Software Requirements Specification

for

Small Business Toolkit

Prepared by

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Course: CSCI U540 – Software Engineering

Date: September 27th, 2018

Contents

<In this template you will find text bounded by the "<>" symbols. This text appears in italics and is intended to guide you through the template and provide explanations regarding the different sections in this document. There are two types of comments in this document. The comments that are in black are intended specifically for this course. The comments that are in blue are more general and apply to any SRS. ***Please, make sure to delete all of the comments before submitting the document.***

The explanations provided below, do not cover all of the material, but merely, the general nature of the information you would usually find in SRS documents. It is based on the IEEE requirements and was adapted specifically for the needs of the Software Engineering course. Some sections in this document are required for your group to complete, and other sections are optional. Optional sections will be explicitly marked as optional.

1 Introduction

<TO DO: Please provide a brief introduction of your project and a brief overview of what the reader will find in this section.>

1.1 Product Purpose

<Provide a short description of the software being specified and its purpose, including relevant benefits, objectives, and goals.
TO DO: 1-2 paragraphs describing the purpose of the product. Make sure to describe the benefits associated with the product.>

1.2 Intended Audience and Document Overview

<Describe the different types of reader that the document is intended for, such as developers, project managers, marketing staff, users, testers, and documentation writers (In your case it would probably be the "client" and the professor). Describe what the rest of this SRS contains and how it is organized. Suggest a sequence for reading the document, beginning with the overview sections and proceeding through the sections that are most pertinent to each reader type.>

1.3 Definitions, Acronyms and Abbreviations

PO – Purchase order

1.4 Document Conventions

2 Overall Description

2.1 Product Perspective

2.2 Product Functionality

Manager

- Create, edit, delete, and lookup employees
- Create new products
- Manage existing products including real time product quantities
- Create new purchase orders
- Lookup open purchase orders with the option to receive open purchase orders
- View previously received purchase orders
- Create new customer transactions
- View previous customer transactions
- Create, edit, and manage customers

Employee

- Lookup and view products
- Lookup and view purchase orders
- Lookup and view existing customers
- Create new customer transactions
- View previous customer transactions
- Lookup existing purchase orders

2.3 Users and Characteristics

Small Business Toolkit provides three permission levels: entry level user, manager, and admin. The idea behind having varying permission levels is mainly to differentiate between regular employees and managers. Lower level employees can use an entry level permission account to perform basic functionality that they will need in their day to day operations. Meanwhile, employees trusted with more responsibility such as managers can have access to an administrative account that allows for complete functionality. The idea behind the Admin permission level is that if we needed to perform any code maintenance we would be able to lock certain pages behind Admin permission level.

2.4 Operating Environment

2.5 Design and Implementation Constraints

2.6 User Documentation

<*List the user documentation components (such as user manuals, on-line help, and tutorials) that will be delivered along with the software. Identify any known user documentation delivery formats or standards.*
TO DO: You will not actually develop any user-manuals, but you need to describe what kind of manuals and what kind of help is needed for the software you will be developing (e.g. how would the users learn how to use the system). One paragraph should be sufficient for this section.>

2.7 Assumptions and Dependencies

<*List any assumed factors (as opposed to known facts) that could affect the requirements stated in the SRS. These could include third-party or commercial components that you plan to use, issues around the development or operating environment, or constraints. The project could be affected if these assumptions are incorrect, are not shared, or change. Also identify any dependencies the project has on external factors, such as software components that you intend to reuse from another project.*
TO DO: Provide a short list of some major assumptions that might significantly affect your design. For example, you can assume that your client will have 1, 2 or at most 50 Automated Banking Machines. Every number has a significant effect on the design of your system. >

3 Specific Requirements

3.1 User Interfaces and Functional Requirements

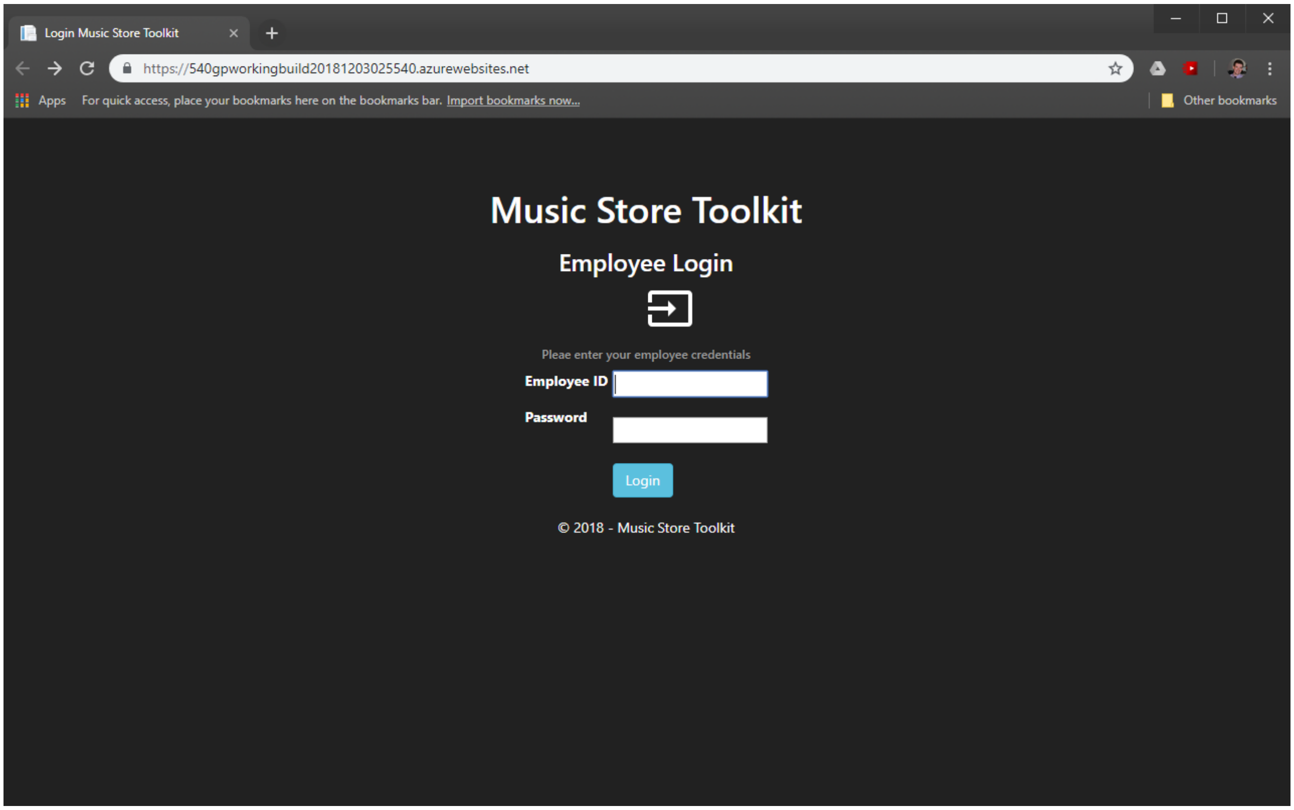
3.1.1 Use Case View

<A use case defines a goal-oriented set of interactions between external actors and the system under consideration. Since sometimes we will not be able to specify completely the behaviour of the system by just State Diagrams, we use use-cases to complete what we have already started in section 3.3.1.

TO DO: Provide a use case diagram which will encapsulate the entire system and all possible actors.>

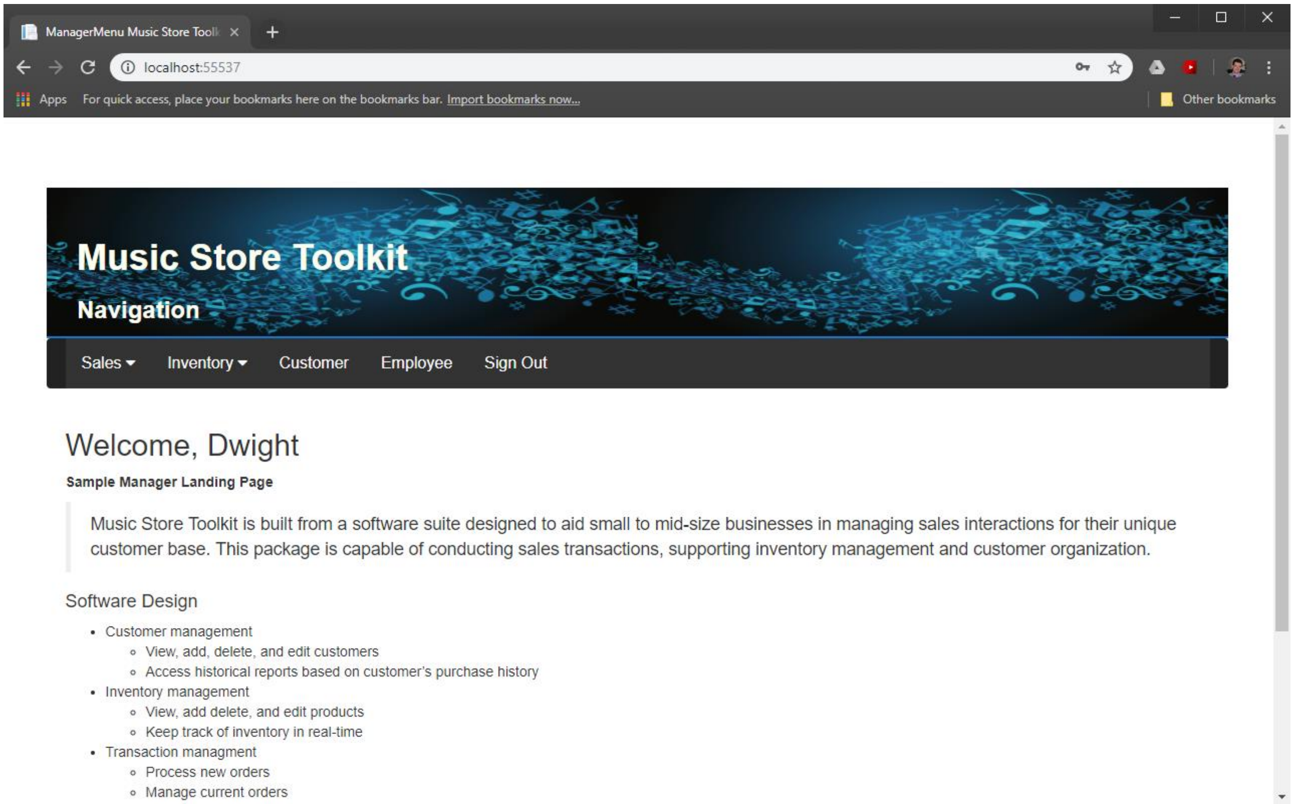
3.1.2 User Interfaces

User Login:



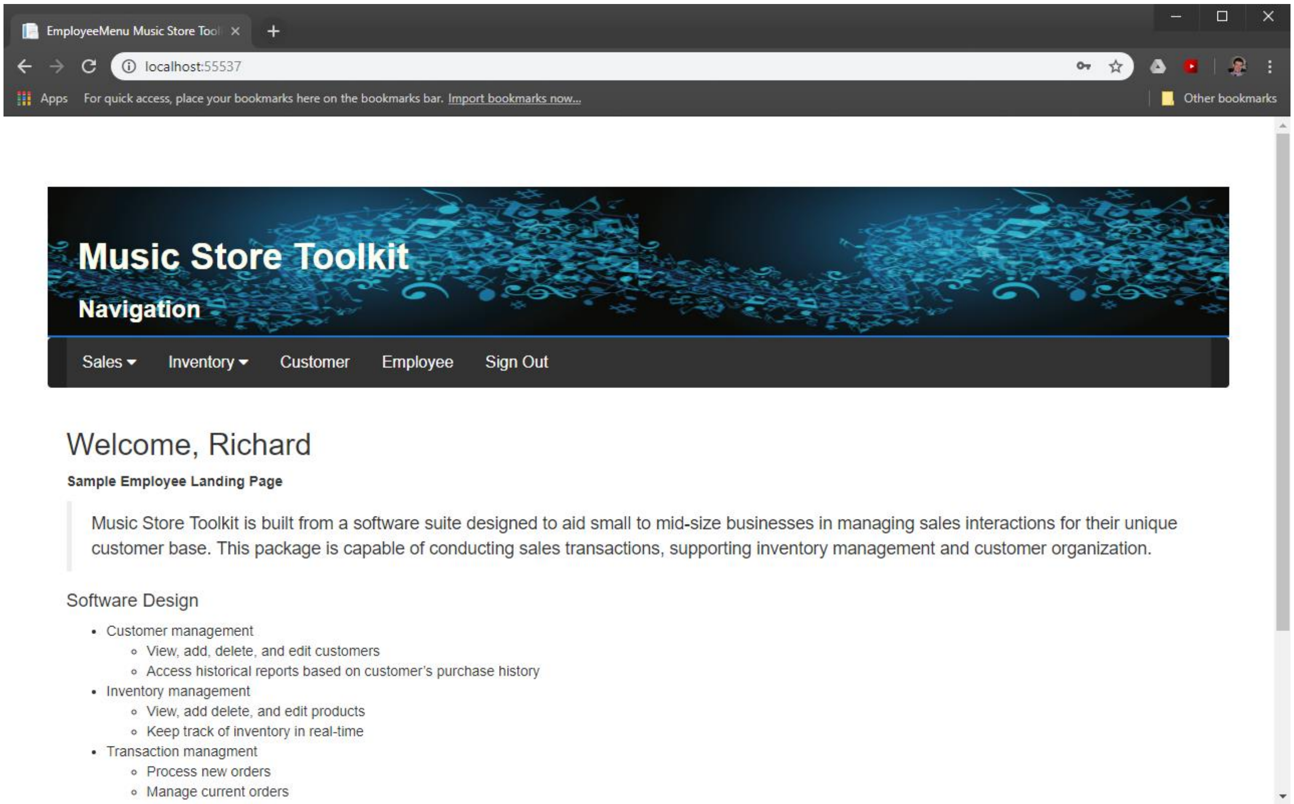
The entry page of the software will be a User Login Screen. The Login screen has input for Employee ID and Employee Password. The input is checked against a customer built authentication method that determines if the user entered credentials is a valid entry Without a current Employee ID and Employee Password that is entered in the database, users will not be permitted access to the remaining software.

