Sahid Raja Patel
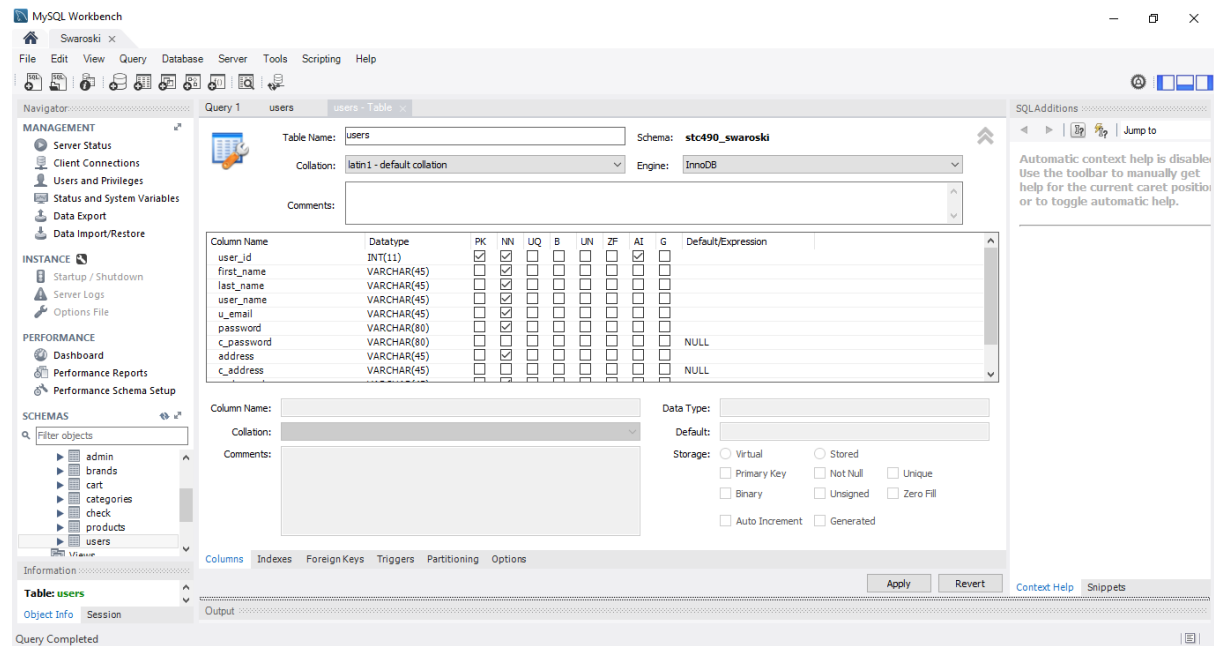
Computer Science

Group 3
Dr Chris Hughes


SSP – Report

# Contents

Application and database design decision

First I made the database for my application, This is the first approach I took before even starting the actual application this is because when I am developing the actual application then it becomes more of a time consuming, this is the reason why I made my database first. And for this I referred to workshop 8 because as it explains how to make the database for your project. I have made sure that all the database table is linked with foreign keys to other tables, I designed the way the tables will have a relationship to entities.

The user_Id is a foreign key to the basket table as a foreign key, also the item from the basket table is a foreign key to the item table. Why I used the design concept? I used this way to make sure that when the user buys a product, the user will auto generate in the database as stock control, this will be very efficient as the admin can see all the information about each product.

So, I have created a search bar with search capabilities which will allow the user to search for products in the database dynamically. Also the admin page I have created it has everything you need to configure in any aspect of the website. The checkout on the right will show all the details of the product with the price.
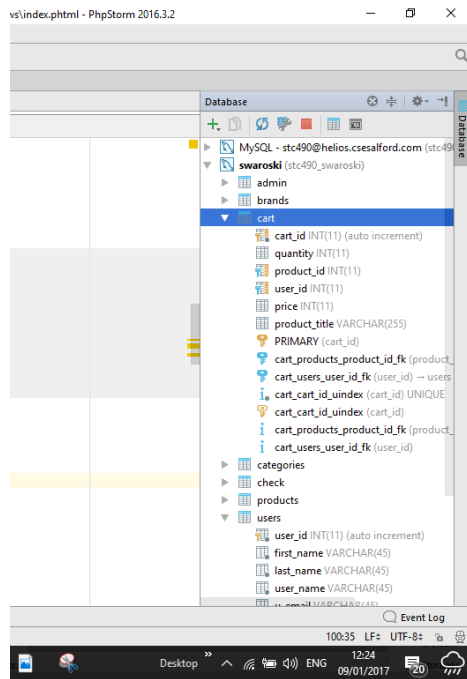
Understanding the SQL implementation, I have clearly shown foreign key attributes as you can clearly see the link between
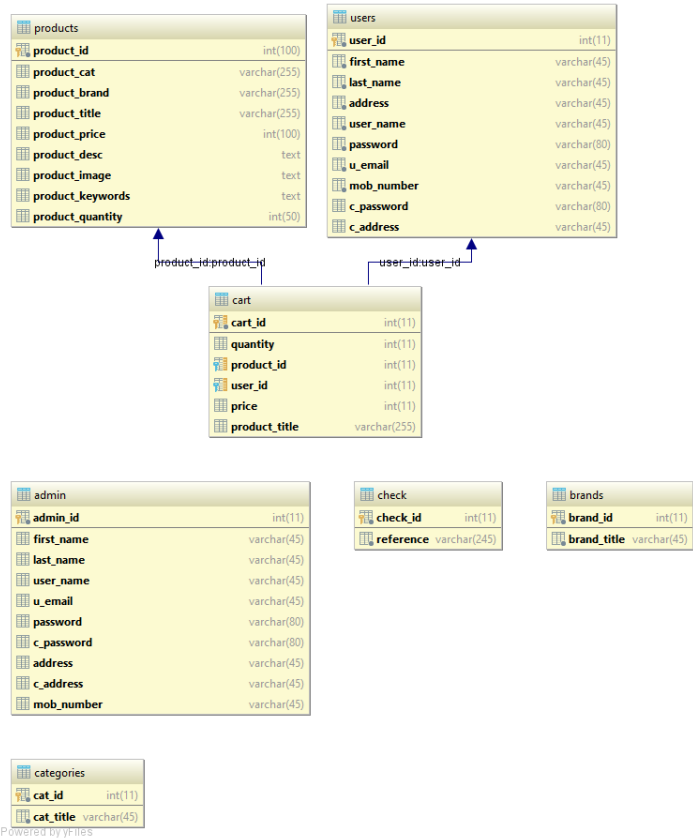
The relational Database relationship diagram, shows the links between each table as you can see above.

