

# Nuclear Motors: Ecommerce Solution

Professor: Joanne Filotti

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## Team Project

<u>DIMITRIADIS</u>	<u>JOHN</u>	<u>300765673</u>	<u>o62</u>
<u>GUNTER</u>	<u>JASON</u>	<u>300742344</u>	<u>o62</u>
<u>SAVCHENKO</u>	<u>GEORGE</u>	<u>300762109</u>	<u>o62</u>
<u>VILLARINO</u>	<u>ELAINE MAE</u>	<u>300749230</u>	<u>o62</u>

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# Project Scope

## Scenario

“Your employer, E-Solutions Inc., has won the bid for a contract to build an e-commerce web application for a smaller on-line retail store. You will use Microsoft Visual Studio 2012 to develop the application that could be additionally deployed using the MS Cloud Computing solution.”

In short, build a collection of .aspx documents that allow users to navigate the web site and select the products they want to purchase. All the while upholding the factors of aesthetic and its range of capabilities of the utmost importance. Furthermore, the use of a master page and CSS is suggested for a better layout and navigation in the finalized developed application.

## Deliverables

1. Web Documentation,
2. Weekly deliverables during the development period,
3. The finalized design and functionality of the web application

## Tasks and Deadlines

1. Choose team members and confirm with teacher.
2. Choose product to feature for the project and the special features of site. Confirm with teacher.
3. Find a platform to share code and unify all changes to code.
4. Locate related pictures and information to use in project.
5. Create the master page and its specific contents.
6. Create a unified design via css.
7. Develop the code needed for the special features and integrate it into the project.
8. Verify project file contents and zip it for submission along with the respective documentation.

## Summary

Visitors of Nuclear Motors will reach the home page of the online store. Here they are welcomed by an appealing interface that allows them to select a certain product category. Once they select the preferred category and click on it, a list of the products available in the chosen category is displayed on the screen. Each category is specified and narrowed down, so no one product would appear in the other category. For example, a car fluid would not appear in the vehicle category.

Furthermore, each product selected for purchasing will be added to the customer's shopping cart. The client may choose to see their shopping cart from time to time. They should be able to remove items that they no longer want to purchase. If they have chosen to add the same product from the single product page, the quantity of the product in the shopping cart will automatically updated.

When the user is done browsing and picking products, they may choose to checkout and place the purchase order. The application will allow the shoppers to pay using the PayPal service.

## Github History

Commits on Nov 7, 2014



### Initial commit

gsavchenko authored on Nov 7



b55474e



Commits on Nov 8, 2014



### Proofreading, how does that work?

gsavchenko authored on Nov 8



4b8cec1



### More formatting changes

gsavchenko authored on Nov 8



43fa492



### Update README.md

gsavchenko authored on Nov 8



894a24a



### Formatting Changes

gsavchenko authored on Nov 8



6f5eabc



### Formatting Changes

gsavchenko authored on Nov 8



9286b60



### Basic Setup Instructions

gsavchenko authored on Nov 8



2564ced



### Project Template Files

gsavchenko authored on Nov 8



ccbe9b2



Commits on Nov 9, 2014



### Update README.md

gsavchenko authored on Nov 9



06fa796



\*Within the period of November 9, 2014 and November 22, 2014. All data (pictures and information) were compiled and edited. Furthermore, the creation and modifying of the user interface and its appearance was done during this time i.e. the master page and css.