Manager Landing Page Screen:



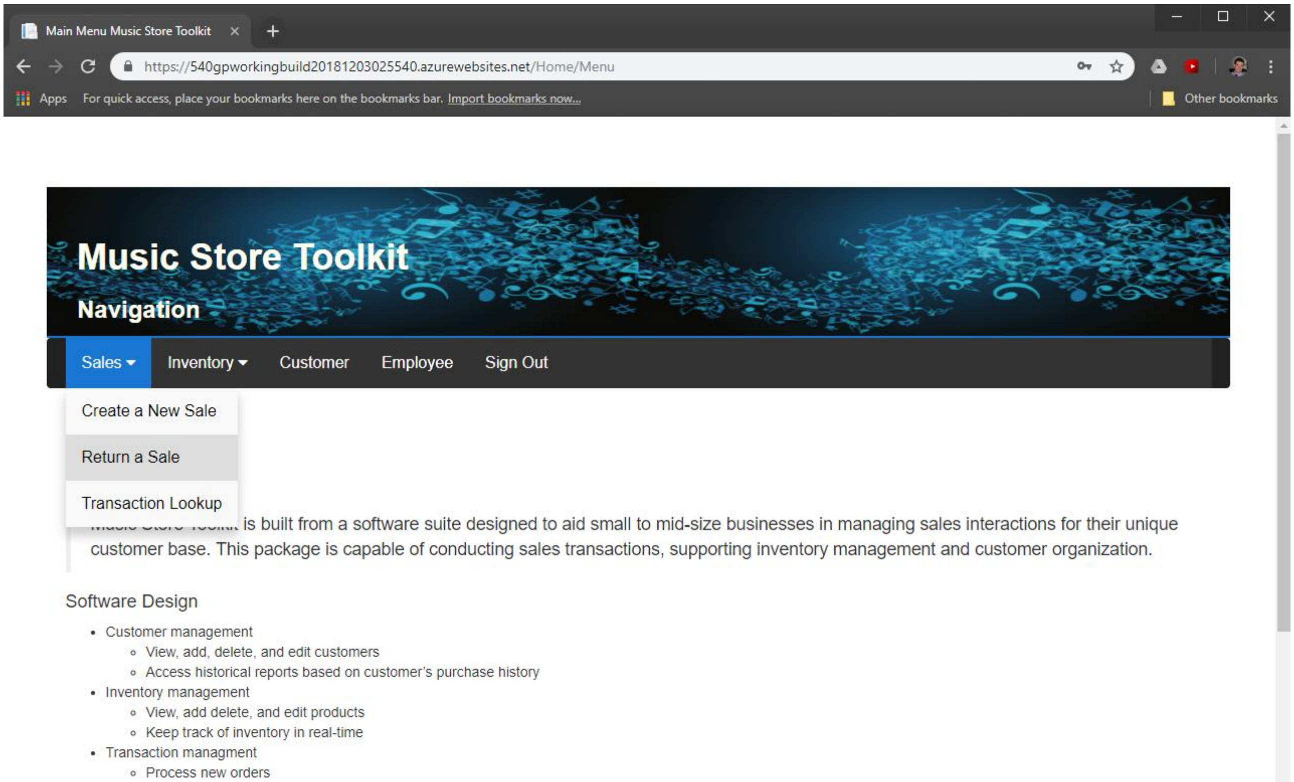
The Landing Page after user login will be a customizable Menu view. This view is designed to be flexible in communicating static information to the user. The view returned from the user login is determined upon the access by Employee Role. Mangers will be directed to a Manager Menu landing page that can reflect information catered to their role.

Employee Landing Page Screen:



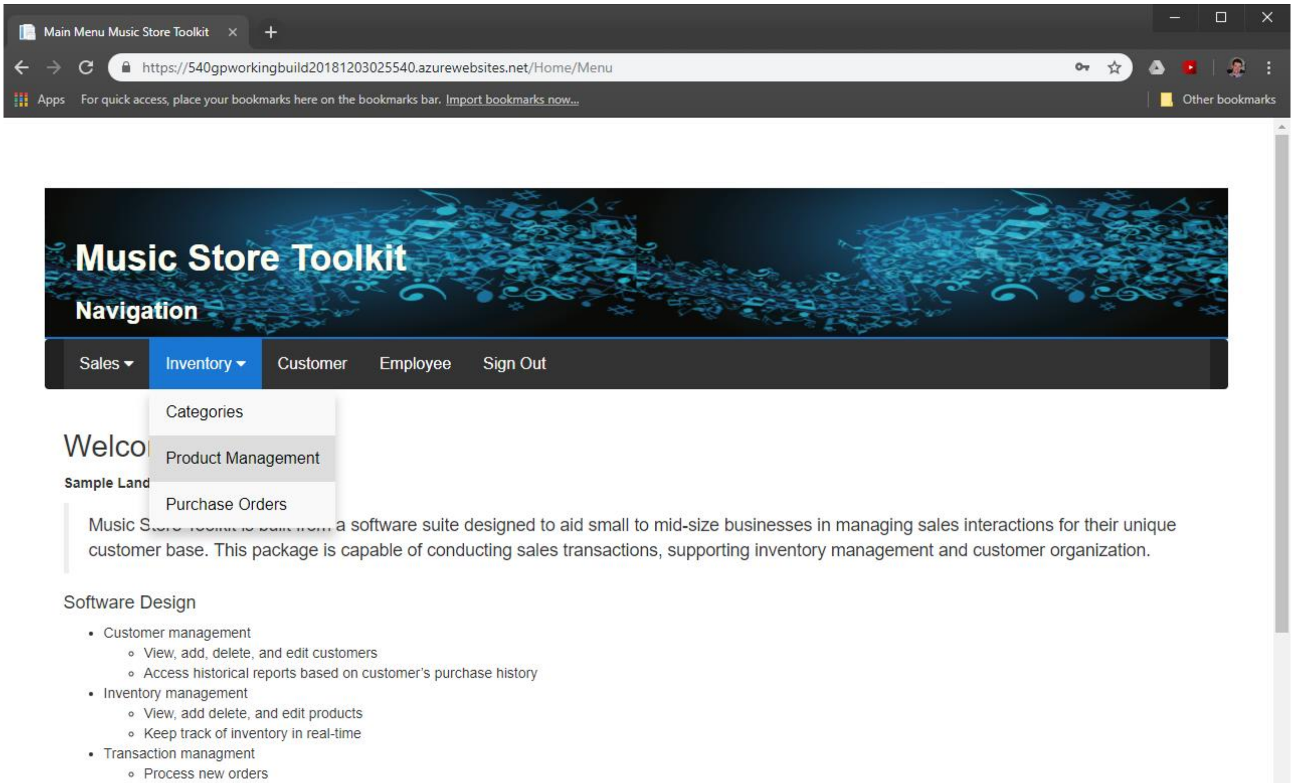
The Landing Page after user login will be a customizable Menu view. This view is designed to be flexible in communicating static information to the user. The view returned from the user login is determined upon the access by Employee Role. Mangers will be directed to a Manager Menu landing page that can reflect information catered to their role.

Sales Navigation:



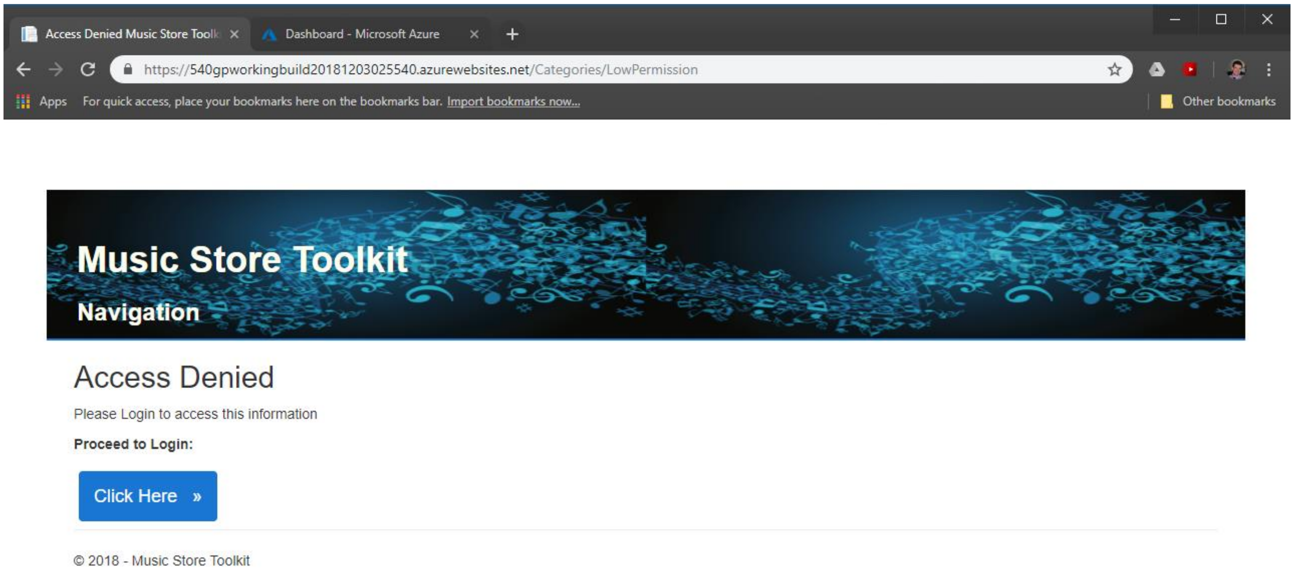
The Sales Drop Down Navigation will have three links to critical software views for Create a New Sale, Return a Sale, and Transaction Lookup. All three links will direct the user to the corresponding view for completing the individual task assigned to them.

Inventory Navigation:



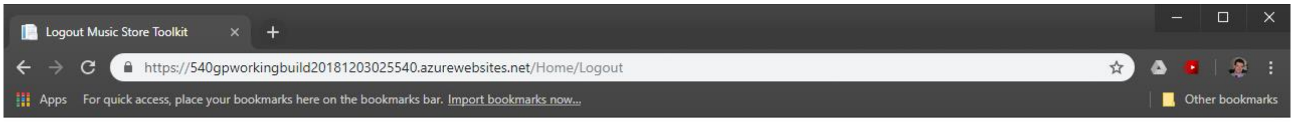
The Inventory Drop Down Navigation will have three links to critical software views for product Categories, Product Management, and Purchase Orders. All three links will direct the user to the corresponding view for completing the individual task assigned to them.

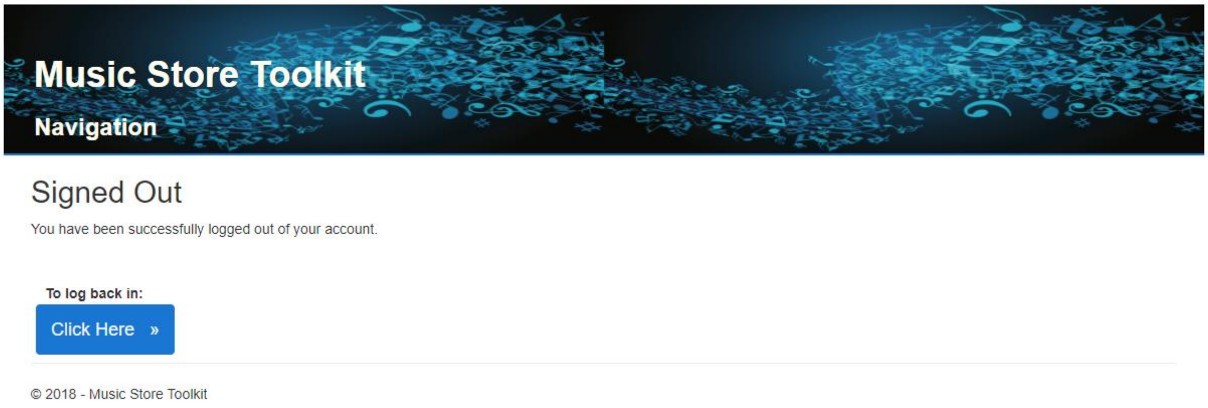
User Restricted View:



Low Permission view is displayed when an Employee user attempts to access actions in the software that they are not authorized to use. The user is directed to the Low Permission view and asked to revisits the main user log in screen. The software navigation is removed from use to avoid any misuse of features during this time.