Security

Encryption

Password has been encrypted to ensure maximum protection for users, the password will contain long digits and hashes to make sure no password has been leaked. SQL Injection proof, you will not be able to hack into the database, so in my website I have engineered every concept in such a way to enhance ability for the users. If a random user decides to try adding random data will give validation errors so the user will not be able to access his or her account.

Also, taking in mind security is very important that's why I have used PDO function throughout my site, to ensure data is encapsulated. As security is the main important concept in today's world, using languages like php orientation can help with securing the site.

The main purpose of this task was to produce a web application for ecommerce purposes, to ensure that people can buy at least 10 items.

MVC , I have used the common MVC approach which is a Model , View Controller which keeps the PHTML which is mostly HTML and the PHP which is mostly kept in the model file structure. Everything is kept in such a way that a random programmer can develop different aspects of the project without having to affect other PHP.

Security

Functional testing screen shots
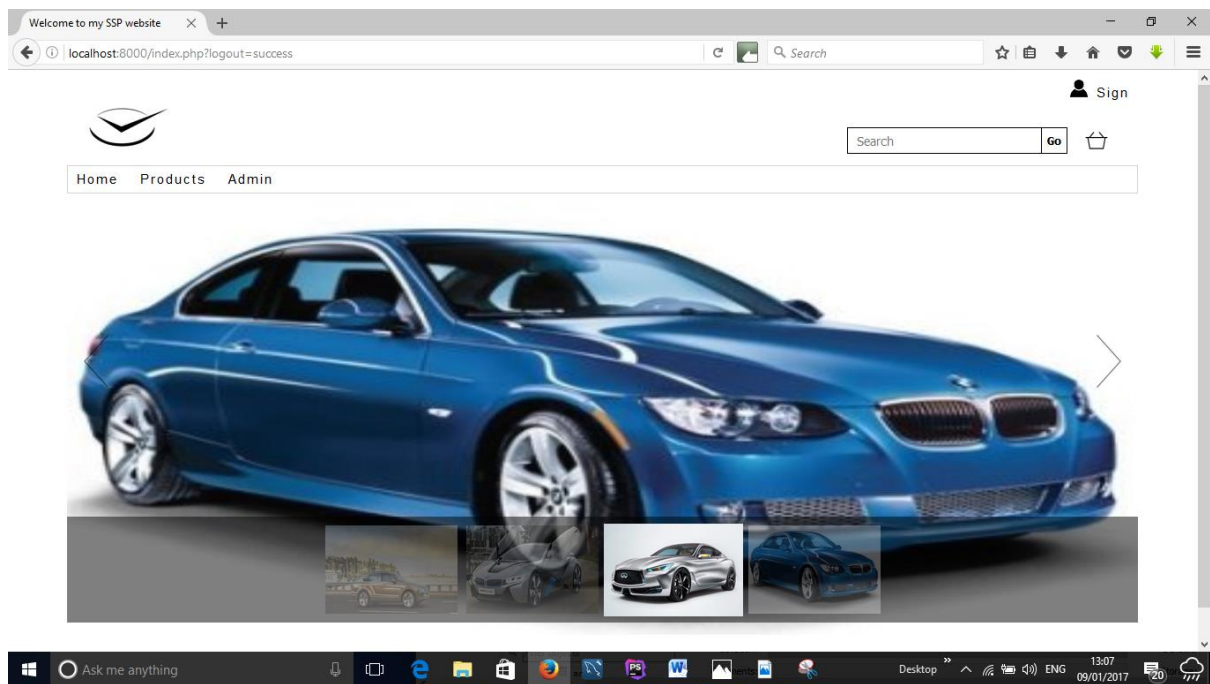
This is my home page, with JQuery slide, which I included.
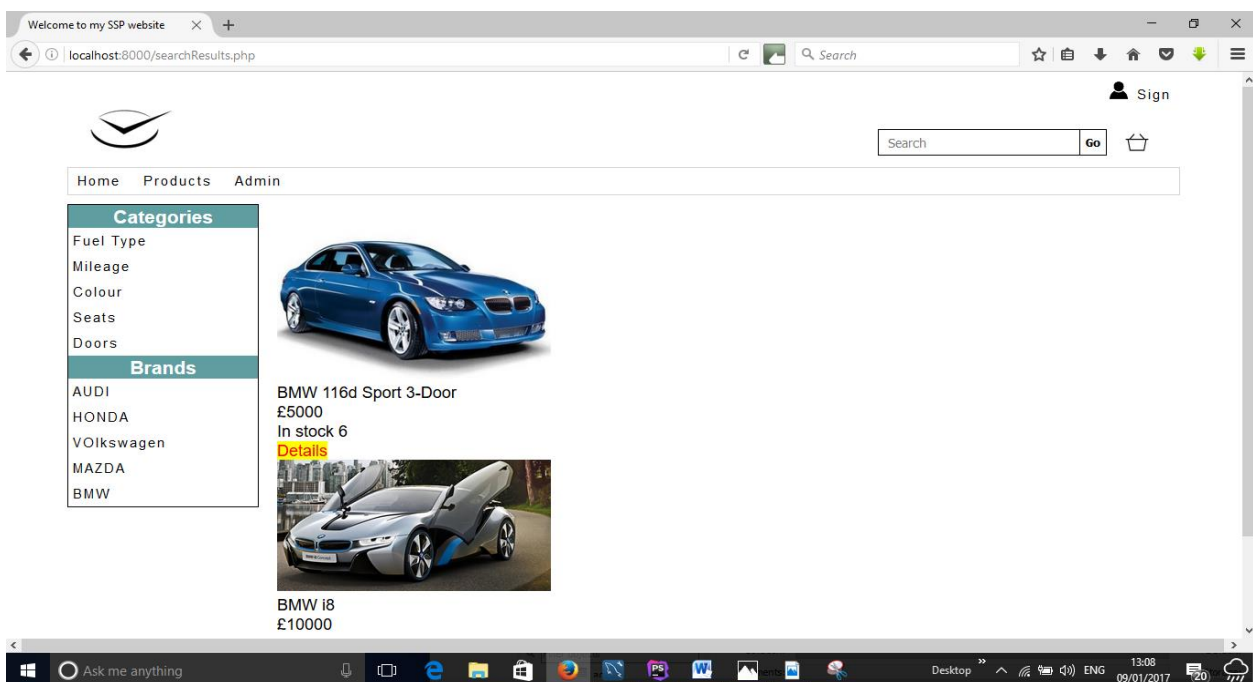
