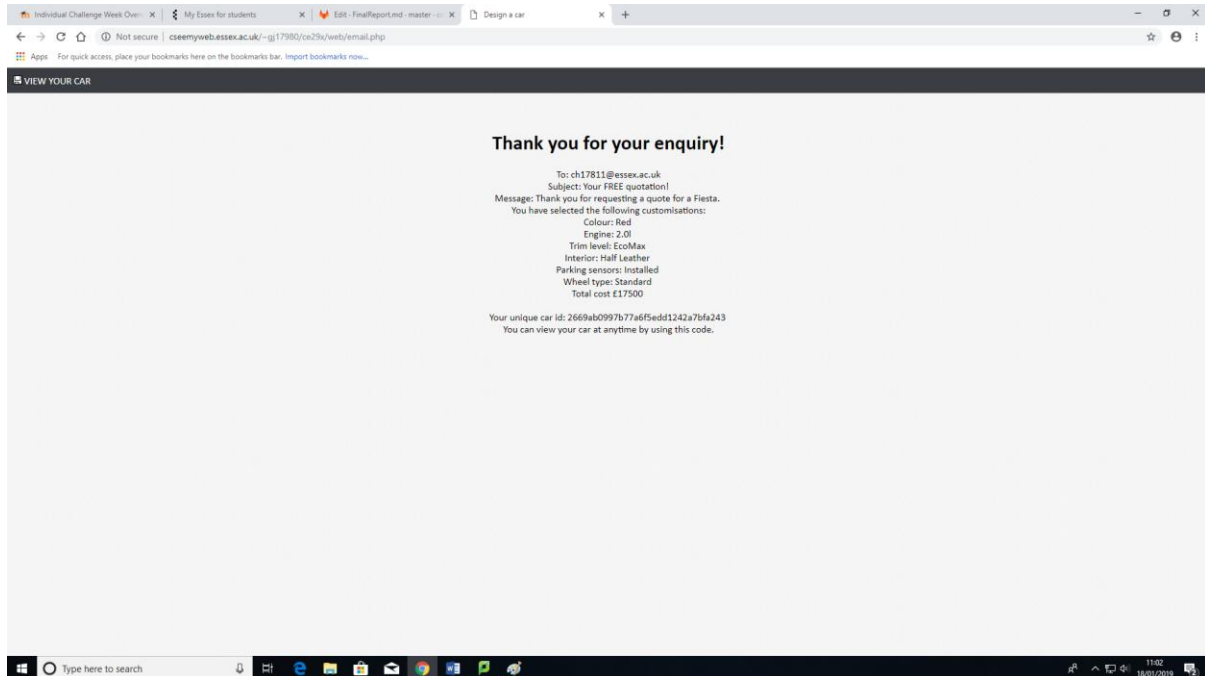
In the backend, a user will be created, which will store their email address, and a link to the unique car.

Because of the way I have designed my database, multiple users can point to the same customisation. This will cut down on duplicated and waste data, and will help ensure that only unique data is present in my db.



