



## User Manual

### **Eastern Equipment Innovation Web Application:**

Eastern Equipment Innovation is a web application built for Adrian Rigsbee to both display and sell his products that he sells through a company Hunter Engineering. For this application it runs a database that holds the products he sells and gives him admin rights to add other products he wishes to sale on this web page. There are multiple servlets/controllers that are used in this web application that will be discussed in this user manual for both the owner and future developers of this web page. The main controllers used for this application is the email servlet, the user servlet, and the products servlet.

### **email Servlet:**

The email servlet is used for the form page of the application. When the user enters in the three required fields of this form page it sends a email to the admin of the account (which for testing purposes it is my student email). The three fields are name, phone number, and email address. The email address and name field is required for this form but not the phone number because if the user wants to receive their reply through email the phone number is not required. (refer to figure 1-1 and 1-2 for showing form fields filled and submission results).

## **Form**

Contact Us by Giving us your Contact Info

Enter your Name:  
Russell Rigsbee

Enter your Phone Number:  
336-555-5555

Enter your Email:  
rrigsbee@uncc.edu

Submit

[Home Page](#) [Form Page](#)

**Thank you for your Feedback!**

**Figure 1-1 and 1-2: Form Page Fields Filled and Submission Results**

### **User Servlet:**

The user servlet is used for holding account credentials such as user name and password. We use this servlet to show the accounts that have access to editing the database (which is [admin@gmail.com](mailto:admin@gmail.com)). This controller is also used for creating an account to the webpage and then the information provided by the user is written to the database where their account credentials are stored. When the user or admin logs into the application successfully it redirects them to the shopping page and on the navigation bar shows their signed in user and a link to log out of their session. (refer to figure 2-1 for signing up to a new user account and figure 2-2 and 2-3 for both logged in and non logged in users being shown in the session).

Sign Up

Enter your Email

Enter your Password

**Figure 2-1: Signing up a new user account**

Shopping Page   Login Page   Welcome jjan@hotmail.com   Signout

Home Page   Form Page   Shopping Page   Login Page

Description	Price	Buy
move the tires off a rim	799.99	<a href="#">Buy</a>

**Figure 2-2 and 2-3: Logged in session and non user logged in session**

### **Product Servlet:**

The product servlet is the main guts for this webpage because this is what holds all the items that the admin sells through hunter engineering. When the admin is logged into the user servlet they are given access to editing the product servlet. For this servlet the admin is given basic CRUD(create, read, update, delete) functionality. When the admin chooses to add a product to the database they can fill in the items they want to add to the shopping page. For the image input they can include a link of a image that is online and the image is displayed in thumbnail size for them to view the item(100 character limit). The item name is the primary key for this database because the name can be absolute(but still editable). Item price is a standard double variable and description is a 200 character long description of the item.

The reading functionality of the product servlet is the shopping page table that shows all items in the database on the main page. When the admin wants to update any values to this page they can click the button to edit the item and the same page that was used to create the item will appear but with all text fields auto filled with the information from the database and they will be able to change values of the fields and once submit is clicked the changes will immediately happen and be displayed on the table in the shopping page. If the admin wants to delete an item they can click the delete item link that is in the table that the specific item that is chosen to

be removed will be dropped from the database table and the new changes will be displayed on the shopping page table. (Refer to figure 3-1 for the Admin Controller showing CRUD Functionality and figure 3-2 for other users controllers).

Navigation Bar

[Home Page](#)

[Form Page](#)

[Login Page](#)





Welcome admin@gmail.com

[Logout](#)

Shopping Page

Here are the products I sell through Hunter Engineering.

[Add Item](#)

Picture	Item Name	Description	Price	Buy	Edit	Delete
	Tire Remover	This product helps remove the tires off a rim	799.99	<a href="#">Buy</a>	<a href="#">Edit Item</a>	<a href="#">Delete Item</a>
	Lift Kit	This product helps lift the vehicle for alignment changes	1999.99	<a href="#">Buy</a>	<a href="#">Edit Item</a>	<a href="#">Delete Item</a>
	Tire Remover Grip	This product helps grip the tire for easy removal	299.99	<a href="#">Buy</a>	<a href="#">Edit Item</a>	<a href="#">Delete Item</a>
	Tire Remover Kit	This product is the full kit for tire removal	1299.99	<a href="#">Buy</a>	<a href="#">Edit Item</a>	<a href="#">Delete Item</a>

Navigation Bar

[Home Page](#)

[Form Page](#)





[Login Page](#)

Welcome Ted@yahoo.com

[Logout](#)

Shopping Page

Here are the products I sell through Hunter Engineering.

Picture	Item Name	Description	Price	Buy
	Tire Remover	This product helps remove the tires off a rim	799.99	<a href="#">Buy</a>
	Lift Kit	This product helps lift the vehicle for alignment changes	1999.99	<a href="#">Buy</a>
	Tire Remover Grip	This product helps grip the tire for easy removal	299.99	<a href="#">Buy</a>
	Tire Remover Kit	This product is the full kit for tire removal	1299.99	<a href="#">Buy</a>

**Figure 3-1 and 3-2 Admin Controller With CRUD Controls and Other Users Controllers**

### Checkout Session:

The checkout page for this web application does not have a cart system because the quantity of the items that the customer can buy at a time is limited by the admin to one item per transaction. When the customer clicks the buy item link on the shopping page the user is redirected to the checkout page where they input the credit card information. Once the information is inputted and they click submit, they will be redirected to a page that says thank you for your purchase. (refer to figure 4-1 and 4-2 to see the checkout session of the web application).

Tire Remover Kit

1299.99

#### Checkout Information

Enter your Credit Card Number

1234567891234567

Enter your Expiration Date

Expiration Date May 2020

Enter your CVV Number

856

Submit

[Home Page](#)
[Form Page](#)
[Checkout Page](#)

## Thank you for your Purchase!

**Figure 4-1 and 4-2: Checkout Page Input Fields and Thank You Message Results**