Commits on Nov 22, 2014



### Create DB Script

jgunter7 authored 20 days ago



abba6f6



### Added SQL DB Backup

jgunter7 authored 20 days ago



62f50e4



### Update README.md

jgunter7 authored 20 days ago



01ae422



### Update README.md

jgunter7 authored 20 days ago



30b11d8



### Update README.md

jgunter7 authored 20 days ago



2d168e8

































### Update LICENSE

jgunter7 authored 20 days ago

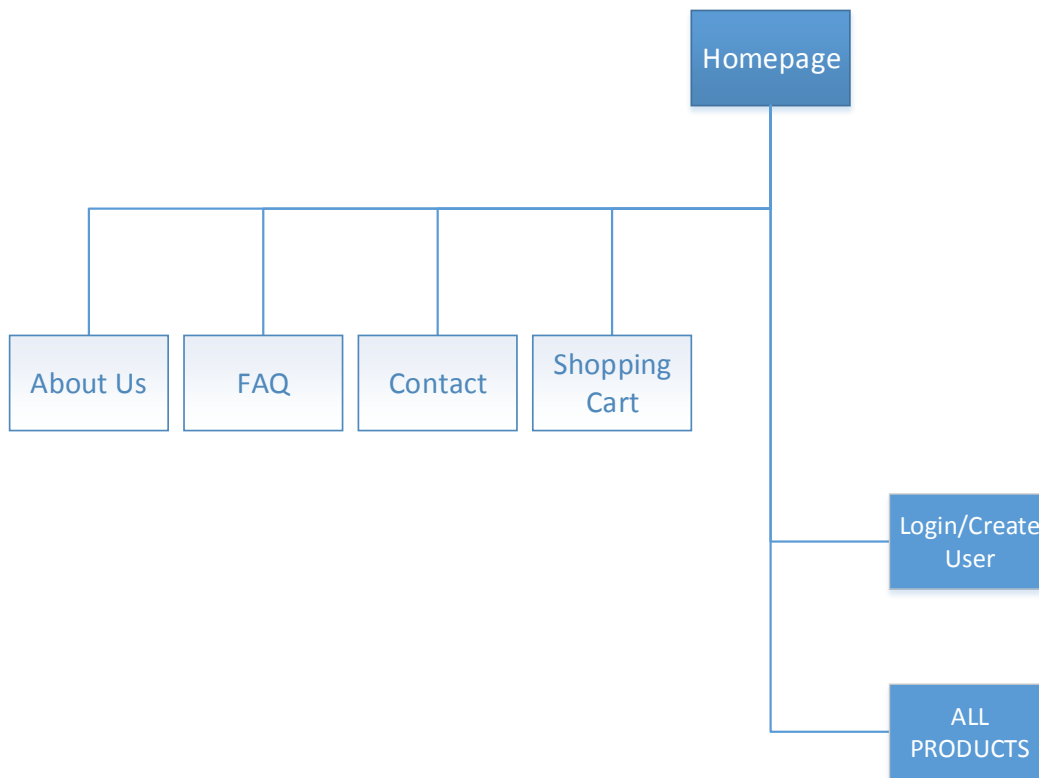
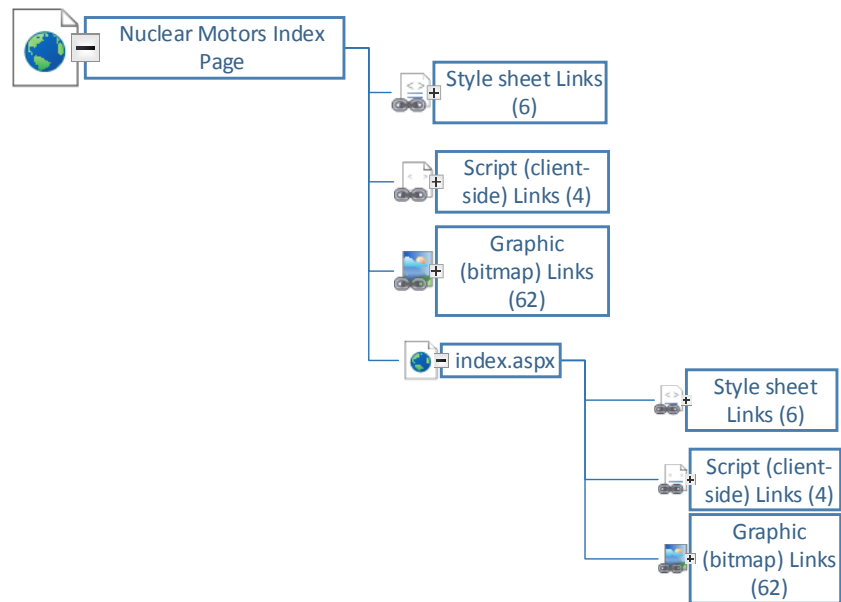