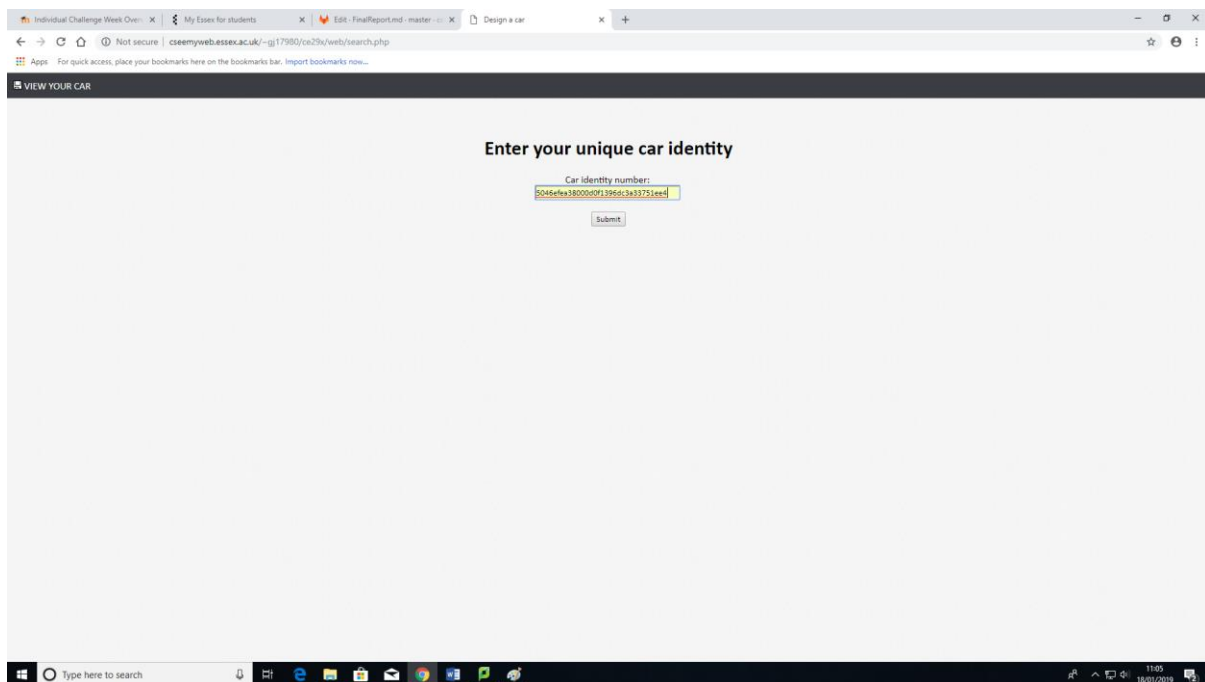
Email alert

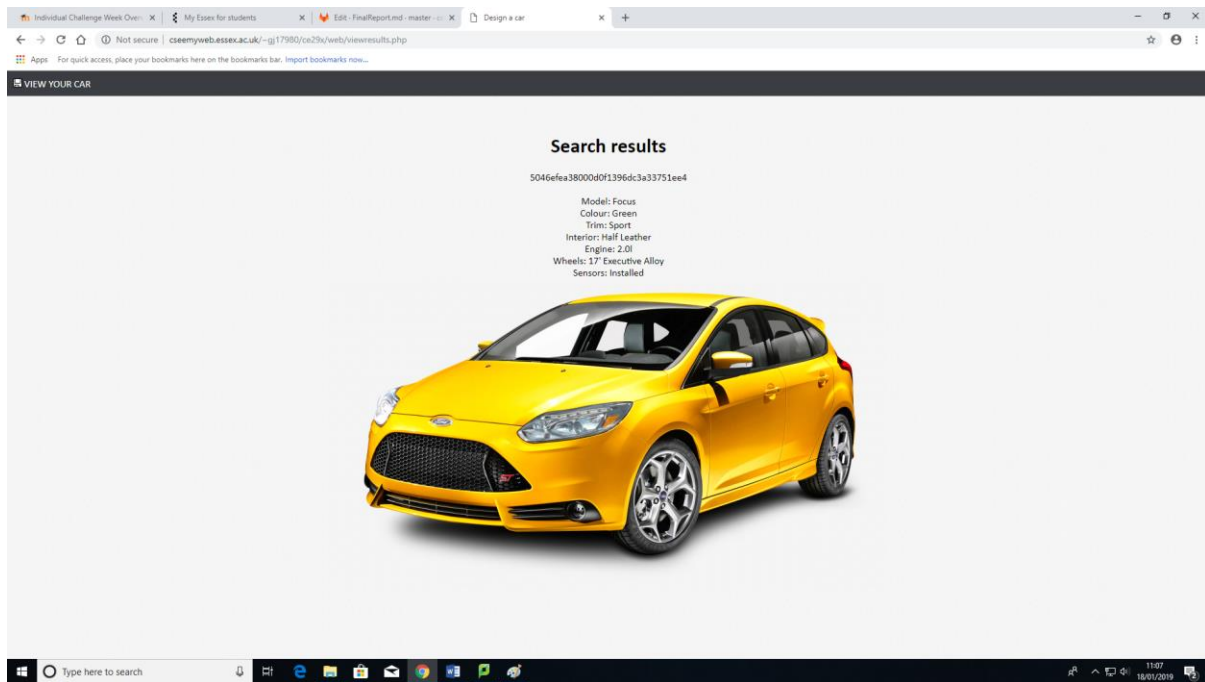
An email will then be generated and sent to the user, with their choices, and with instructions on how they can view their car again.



Find saved car

A user can enter a unique car hash into the search and display their car.





Admin pages

The admin page allows the administrator to view all tables in the database.

Individual Challenge Week Over... | My Essex for students | Edit: FinalReport.md - master... | Design a car

Not secure | cseemyweb.essex.ac.uk/~gj17980/cv29a/web/viewresults.php

Apps For quick access, place your bookmarks here on the bookmarks bar. Import bookmarks now...

VIEW YOUR CAR

Search results

5046efea3800d0f1396dc3a33751ee4

Model: Focus
 Colour: Green
 Trim: Sport
 Interior: Half Leather
 Engine: 2.0l
 Wheels: 17 Executive Alloy
 Sensors: Installed

Available MODELS

[View tables](#)
[Add new car](#)

car_colour

car_model_id	colour_id	colour_cost
Focus	Red	0
Focus	Green	0
Focus	Metallic Blue	1000
Fiesta	Red	0
Fiesta	Green	0
Fiesta	Metallic Blue	1000
Mondeo	Red	0
Mondeo	Green	0
Mondeo	Metallic Blue	1500
Mondeo	Matt Black	2000

car_engine

car_model_id	engine_capacity	engine_cost
Fiesta	1.0l	0
Fiesta	2.0l	1500
Fiesta	2.2l	1750
Focus	1.0l	0
Focus	2.0l	1500
Focus	2.2l	1750
Mondeo	1.4l	0
Mondeo	2.0l	1750
Mondeo	3.0l	3000

car_interior

car_model_id	interior_type_id	interior_cost
Fiesta	Full Leather	1000
Fiesta	Half Leather	500
Fiesta	Standard	0
Focus	Full Leather	1000
Focus	Half Leather	500
Focus	Standard	0
Mondeo	Full Leather	2000

Add a car

The admin page also allows an admin to add a new car. This will later be changed to add optional extras too.