This filter which is shown here is that a search filter. So the search works like any other websites that are there on the internet so basically when you type a product only that product result is shown no other kind of results will be shown so that's the beauty of the search bar.
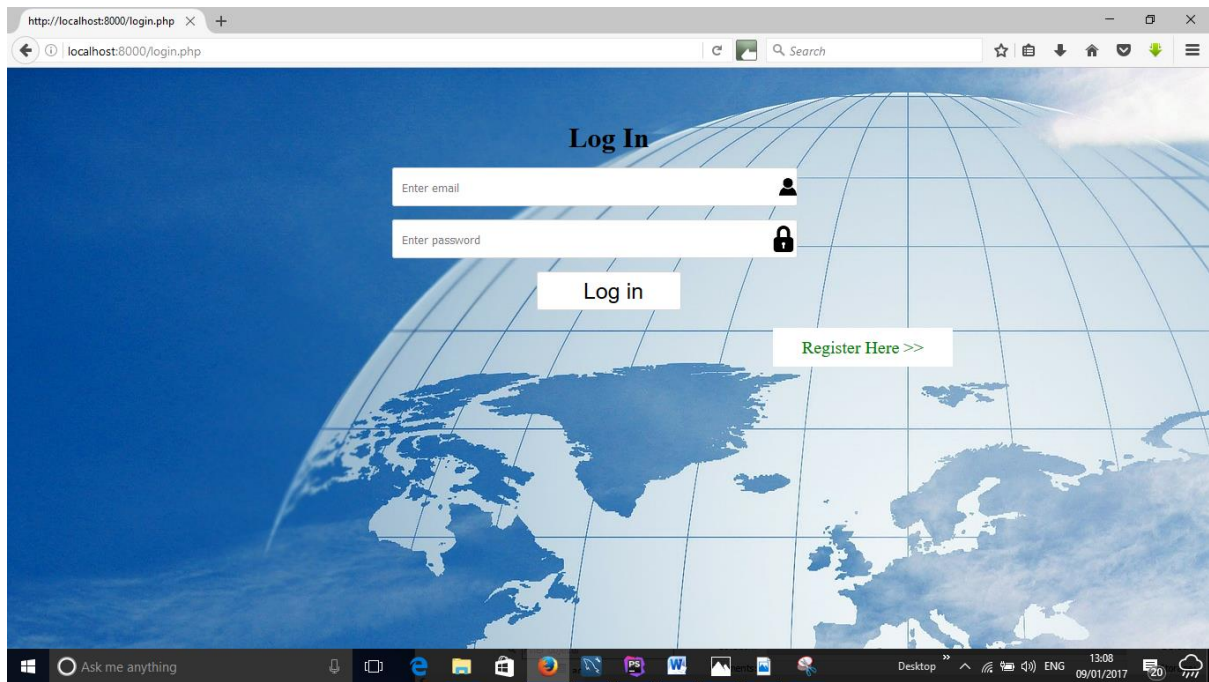
This is my login page , also you can register.
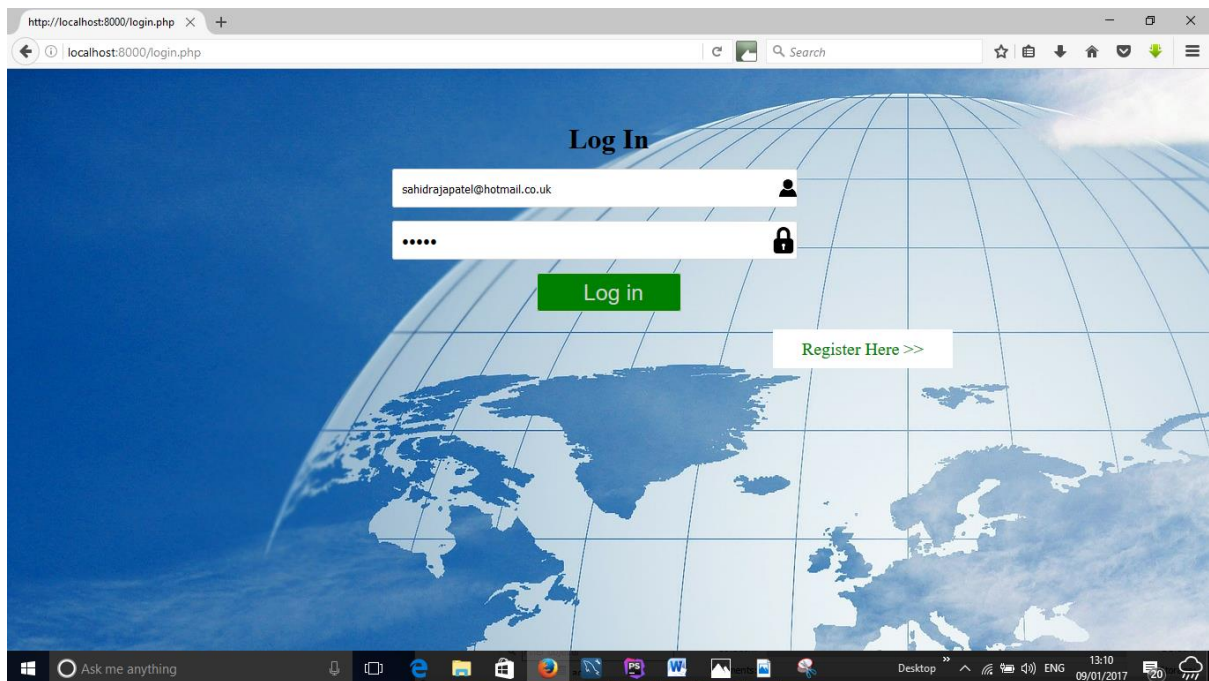
This is where I inputted my information, and where I can log in.
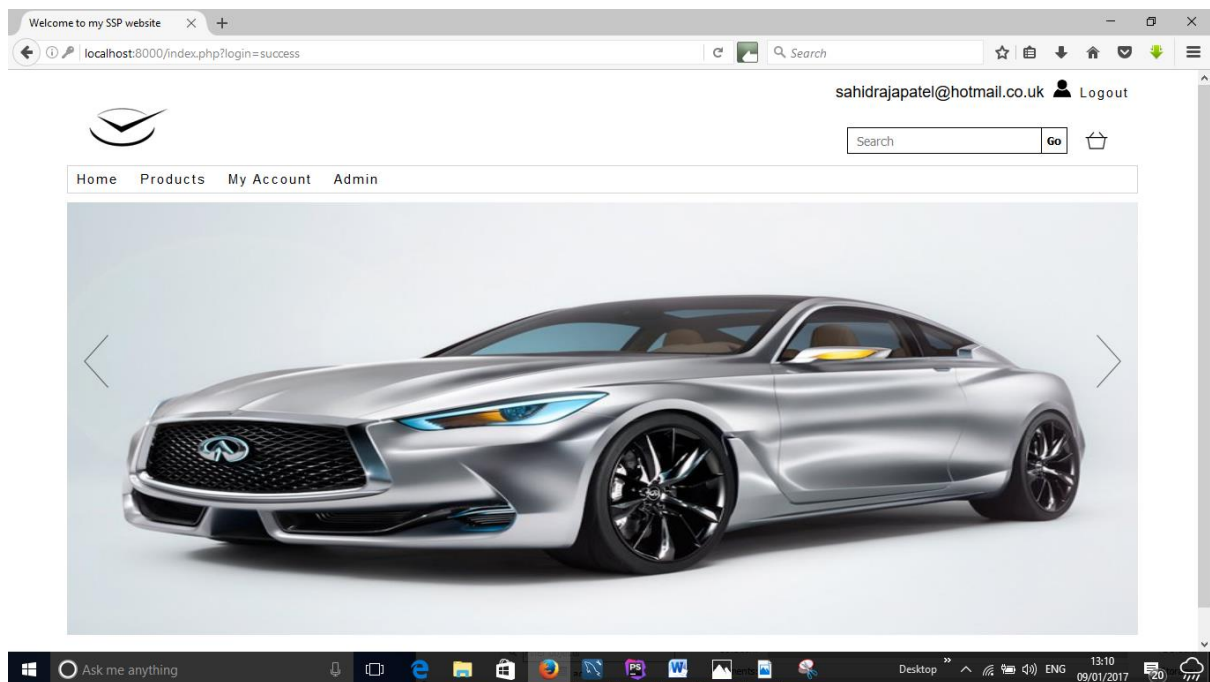
The user information, on the top right hand side with logout function. As the user logs the word log in changes to logout.
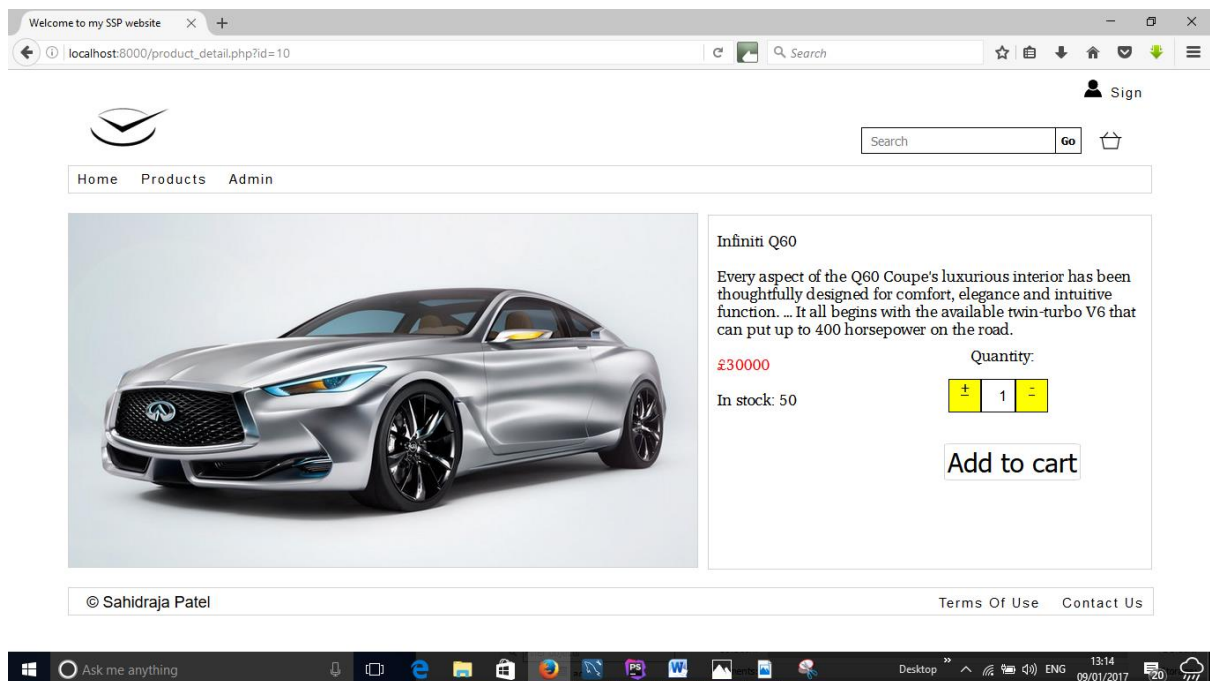