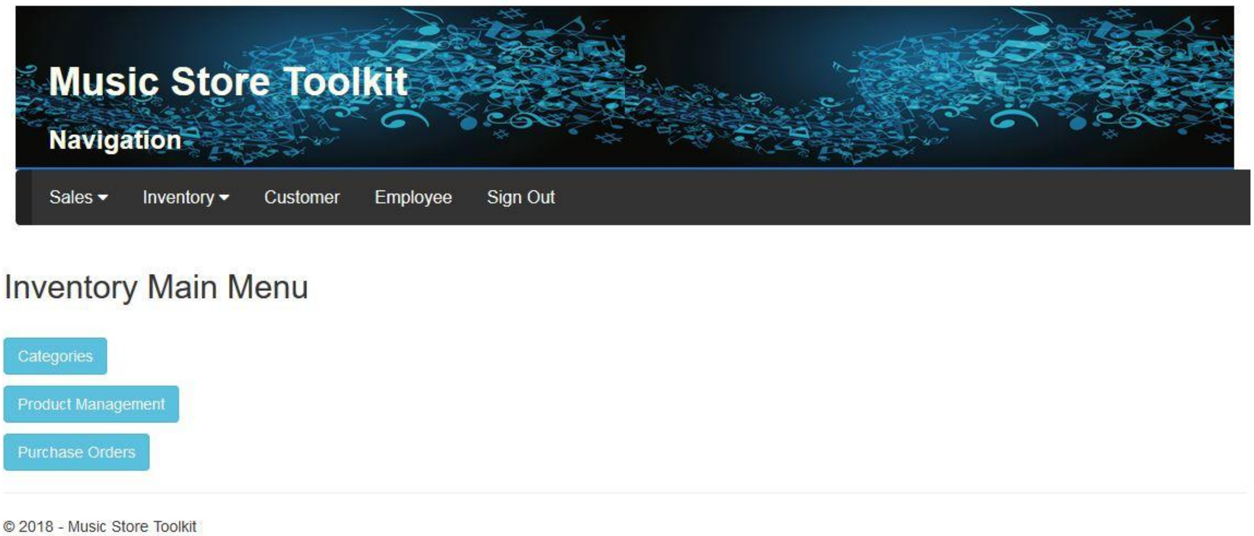
Signed Out:





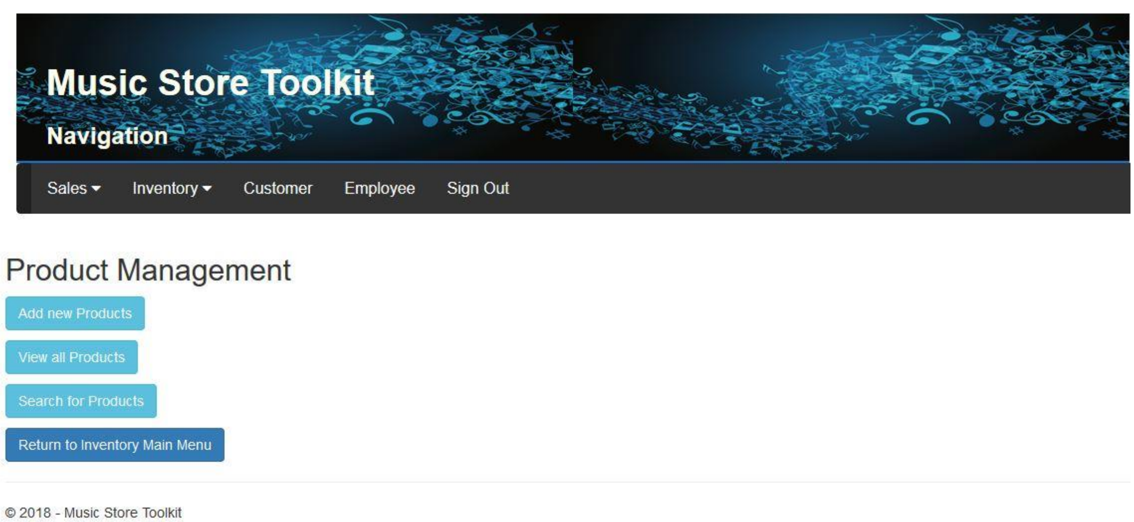
When a user selects the ‘Sign Out’ section of the navigation they will be directed to the according view. This view validates the user has been successfully removed from use of the software system and the software navigation is removed from use to avoid any misuse of features during this time. There is a button option to return the user to log back into the software system if they so choose.

Inventory Home



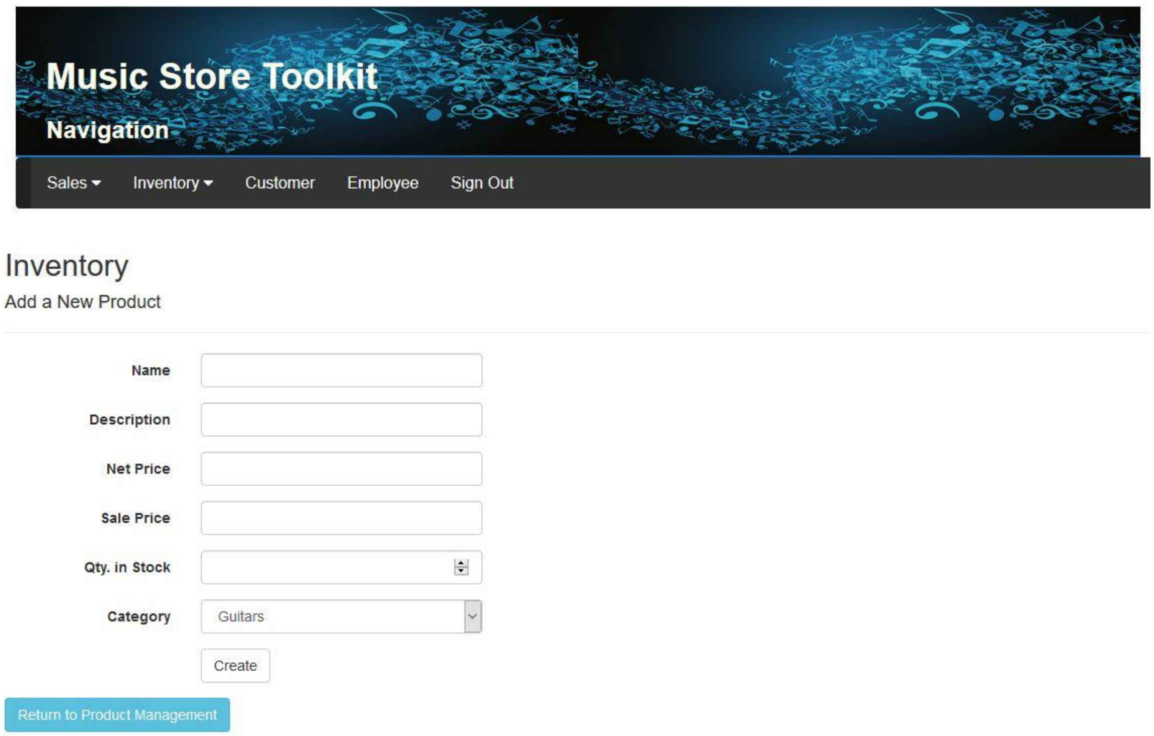
On this screen users have three options to choose from: categories (takes user to category index page), product management (takes user to the product management page), and purchase orders (takes user to the purchase order home page).

Product Home



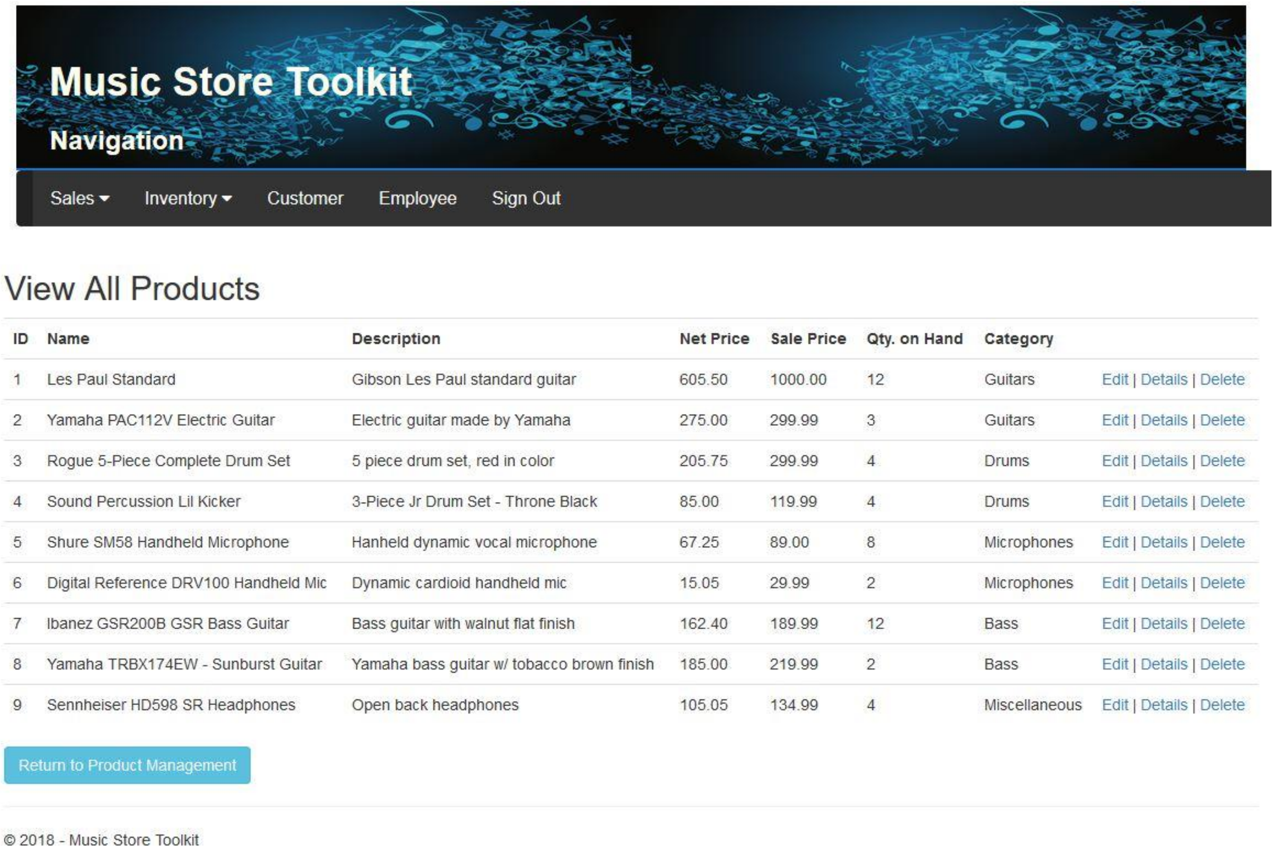
On screen users can choose from four product management options: “Add new Products” (takes user to ‘add new product’ page), “View all Products” (takes user to ‘view all products’ page), “Search for Products” (takes user to product lookup page), and “Return to Inventory Main Menu” (takes user back to inventory home).

Create Product



This page allows Managers and Employees to create new products. Regular employees who try to access this page will be redirect to the user restricted view. The inventory attributes and their respective requirements are as follows: Name, Description, Net Price (must be positive number), Sale Price (must be positive number), Quantity in stock (must be positive whole number), and category (must be selected from previously created categories). All of these attributes must be filled in for a proper product creation to occur. At the bottom of this page lies two buttons: “Create” (which creates a product and redirects to the Product Management page given that the provided attributes were valid) and “Return to Product Management” (which returns the user to the Product Management page without creating a new product).

