

<u>User Manual</u>

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).

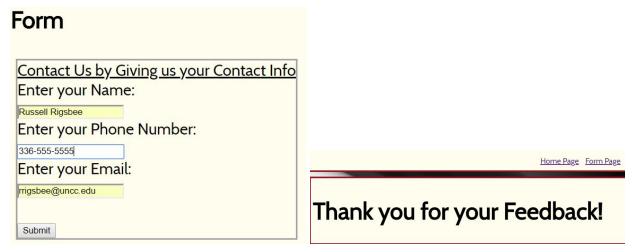


Figure 1-1 and 1-2: Form Page Fields Filled and Submission Results

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). 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).



Figure 2-1: Signing up a new user account



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).

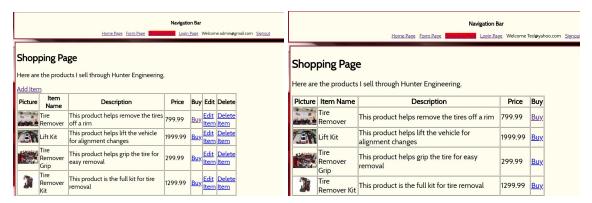


Figure 3-1 and 3-2 Admin Controller With CRUD Controls and Other Users Controllers

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, the 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).

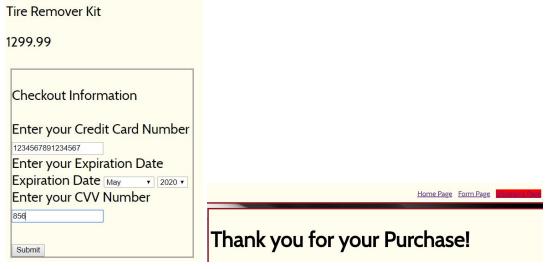


Figure 4-1 and 4-2: Checkout Page Input Fields and Thank You Message Results