This is register form once the has filled all the details and when they press sign up then message appears saying you have successfully created an account.
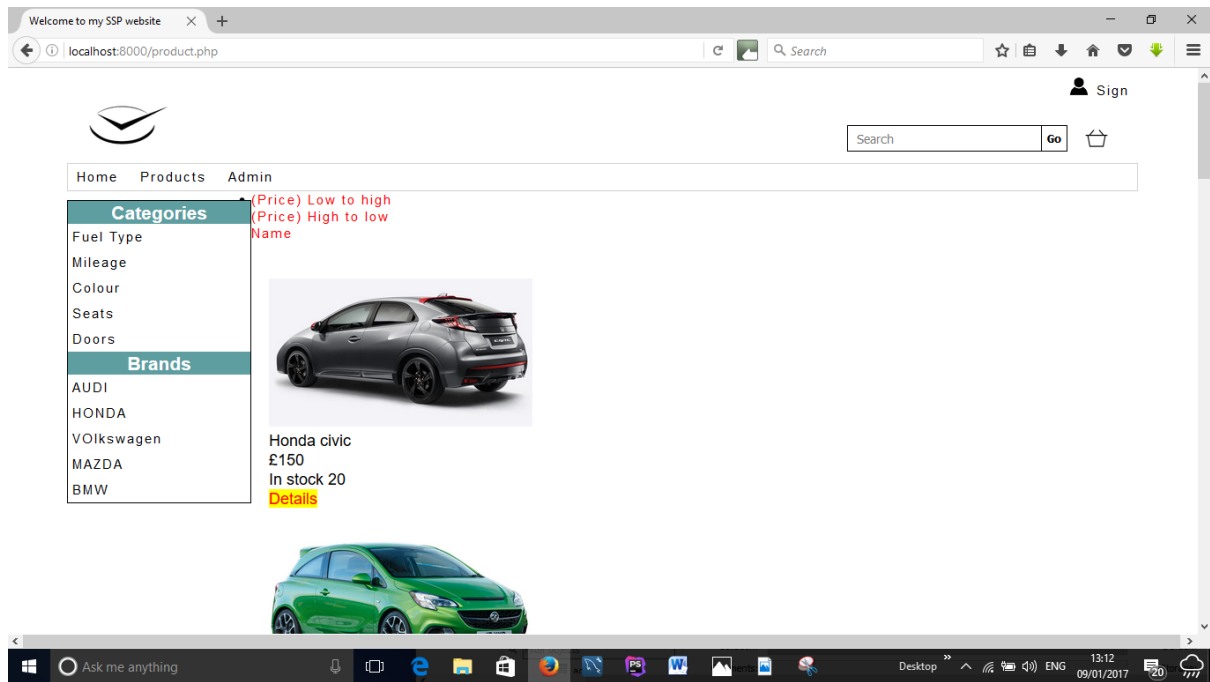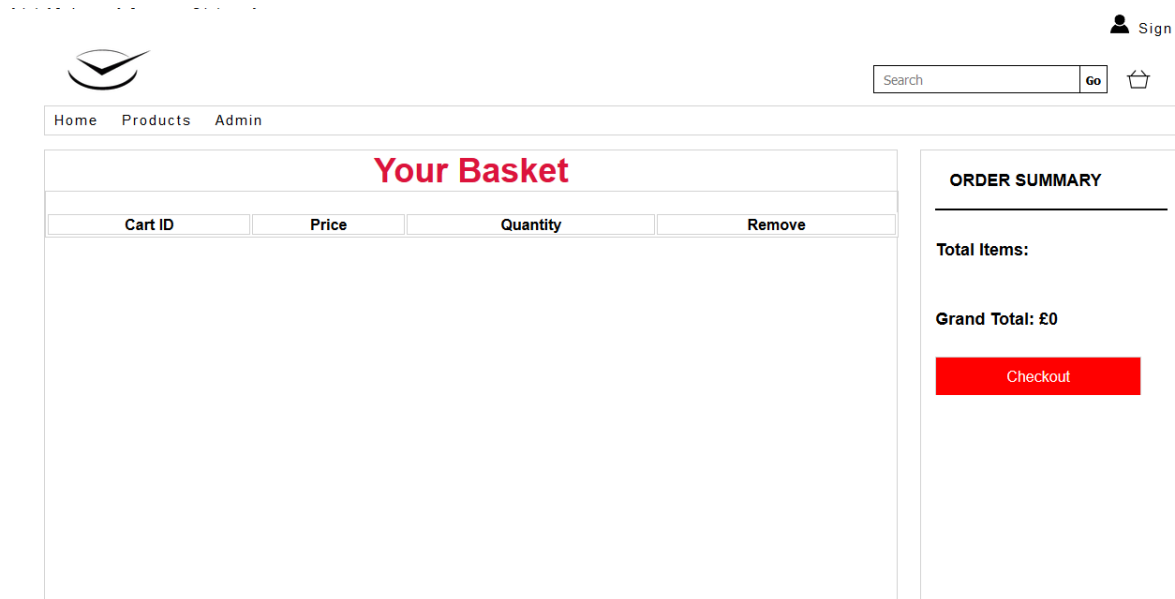
the sort function is shown on the product page so the condition of the sort function is that when you press a