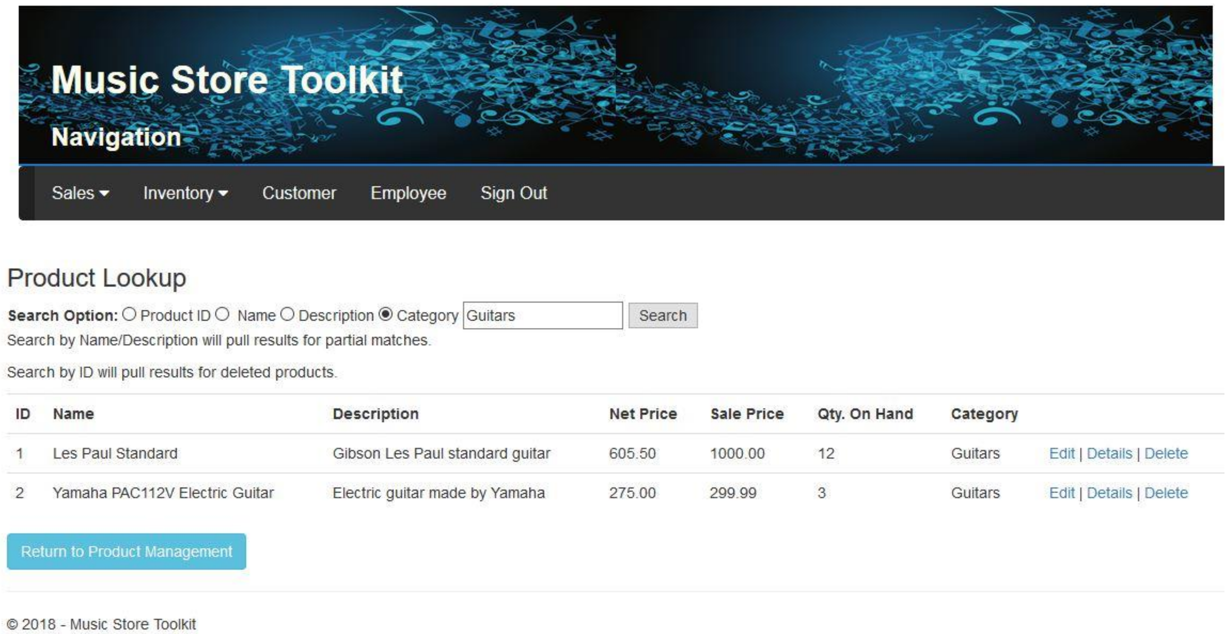
View all Products



ID	Name	Description	Net Price	Sale Price	Qty. on Hand	Category	
1	Les Paul Standard	Gibson Les Paul standard guitar	605.50	1000.00	12	Guitars	Edit | Details | Delete
2	Yamaha PAC112V Electric Guitar	Electric guitar made by Yamaha	275.00	299.99	3	Guitars	Edit | Details | Delete
3	Rogue 5-Piece Complete Drum Set	5 piece drum set, red in color	205.75	299.99	4	Drums	Edit | Details | Delete
4	Sound Percussion Lil Kicker	3-Piece Jr Drum Set - Throne Black	85.00	119.99	4	Drums	Edit | Details | Delete
5	Shure SM58 Handheld Microphone	Hanheld dynamic vocal microphone	67.25	89.00	8	Microphones	Edit | Details | Delete
6	Digital Reference DRV100 Handheld Mic	Dynamic cardioid handheld mic	15.05	29.99	2	Microphones	Edit | Details | Delete
7	Ibanez GSR200B GSR Bass Guitar	Bass guitar with walnut flat finish	162.40	189.99	12	Bass	Edit | Details | Delete
8	Yamaha TRBX174EW - Sunburst Guitar	Yamaha bass guitar w/ tobacco brown finish	185.00	219.99	2	Bass	Edit | Details | Delete
9	Sennheiser HD598 SR Headphones	Open back headphones	105.05	134.99	4	Miscellaneous	Edit | Details | Delete

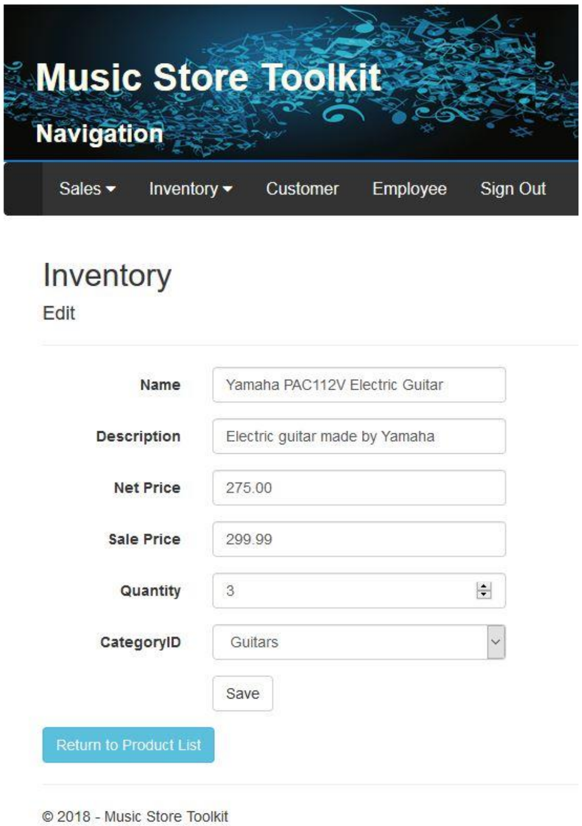
This page allows users to view all active products in the database. It is worth noting that Products in this software use a pseudo-delete such that upon “deletion” a record’s status is set to zero. This page only displays active products. The following attributes are displayed for each record: ID, Name, Description, Net Price, Sale Price, Quantity on Hand, and Category. Each record also has three clickable link objects: Edit (takes user to product edit page given sufficient permissions), Details (takes user to detail page of respective product), and Delete (takes user to delete page for product given sufficient permissions.

Product Lookup



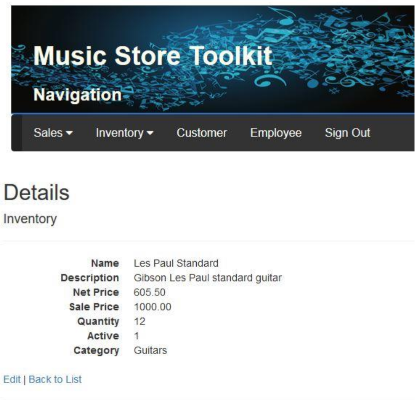
This page allows users to lookup products based on the following attributes: Product ID, Product Name, Product Description, and Product Category. A search results field is displayed at the bottom of the page that displays the following attributes of a record given a successful search: Product ID, Name, Description, Net Price, Sale Price, Quantity on Hand, and Category. Each record displayed in the search results also has three clickable link options that direct to a given page given sufficient permission level: Edit (takes user to Edit page of respective product), Details (takes user to Details page of respective product), and Delete (takes user to Delete page of respective product).

Edit Product



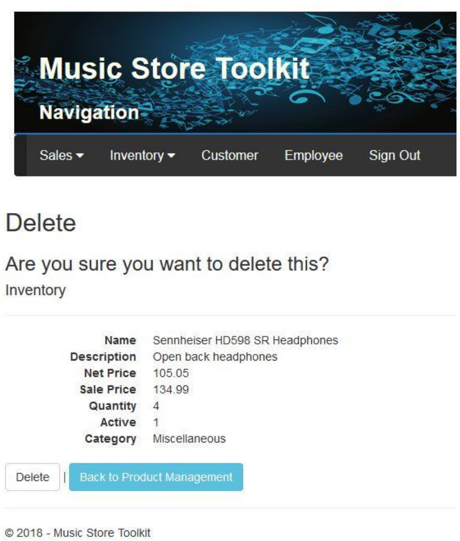
This page allows users to edit the following attributes of a specific product: Name, Description, Net Price (must be positive number), Sale Price (must be positive number), Quantity (must be positive whole number), and Category (choose from selected list of existing categories). There are two clickable buttons at the bottom: “Save” (saves changes if valid and takes user back to Inventory Main Menu) and “Return to Product List” (which takes user to View All Products page). Only users logged in with the role Manager or Admin have access to this page, and others who try will be redirected to the user restricted view.

Product Details



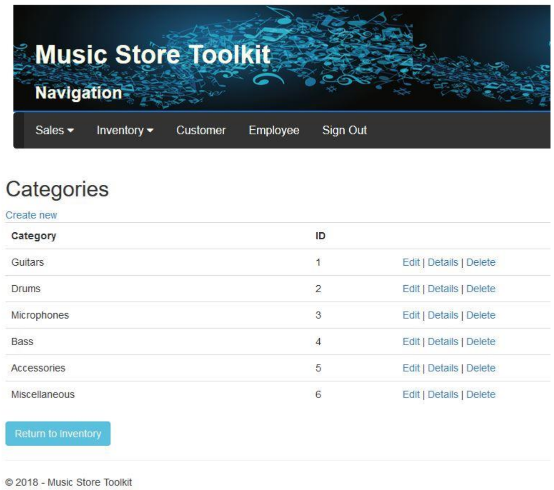
This page displays name, description, net price, sale price, quantity on hand, active status, and category for a given product. There are two clickable links at the bottom that redirect given sufficient permission: Edit (takes user to Edit Product page) and Back to List (takes user to View All Products page).

Product Delete



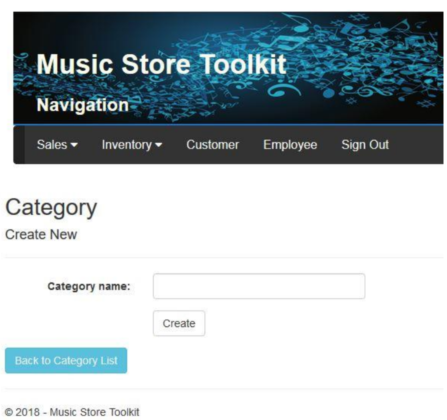
This page allows those with Manager or Admin employee role to delete products. This page provides an overview of the product as well as an option to confirm deletion, which then redirects the user to the product home page.

Product Categories Index



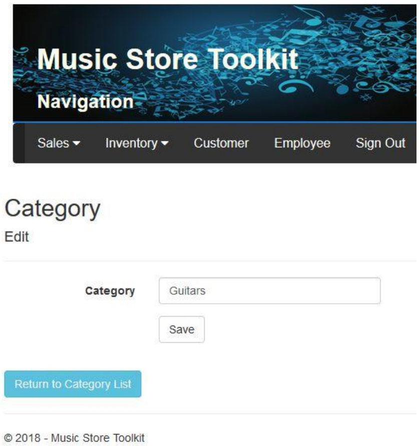
This page displays all active product categories. For each record, the name of the category as well as its ID is displayed. Three clickable options are available for each record: Edit, Delete, and Details that redirect to their respective pages for the given record. At the bottom of this page lies a "Back to Inventory" button that redirects users to the Inventory Home page.

Create Category



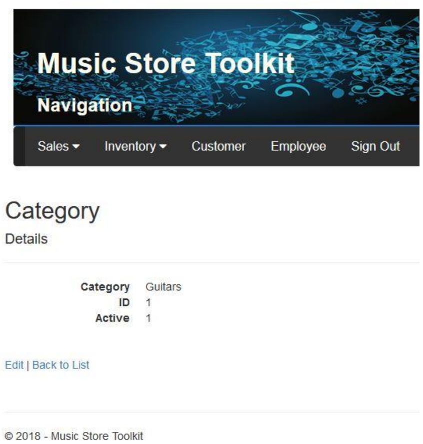
This page allows users to create a new product category. The only attribute to enter is category name. Upon clicking create the user will be redirected to the Product Categories Index page provided the category creation was successful. At the bottom of the page lies a "Back to Categories List" button that redirects users to the Product Categories Index page.

Edit Category



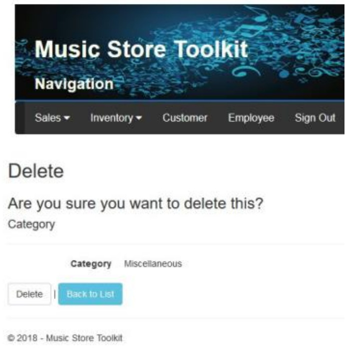
This page allows users to change the name of an existing product category. Upon renaming the category users can click a "Save" button that redirects them the Product Categories Index list upon a successful edit. At the bottom of the page lies a "Back to Categories List" button that redirects users to the Product Categories Index page.

Category Details



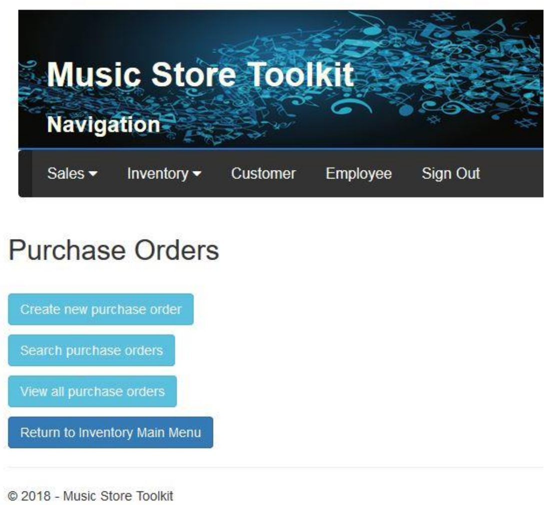
This page allows users to see the following attributes for a given category: Category name, Category ID, and Category active status. At the bottom of the page lies two clickable buttons: Edit (takes user to Edit Category page) and Back to List (which takes user to Product Categories Index page).