8361119



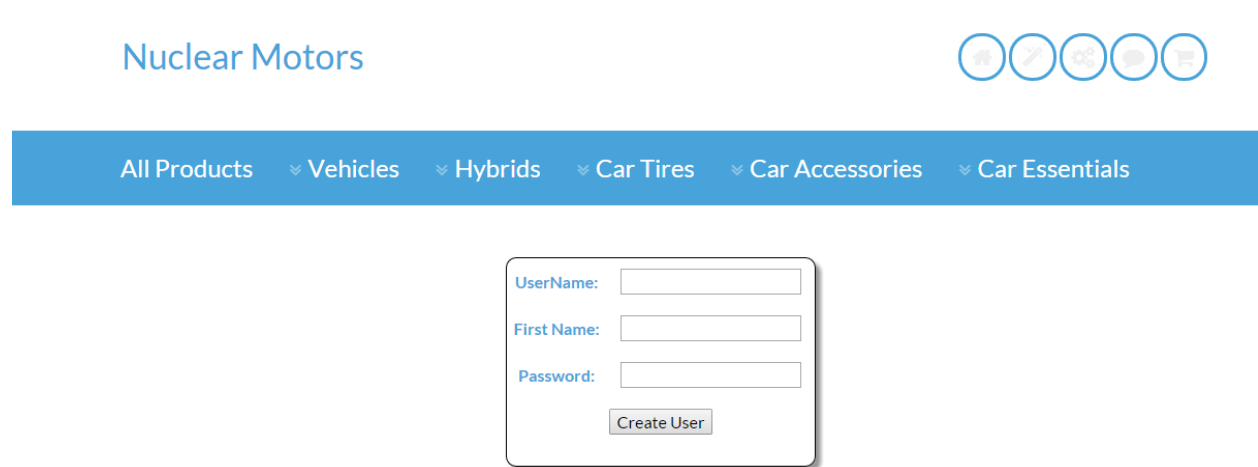
Commits on Nov 28, 2014	
 <b>Products Page for all or 1 product</b> ... jgunter7 authored 14 days ago	 9aec300 
 <b>DB Connection first commit</b> ... jgunter7 authored 14 days ago	 826467e 
 <b>First Website Commit</b> ... jgunter7 authored 14 days ago	 ce9c828 
Commits on Nov 29, 2014	
 <b>Product Page Update</b> ... jgunter7 authored 13 days ago	 c5fa6e5 
 <b>Product page updates</b> ... jgunter7 authored 14 days ago	 393eebc 
Commits on Dec 1, 2014	
 <b>Product, Login, Cart Page Updates</b> ... jgunter7 authored 11 days ago	 49bce78 
Commits on Dec 5, 2014	
 <b>New table display</b> jgunter7 authored 7 days ago	 28a9c72 
Commits on Dec 7, 2014	
 <b>Big Update</b> ... jgunter7 authored 5 days ago	 6bccca26 
Commits on Dec 8, 2014	
 <b>Added Paypal Payment</b> jgunter7 authored 4 days ago	 e174b9f 
Commits on Dec 9, 2014	
 <b>Added Database Scripts</b> jgunter7 authored 3 days ago	 16a1c30 