low to high link then the system automatically refreshes and sorts the products from lower price, same thing applies to high to low link but the difference is that it sorts the products from high to low.
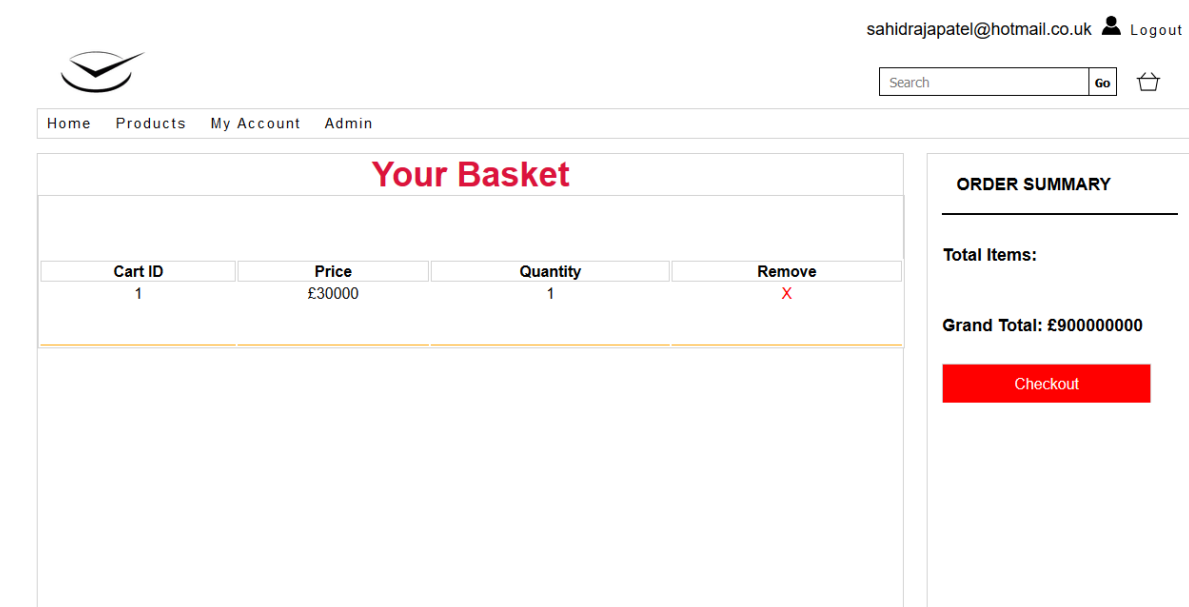
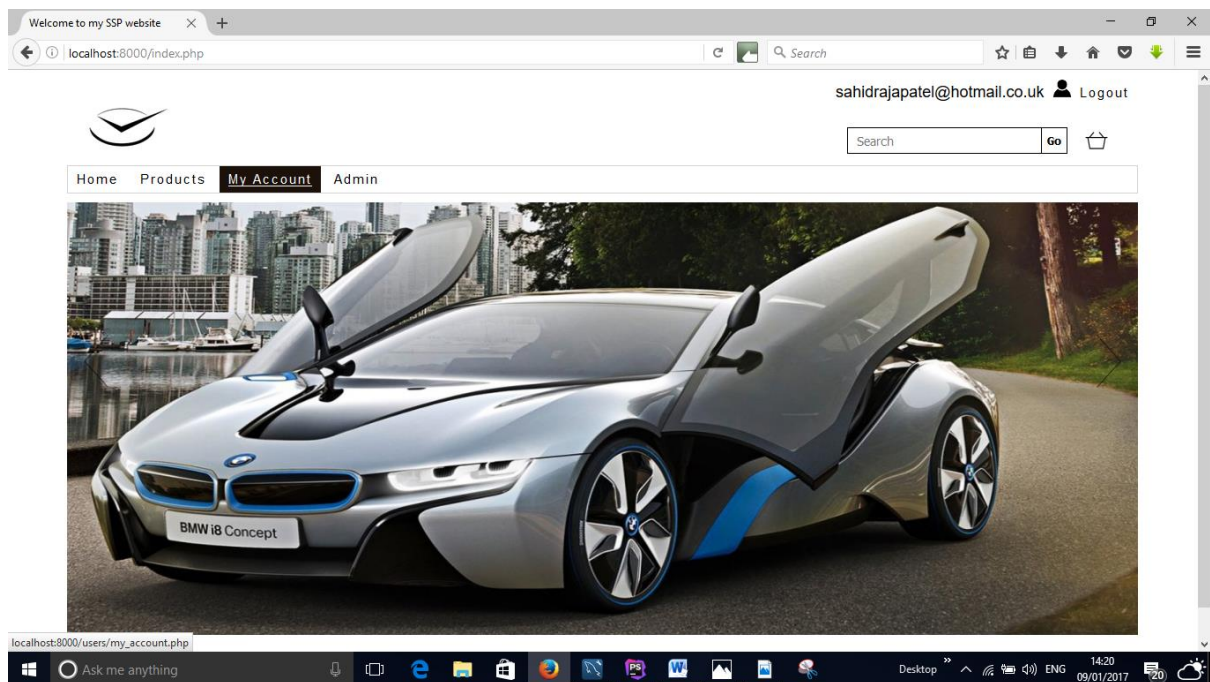The result to the sort function, it's changed the products.