Delete Category



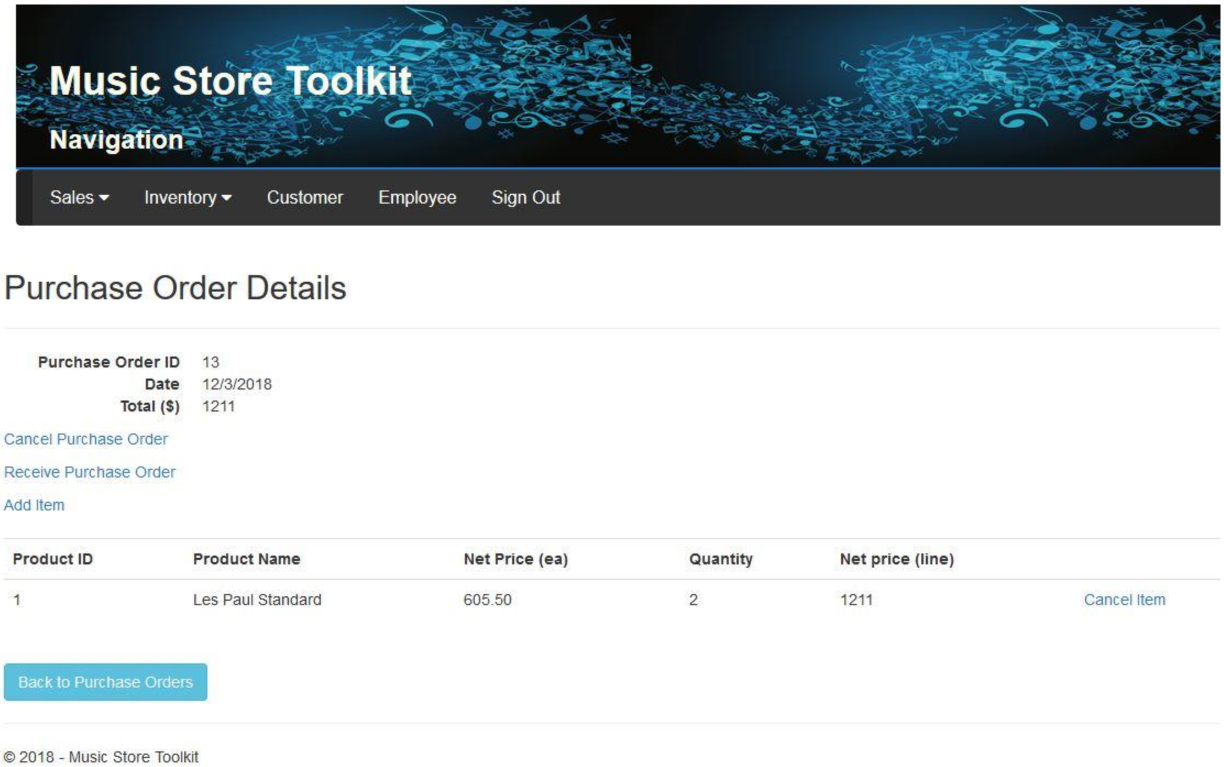
This page allows users to delete a given product category. The deletion is actually a pseudo-delete which sets active to 0 so that other areas of the software know not to show this category anymore. At the bottom of this page lies two clickable buttons: Delete (performs "deletion" and redirects user to Category Index page) and Back to List (redirects user to Category Index page).

Purchase Order Home



This screen gives users 4 clickable button options: "Create new purchase order" (creates a new purchase order record and redirects to the details page of that order), "Search purchase orders" (redirects to purchase order lookup page), "View all purchase orders" (redirects to View All Purchase Orders page), and "Return to Inventory Main Menu" (redirects to inventory home page).

Purchase Order Details



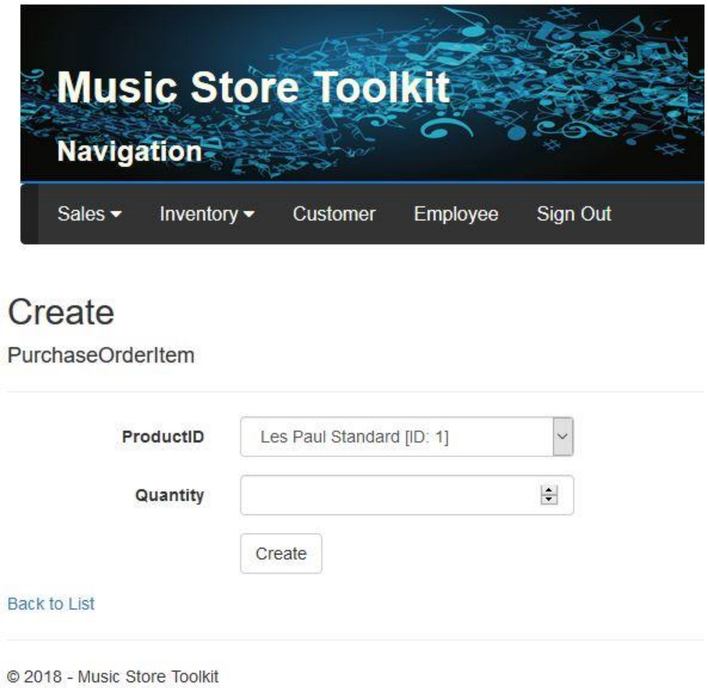
Purchase Order Details is a complex page that allows for dynamic editing and viewing of a purchase order. Manager and Admin are the only roles allowed to perform most edits/manipulations on purchase orders, however, employees can still view the purchase order and receive the purchase order if the order status is open.

The top of this pages displays three attributes for the order: ID, Date, and Total Cost. Below said attributes lies three clickable options if the purchase order is open: “Cancel Purchase Order” (deletes the record from the database and redirects to View All Purchase Orders page), “Receive Purchase Order” (upon receiving the physical product specified on the order, users can ‘receive’ the purchase order in order to close the purchase order out [no more additions/manipulations] and have the product inventory levels automatically adjusted to account for the newly received product), and “Add Item” (redirects to a page that allows you to specify an item and quantity to add to the order). These clickable options are no longer available once the order has been received.

The middle of the page displays all records of items associated with this purchase order. The following attributes are shown for each record: Product ID, Product Name, Net Price (each), Quantity, and Net Price (line). Each record displayed on this page also has a “cancel item” clickable link which allows those with Manager or Admin role to delete that specific line off of the order.

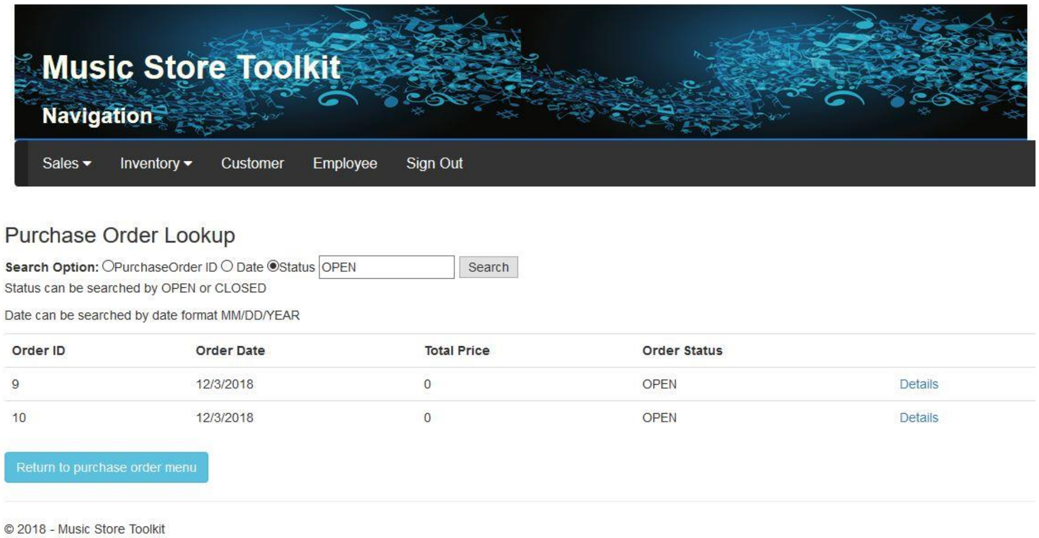
At the bottom of this pages lies a “Back to Purchase Orders” clickable button that redirects users to the Purchase Order Home page.

Add Item to Purchase Order



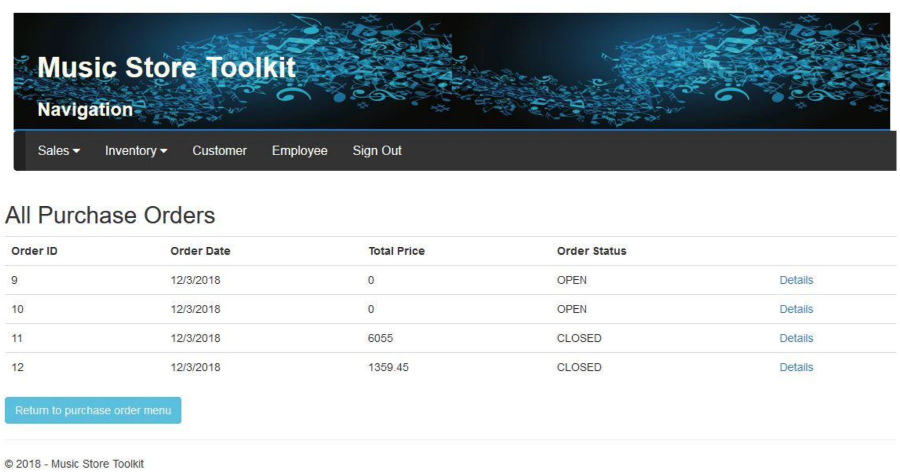
This page allows users to A) select and product from a dropdown menu and B) specify an associated quantity to put on the existing purchase order. Below these two attributes is a button labelled “Create” that, given a successful record creation, redirects users to the Purchase Order Detail page of the current purchase order they are working on.

Purchase Order Lookup

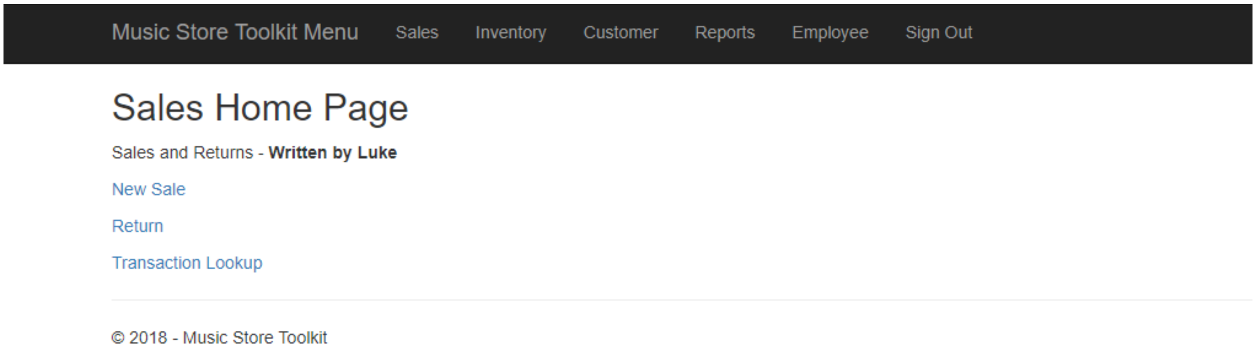


This page allows users to lookup purchase order records based on the following search options: Purchase Order ID, Date, and Status. The midsection of this page features a search results area that displays the following attributes for any records that matched on search: Purchase Order ID, Purchase Order Date, Total Price, and Order Status. Each record has an accompanying clickable link “Details” that redirects to the details page of the corresponding record. At the bottom of the pages lies a button called “Return to purchase order menu” that redirects users to the Purchase Order Home page.