# Site Diagram



# Web Form Screenshots

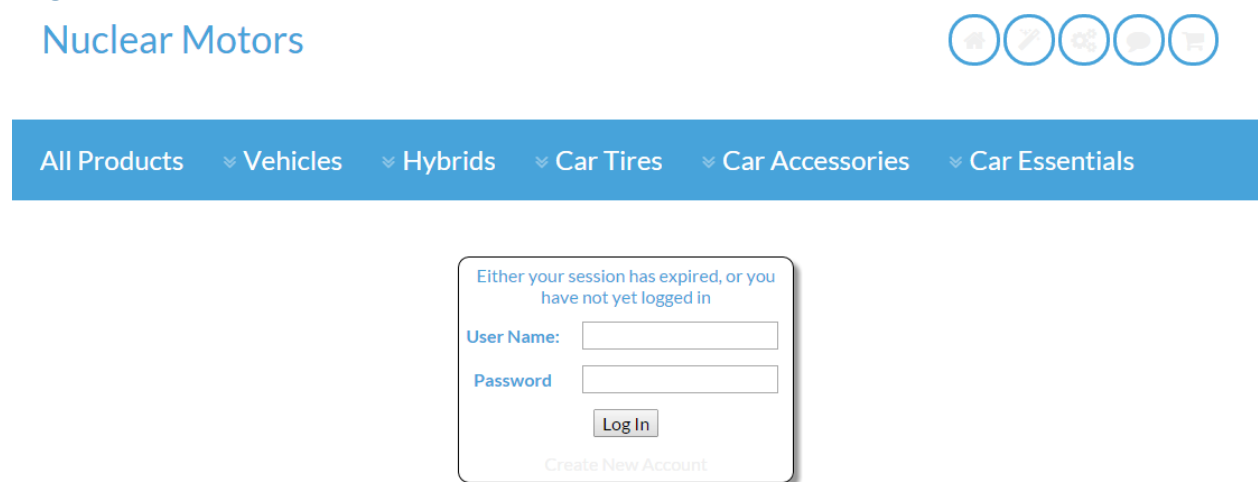
## Create User



The screenshot shows the 'Create User' form in the Nuclear Motors web application. The page header includes the 'Nuclear Motors' logo and five circular icons representing different features. A blue navigation bar contains links for 'All Products', 'Vehicles', 'Hybrids', 'Car Tires', 'Car Accessories', and 'Car Essentials'. The form itself is a white box with a light blue border, containing three input fields labeled 'UserName:', 'First Name:', and 'Password:'. Below these fields is a 'Create User' button.

Figure 1: To fully maximize user experience, all customers are required to create a username, and their password. Also, users must input their first name for identification purposes.

## Login



The screenshot shows the 'Login' form in the Nuclear Motors web application. The page header includes the 'Nuclear Motors' logo and five circular icons representing different features. A blue navigation bar contains links for 'All Products', 'Vehicles', 'Hybrids', 'Car Tires', 'Car Accessories', and 'Car Essentials'. The form is a white box with a light blue border, containing a message: 'Either your session has expired, or you have not yet logged in'. Below this message are two input fields labeled 'User Name:' and 'Password'. A 'Log In' button is positioned below the fields, and a 'Create New Account' link is at the bottom of the form.

Figure 2: Thereafter, this page appears if the user has not logged into the system and/or their session has timed out after 10 minutes. Users are prompted to input their registered username and password. Clicking log in completes the login transaction and the user can now add products and access their shopping cart.