This is a detail page, where you can specify the quantity.

Sign

Search | Go

Cart ID	Price	Quantity	Remove

Your Basket

ORDER SUMMARY

Total Items:

Grand Total: £0

Checkout

Home   Products   Admin

If the user is not logged in, then the user will not be able to add products to the basket.

sahidrajapatel@hotmail.co.uk   Logout

Search | Go

Your Basket

Cart ID	Price	Quantity	Remove
1	£30000	1	X

ORDER SUMMARY

Total Items:

Grand Total: £900000000

Checkout

Home   Products   My Account   Admin

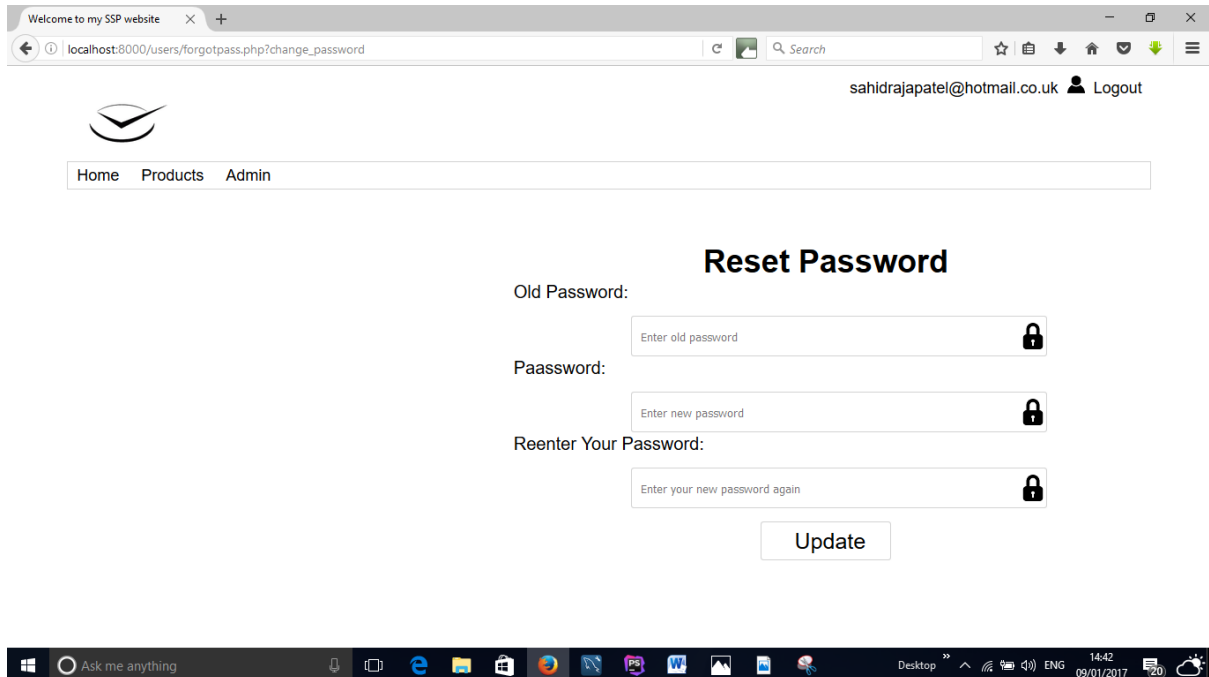When the user is logged in then the user will be able to buy things.

As you can see the my account link has now appeared this is because a user has logged in so the condition here is that it only appears only if the user has logged in.
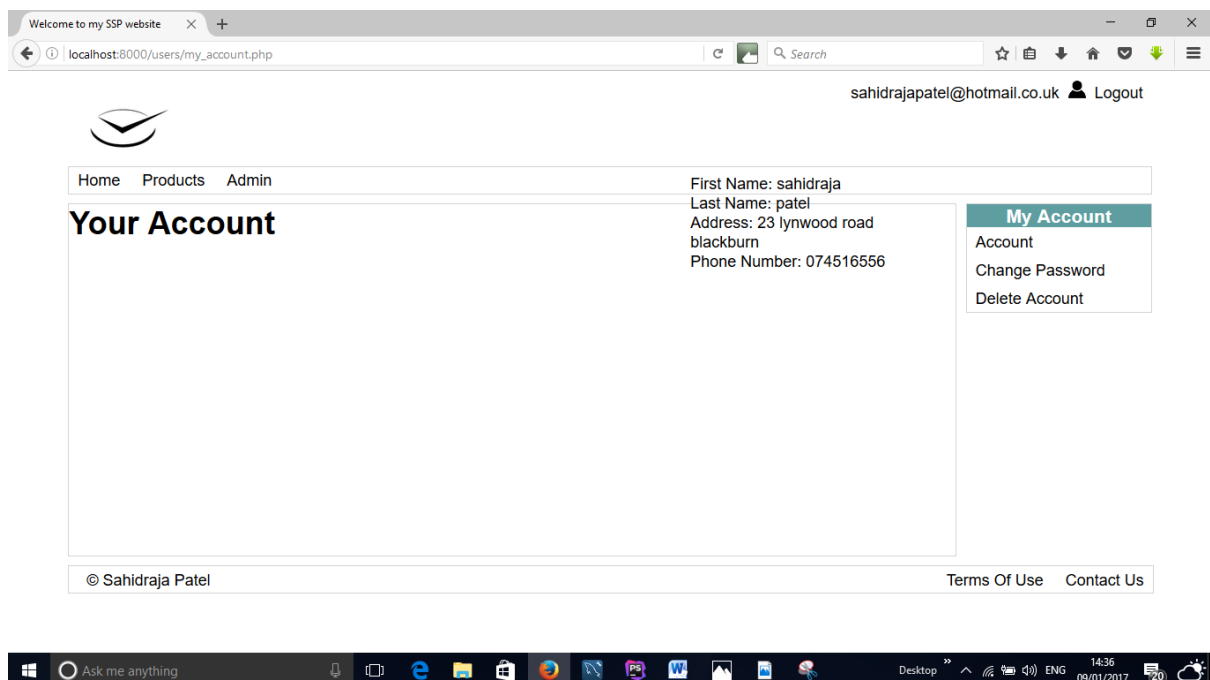
When a user press the my account button on the navigation bar then that link takes the user to their account page where all the relevant information are shown of that user who have