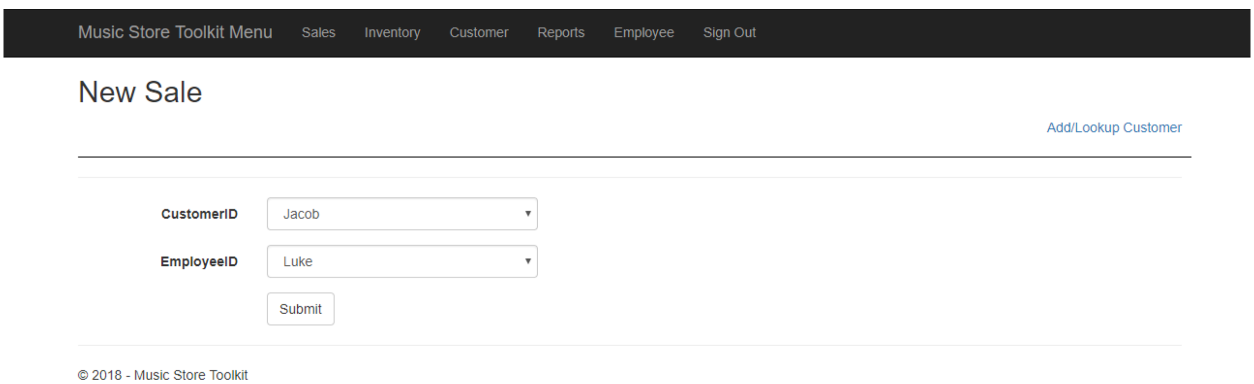
View All Purchase Orders



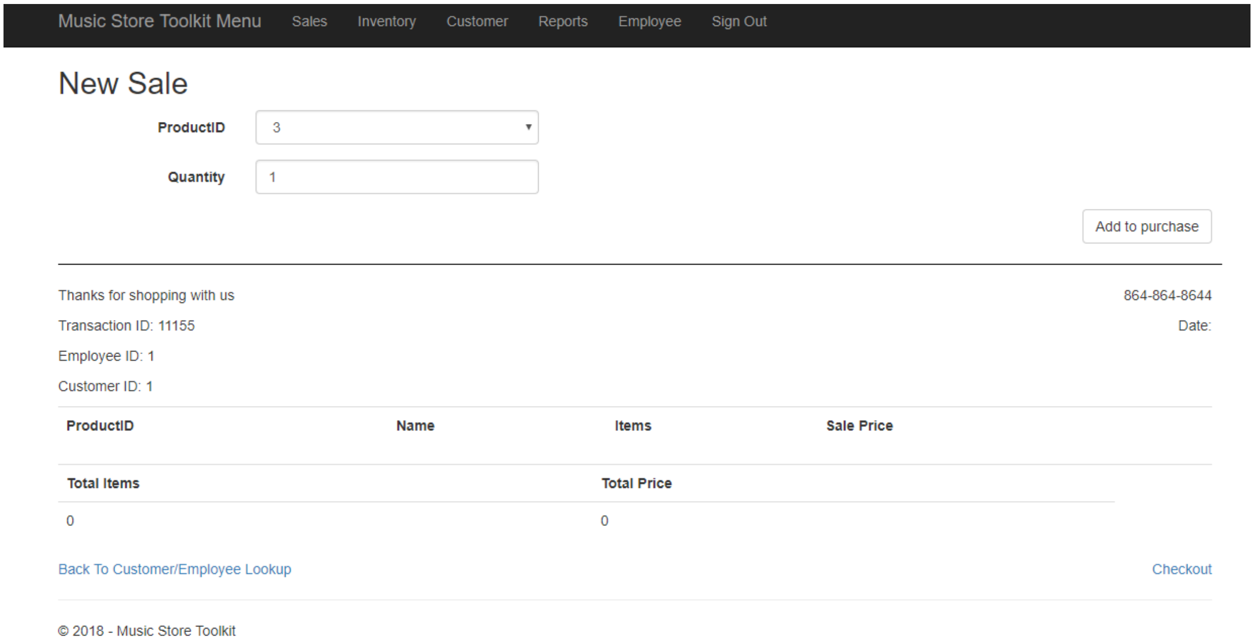
This page shows all purchase order records in the database. Each record has the following attributes displayed: Purchase Order ID, Purchase Order Date, Total Price, and Order status. Each record has an accompanying clickable link “Details” that redirects to the details page of the corresponding record. At the bottom of the pages lies a button called “Return to purchase order menu” that redirects users to the Purchase Order Home page.



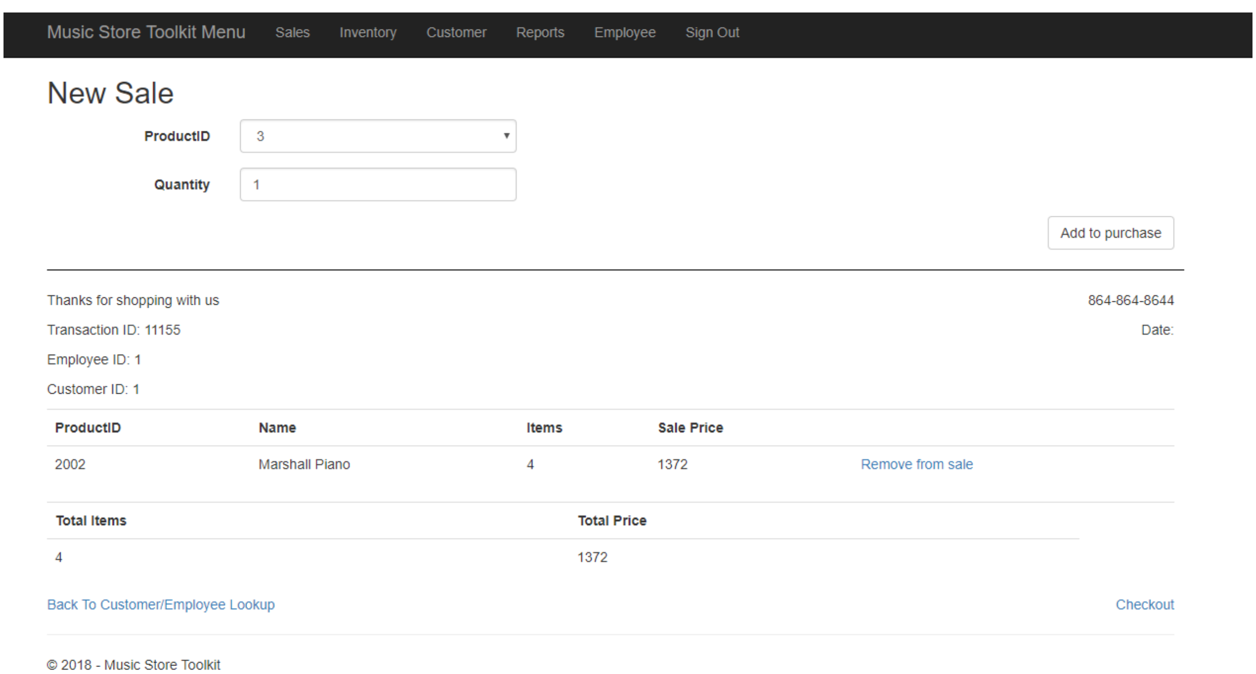
The initial page you see when you click on the Sales tab. From this page, the user has the option of clicking "New Sale", "Return", and "Transaction Lookup". Clicking "New Sale" will take the user to the New Sale page where the user can start a new transaction. Clicking "Return" will take the user to the Return Lookup page which will display all transactions and their status (RETURNED or SOLD). Clicking "Transaction Lookup" will take the user to the Transaction Lookup page where the user can search for a specific transaction.



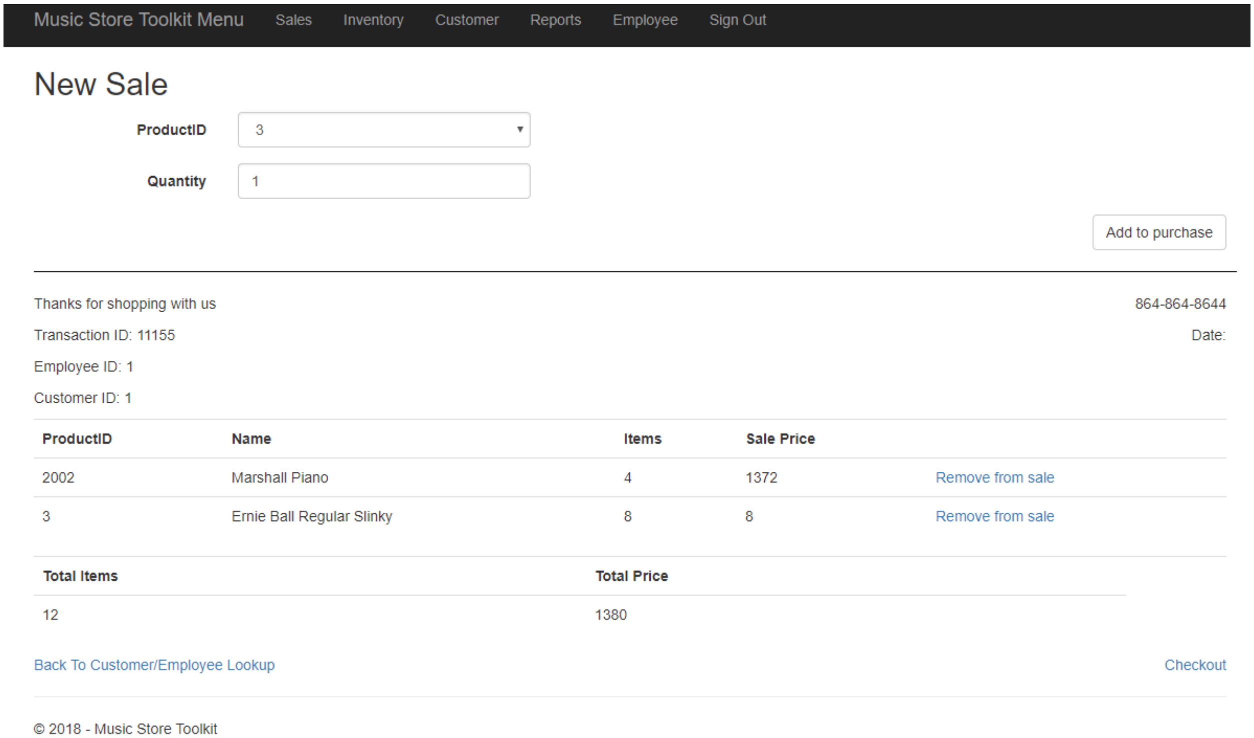
The New Sale page allows the user to select a CustomerID and EmployeeID from a dropdown box. Clicking the "Add/Lookup Customer" link will take the user to the Customer Index page where the user can view a list of all CustomerIDs. Clicking "Submit" will take the user to the SaleItems/Create page (aka the "Add Item to Cart" page) where the user can then add items to purchase.



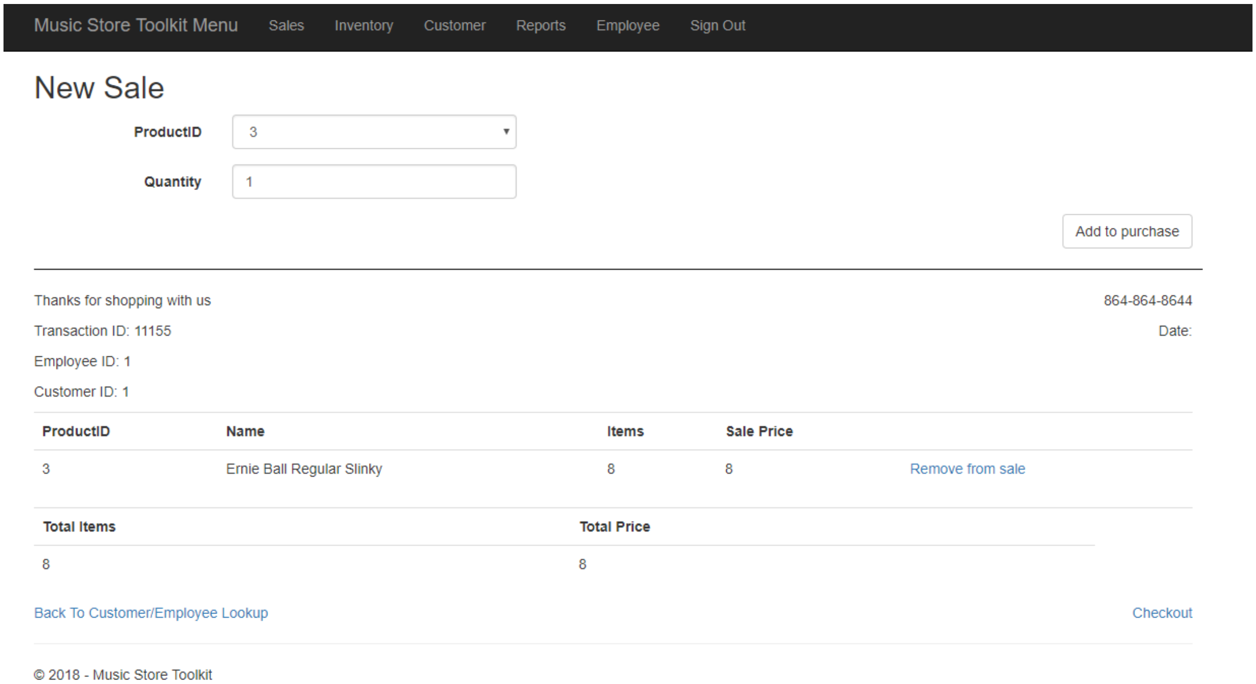
The SaleItems/Create page allows the user to select a ProductID from a dropdown box as well as enter the desired Quantity of the item the user wishes to buy. Clicking the "Back To Customer/Employee Lookup" link will take the user back to the previous screen where the user can select a different CustomerID or EmployeeID. Clicking the "Checkout" link will take the user to the Checkout screen. In the screenshot below, I will add ProductID 2002 and set the desired Quantity to 4.