## All Products

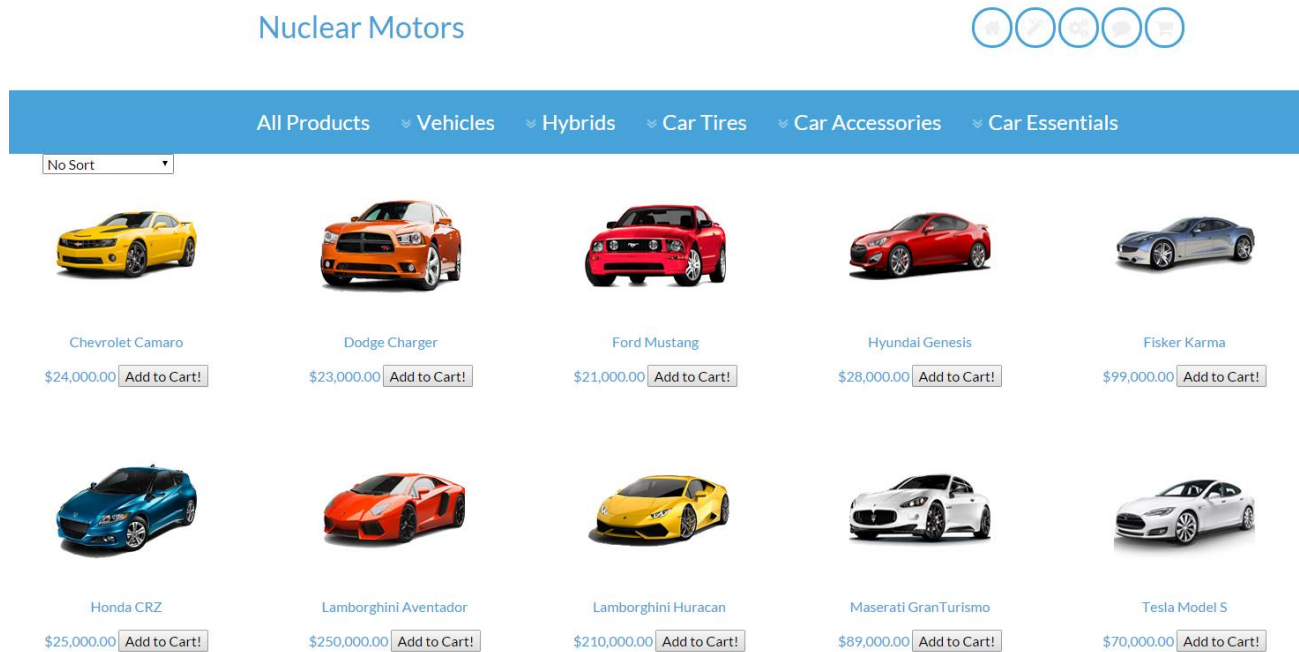


Figure 3: If the user selects the all products tab on the navigation, they are taken to a generated list of all the products regardless of their category. In addition, users are also given the option to sort the listings via the dropdown box on the upper left. Sorts include: Price Low to High and Price High to Low. This function was one of the special features stated by the group. By the way, from this page, without clicking on the single product view page users are allowed to add products to their cart.



## Single Product Sample

Nuclear Motors



All Products ▾ Vehicles ▾ Hybrids ▾ Car Tires ▾ Car Accessories ▾ Car Essentials

Dodge Charger



Current Price:

\$23,000.00

Add to Cart

Figure 4: Upon selecting a single product, either from the All Products page or its spot in the navigation, you are taken to a similar page like the one above. This page displays the name of the product on the top center of the content. Underneath the title, you are shown a large picture of the said product. Next below the picture, you are shown the current listing price of the product and a button to add it to your cart.

## Shopping Cart

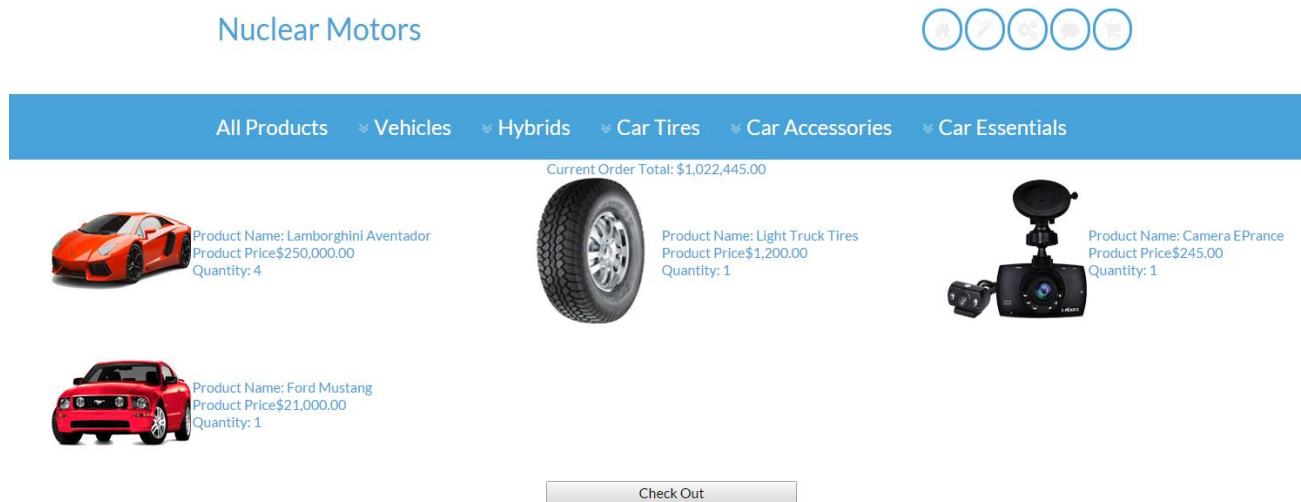


Figure 5: The shopping cart consists of all products that have been chosen to “Add to Cart” by the registered user. If the user has not logged in, this page would not be generated. The order’s total price is displayed in the top-center of the content. Below products are listed in three columns for an organized display. Underneath the list of products is the Check Out button, clicking this button will send the user to the PayPal site where they have full payment options through their service. The shopping carts total will get transferred over to PayPal.