logged in. as you can the css on this page has not been clearly done therefore the information which is shown is not at its correct place.
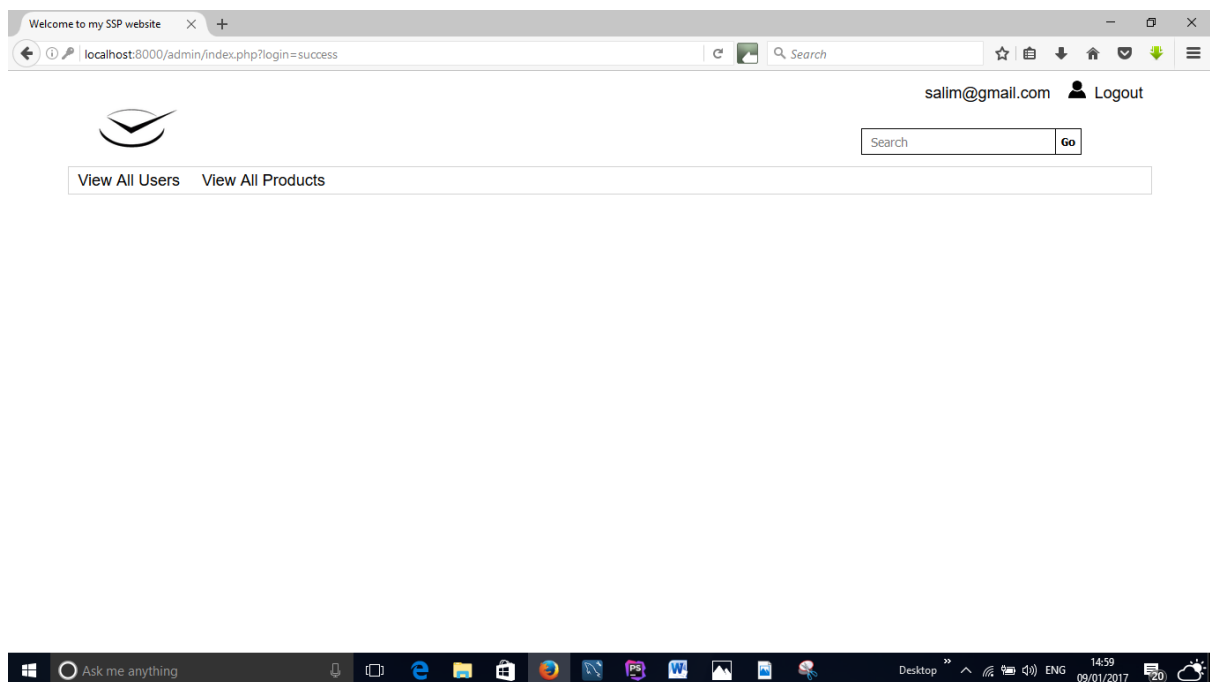

As the user click the change of password link then that user will be directed to this page where it asks the user to reset the password. If the password is changed by the user then the user will not be able t use their old password to log in fact even if they try to log in with their old password the system won't let them login as it parts of the process.
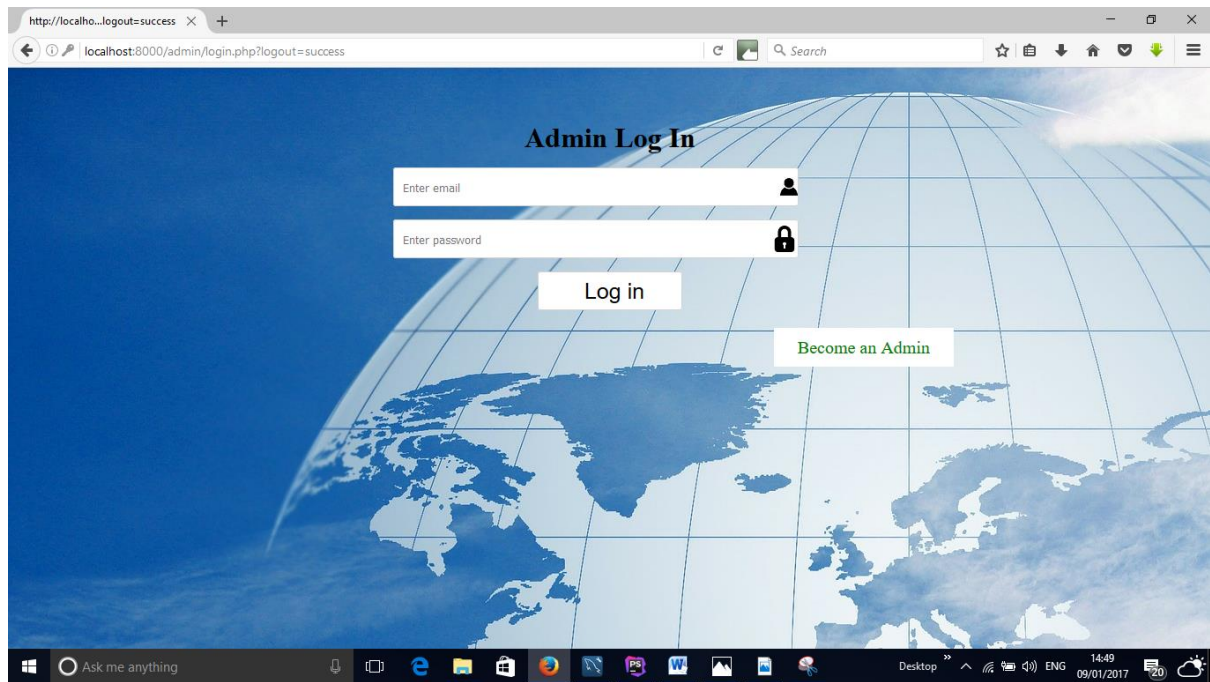
this is an admin log in page. So the purpose of having this is that the actual admin can log in to this and he or she has the ability to all the users who have registered on the website, he or she can also see all the products that are available on the website and if the admin wants to adjust the products or he or she can also add the product dynamically from the website to the website I did this because instead of adding the product from the database you just added from the website.

This is how the page looks like once the admin is logged in.

As the user clicks on the view all users link he or she will see the details of all the users who are registered as I have mention this above. The admin can delete the users.

As the user clicks on the view all products link he or she will see the details of all the products that are shown on the website as I have mention this above and admin can delete the products.

Self-reflection

Overall, I think this task for me was partially good I believe that some parts were difficult but I did the best I could to ensure that the best outcome is derived. I created an admin system, so the user can see all the admin users and the products and have the control to delete products and user add products dynamically to the site. Why I chose Cars as my website is due the interest of the of cars, so a user will first need to be user to buy cars in the site will need to register ad login to the system, the details for the user will be kept secret by the admin.

Taking in mind all things I have done throughout the module I have realised the object oriented is efficient yet powerful, the basic bootstrap was provided and I adapted easily to CSS as I have done this in the first year. At certain places I had errors on my website which was very hard to handle so therefore I had to do some research in order to see how I can fix that problem. Problems took some time to fix, but the slides were very helpful.

Enhancements and adaptions, I made certain things to my website to enhance the ability and user ability so it makes it easy for the user to buy things. The colour scheme is cordial so it appeals mass markets of population.

In future, I believe I would change a few things like, add email confirmation, responsiveness to the site so it can be used on all platforms. Time was a big issue, everything needed to completed in such a tight time frame, I believe I was ok with time management.

Self-reflection