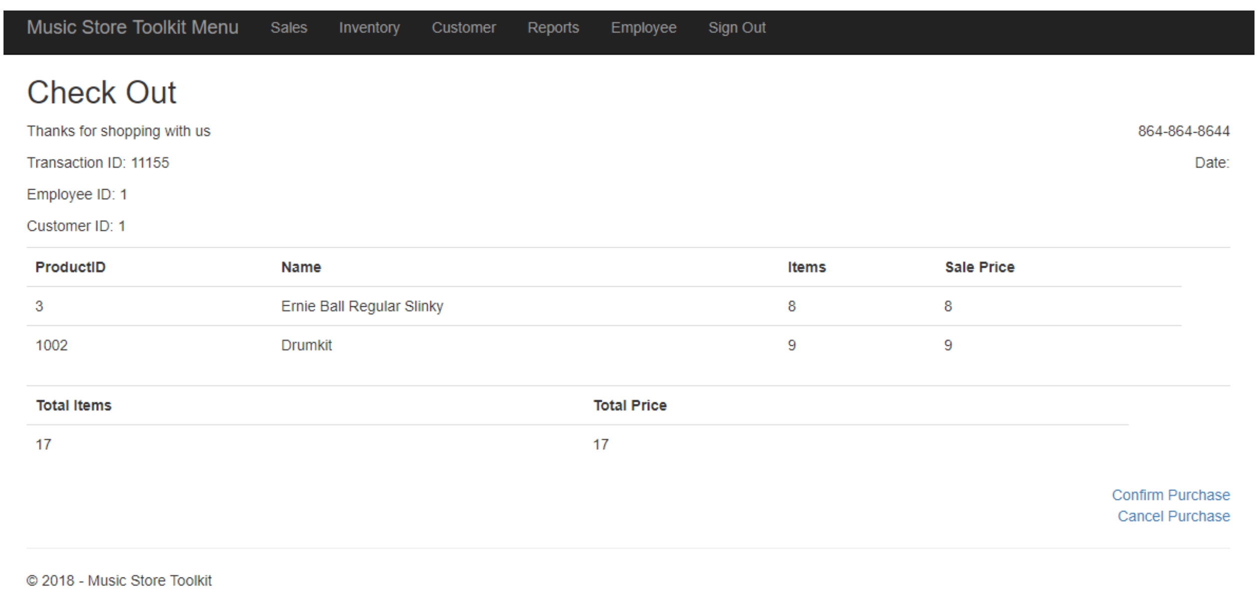
Upon clicking the “Add to purchase” button, the page refreshes showing the item that I just added to my cart. It displays the item’s ProductID and name and displays how many items I have added as well as the total sale price when multiplied to the quantity (original price of the piano set to $343.00). It also updates the total items that are currently in the cart as well as the total price of all items in the cart. In the next screenshot, I will add another item to the cart using ProductID 3 with a desired Quantity of 8.



Upon clicking “Add to purchase” the page refreshes again displaying the newest addition to the cart (Ernie Ball original price was set to $1.00). The total items of the cart is also updated with the current total number of items and the total price is also updated with the correct calculation of the current total price of all items. Clicking on “Remove from sale” next to an item will remove it from the cart and will update the total items and total price accordingly. In the next screenshot, I will remove the Marshall Piano from the cart.

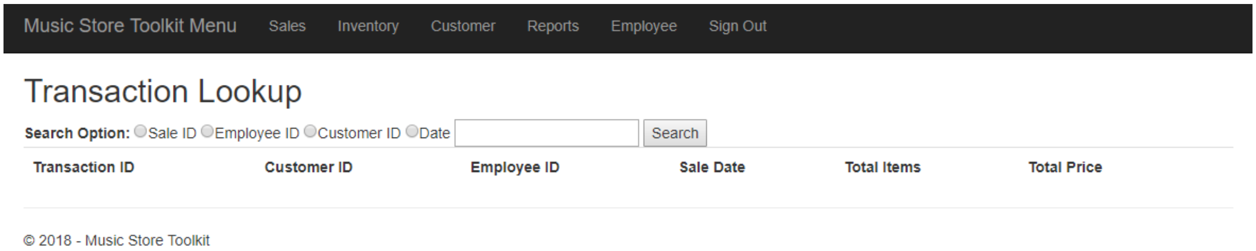


Upon clicking “Remove from sale” next to the Marshall Piano item, the Marshall Piano is no longer in the cart. The total number of items and total price have been updated accordingly as if the Marshall Piano was never in the cart to begin with. It will also add the quantity back to the inventory as if no items were subtracted from the inventory. For demonstration purposes regarding Returns later, I will add 9 Drumkits to this transaction (Drumkit original price = $1.00).

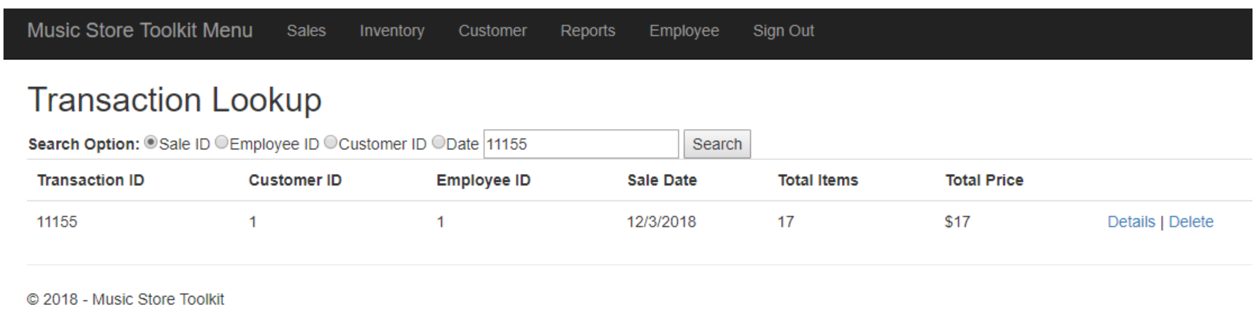


The Checkout page simply gives the user the opportunity to Cancel the purchase if they decide not to follow through with the transaction. Clicking “Cancel Purchase” will take the user back to the Sales Home page that was shown in the first screenshot as well as make that specific transaction inactive as if it had

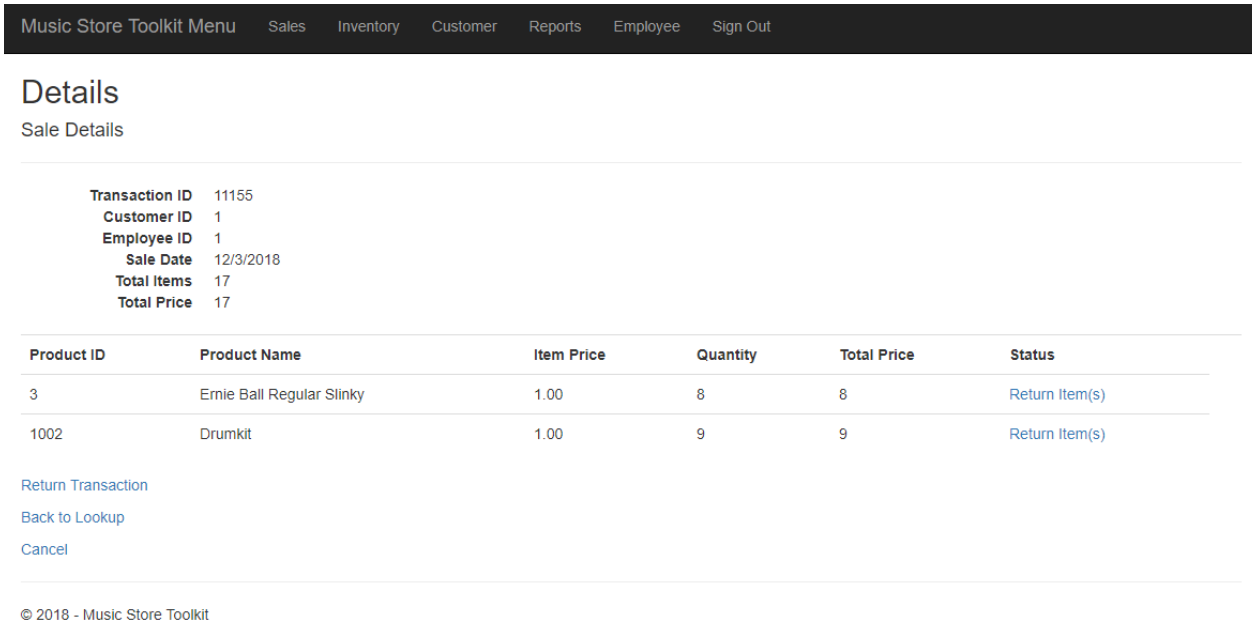
no items in it. It will also set the add the items back to the inventory. Clicking "Confirm Purchase" will take the user to the Transaction Lookup page where they can find and view their transaction or search for any other transactions that were made.



On the Transaction Lookup page, the user can search for any transaction in the database. The search options are as follows: Sale ID, Employee ID, Customer ID, or Date. If given the correct input for the specified method of search, the correct transaction will be returned, and the user will be able to view all details of the specified transaction. In the next screenshot, I will search for a transaction based on Sale ID (search for Sale ID 11155 which is the latest transaction that was made).

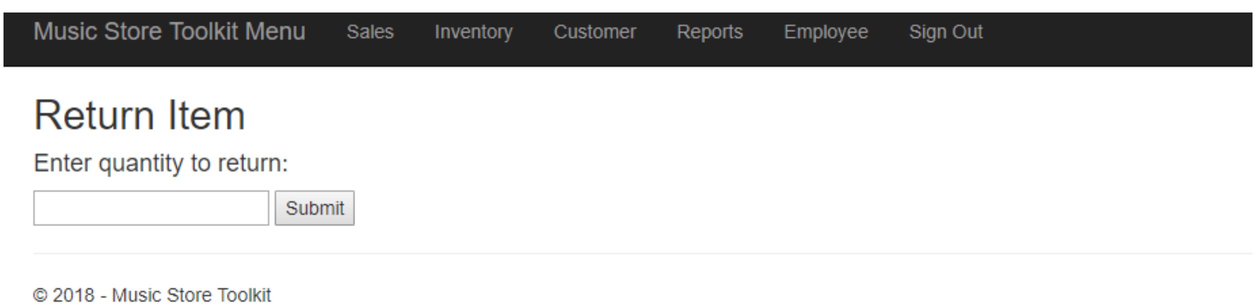


After typing in 11155 in the input field with Sale ID selected and clicking Search, the correct transaction is returned where I can now view details regarding the transaction. Clicking "Details" will take the user to the Details page of the transaction where the user can see how many items were purchased, the total price of all the items, and each individual item that was added to the cart.

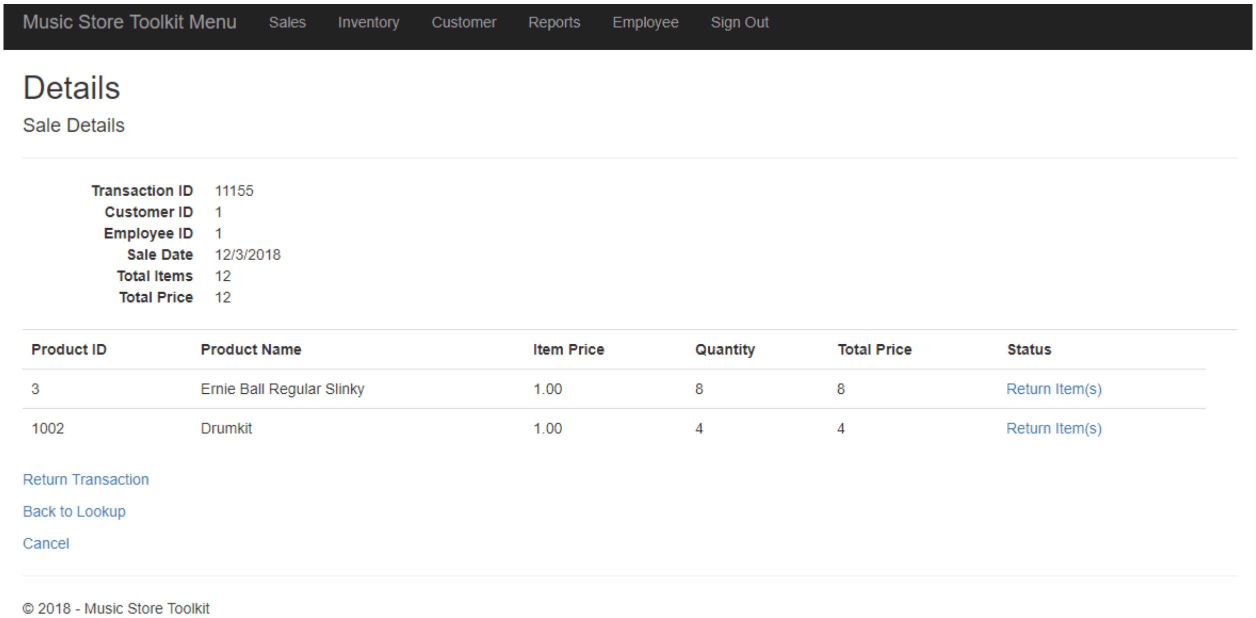


Product ID	Product Name	Item Price	Quantity	Total Price	Status
3	Ernie Ball Regular Slinky	1.00	8	8	Return Item(s)
1002	Drumkit	1.00	9	9	Return Item(s)

Upon clicking "Details", I am able to view everything regarding the transaction. Clicking "Return Item(s)" next to an item will take the user to a new page where the user can enter the return quantity of the item they would like to return. Clicking "Return Transaction" will return all items in the transaction (which will set the quantities and price to 0 and change the status of this transaction to RETURNED) and take the user back to the Transaction Lookup page. If the user were to visit this transaction's details page again, the status would display RETURNED in plain text and the "Return Transaction" link would be removed since all items have already been returned. Clicking "Back to Lookup" takes the user back to the Transaction Lookup page. Clicking "Cancel" takes the user back to the Sales Index page. In the next screenshot, I will click "Return Item(s)" next to Drumkit.