## Check Out and PayPal

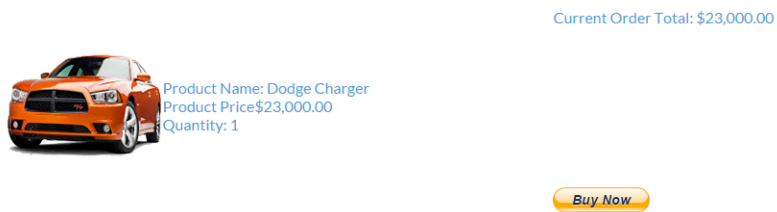


Figure 6: After checkout button is pressed.

## Nuclear Motors

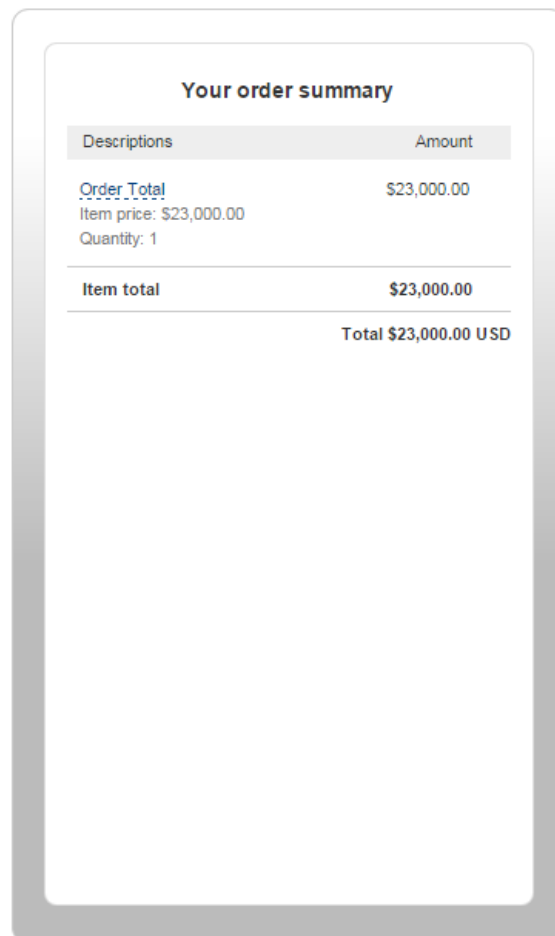


Figure 7: Cropped photo of the actual PAYPAL page that loads up

## Additional Features

The interface is fully responsive to provide an optimal viewing experience, and will scale up or down depending on the device used to view the web site - either computer or smartphone. The website is also fully compatible with all major web browsers and adheres to the standards of easy readability and navigation.

The banner along the top contributes to the responsive design; all products are available through an easy to use interface which is out of the way when not in use.

We implemented a basic login system that requires users to log in using a username and password before they are allowed to continue with their purchases.

## Security Features

Creating a unique session ID for each user. To access the cart page, users are required to create a username and password. In addition, each session times out at 10 minutes to verify whether user is currently inactive. This could be set higher or lower, but we just used the default setting for the project.

## Encountered Challenges

One of our additional features was supposed to be a rating system for the user to rate their purchases. This feature was never implemented due to time constraints; we added in username security instead.

# Team Evaluation

- John Dimitriadis
  - The go-to-person for solving problems that any particular member does not know how to unravel.
  - Collaborated on managing the database
  - Collaborated on building the website
  - Collaborated on typing the web document
- Jason Gunter
  - Collaborated on managing the database
  - Collaborated on building the website
- George Savchenko
  - “Code Master”
  - Collaborated on managing the database
  - Collaborated on building the website
- Elaine Mae Villarino
  - Design the User Interface of the application
  - Collaborated on building the website – design-wise
  - Managed all media to be used – images and information
  - Collaborated on typing the web document