On the Return Item page, the user is asked to enter the return quantity of the item they wish to return. The return quantity must be greater than 1, but less than the quantity of the item that was purchased to begin with. Clicking "Submit" will take the user back to the Details page of the transaction they were viewing with the updated status and total items/total price calculations. In the next screenshot, I will input 5 and click "Submit".



Music Store Toolkit Menu Sales Inventory Customer Reports Employee Sign Out

Details

Sale Details

Transaction ID	11155
Customer ID	1
Employee ID	1
Sale Date	12/3/2018
Total Items	12
Total Price	12

Product ID	Product Name	Item Price	Quantity	Total Price	Status
3	Ernie Ball Regular Slinky	1.00	8	8	Return Item(s)
1002	Drumkit	1.00	4	4	Return Item(s)

Return Transaction

Back to Lookup

Cancel

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After entering 5 and clicking “Submit”, I am brought back to the Details view. The total items and total price have been updated to show that I returned 5 Drumkits. Behind the scenes, 5 Drumkits were added back to the Inventory. In the next screenshot, I will click “Return Item(s)” next to Ernie Ball Regular Slinky and enter 8 as the desired return quantity.

Music Store Toolkit Menu Sales Inventory Customer Reports Employee Sign Out

Details

Sale Details

Transaction ID	11155
Customer ID	1
Employee ID	1
Sale Date	12/3/2018
Total Items	4
Total Price	4

Product ID	Product Name	Item Price	Quantity	Total Price	Status
3	Ernie Ball Regular Slinky	1.00	0	0	RETURNED
1002	Drumkit	1.00	4	4	Return Item(s)

Return Transaction

Back to Lookup

Cancel

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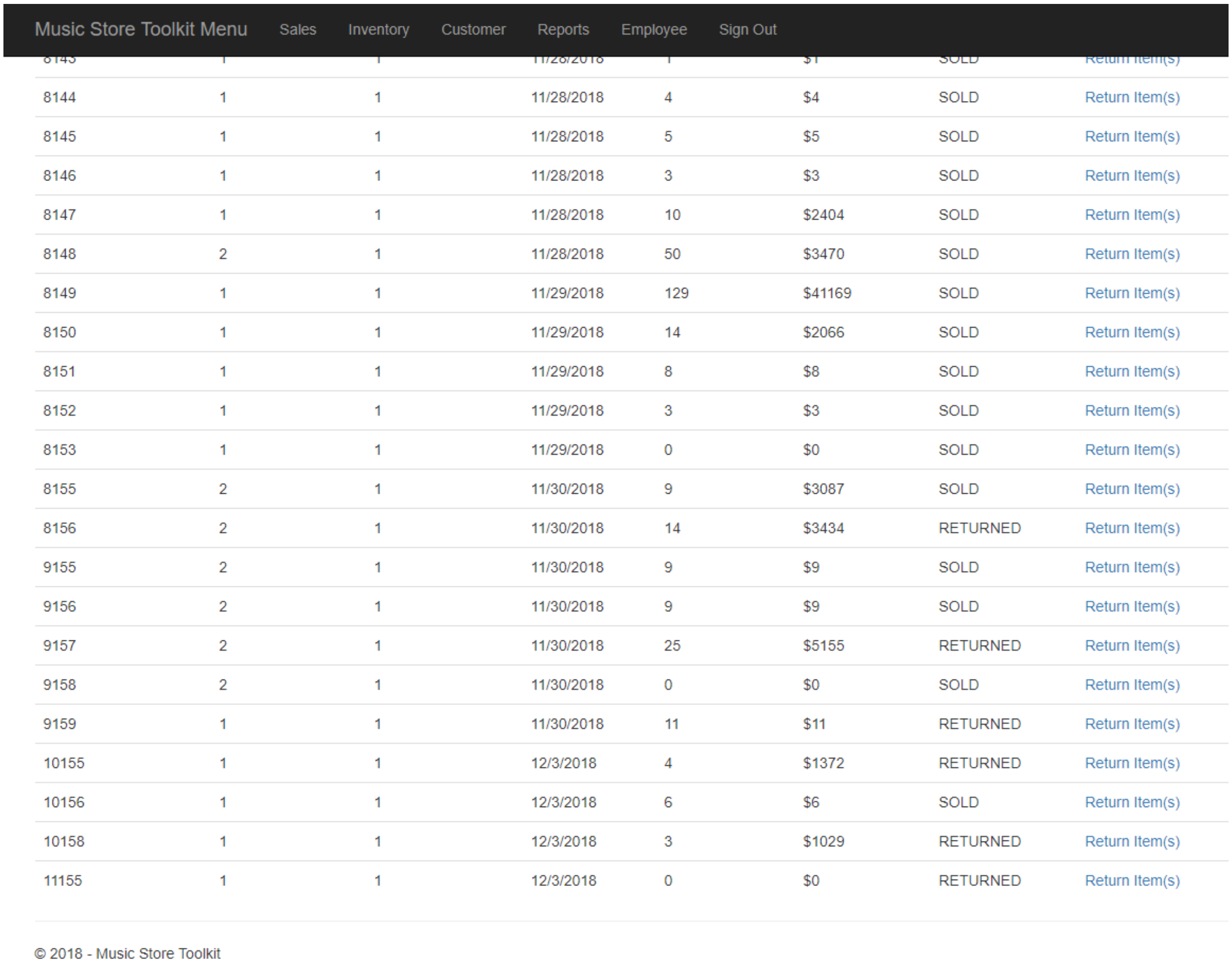
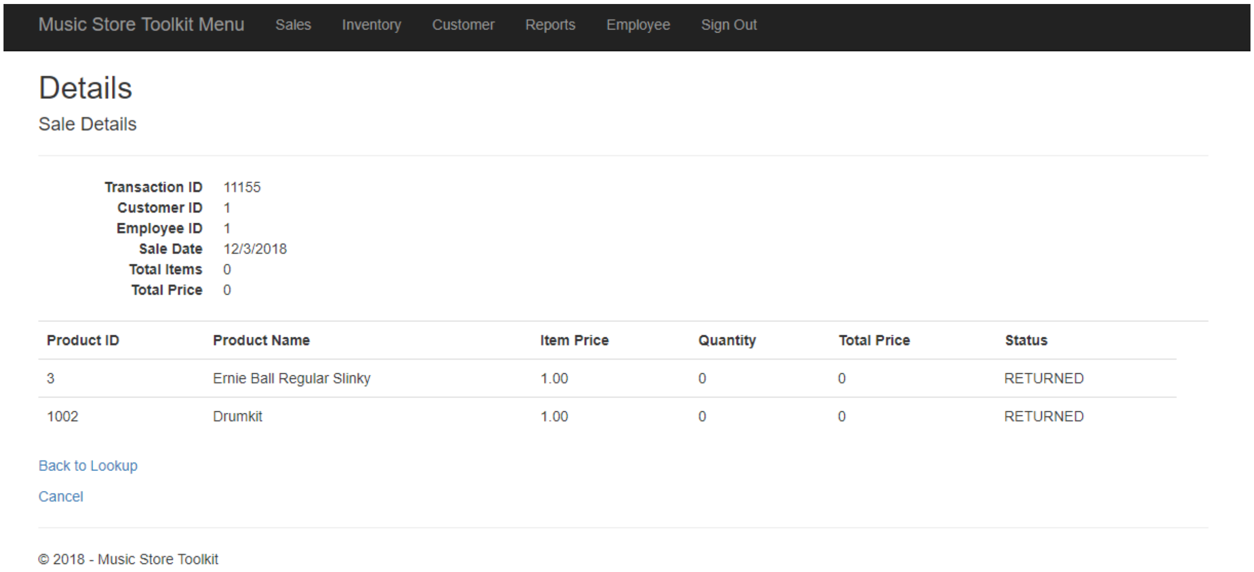
After entering 8 as the desired return quantity on the return page, the Details view is now updated to show that all Ernie Ball Regular Slinkys have been returned. In the next screenshot, I will click "Return Transaction".



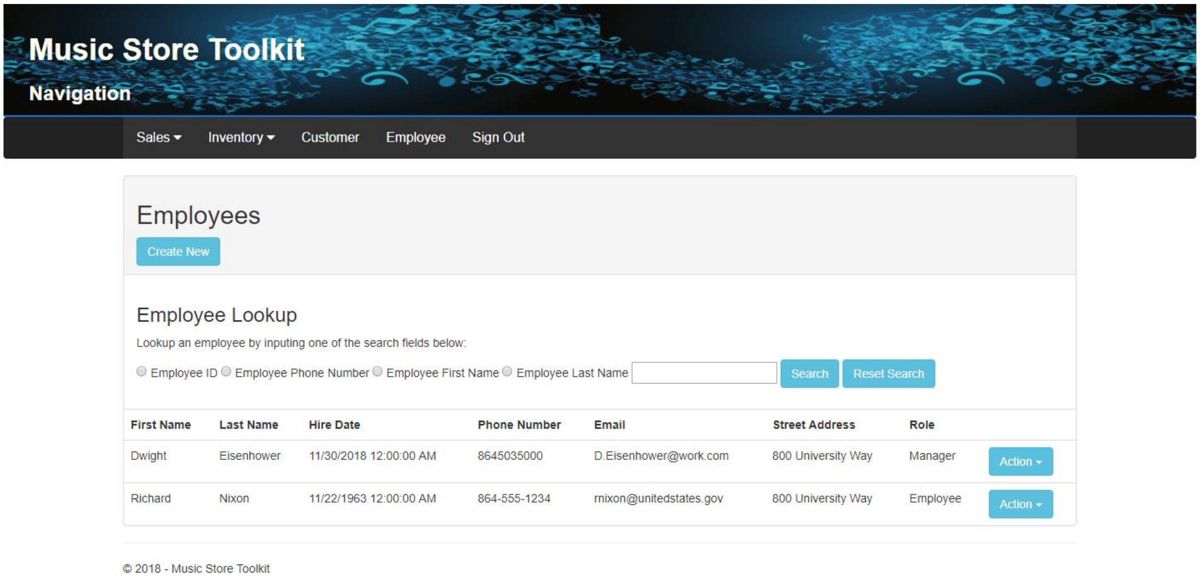
8144	1	1	11/28/2018	4	$4	SOLD	Return Item(s)
8145	1	1	11/28/2018	5	$5	SOLD	Return Item(s)
8146	1	1	11/28/2018	3	$3	SOLD	Return Item(s)
8147	1	1	11/28/2018	10	$2404	SOLD	Return Item(s)
8148	2	1	11/28/2018	50	$3470	SOLD	Return Item(s)
8149	1	1	11/29/2018	129	$41169	SOLD	Return Item(s)
8150	1	1	11/29/2018	14	$2066	SOLD	Return Item(s)
8151	1	1	11/29/2018	8	$8	SOLD	Return Item(s)
8152	1	1	11/29/2018	3	$3	SOLD	Return Item(s)
8153	1	1	11/29/2018	0	$0	SOLD	Return Item(s)
8155	2	1	11/30/2018	9	$3087	SOLD	Return Item(s)
8156	2	1	11/30/2018	14	$3434	RETURNED	Return Item(s)
9155	2	1	11/30/2018	9	$9	SOLD	Return Item(s)
9156	2	1	11/30/2018	9	$9	SOLD	Return Item(s)
9157	2	1	11/30/2018	25	$5155	RETURNED	Return Item(s)
9158	2	1	11/30/2018	0	$0	SOLD	Return Item(s)
9159	1	1	11/30/2018	11	$11	RETURNED	Return Item(s)
10155	1	1	12/3/2018	4	$1372	RETURNED	Return Item(s)
10156	1	1	12/3/2018	6	$6	SOLD	Return Item(s)
10158	1	1	12/3/2018	3	$1029	RETURNED	Return Item(s)
11155	1	1	12/3/2018	0	$0	RETURNED	Return Item(s)

After clicking "Return Transaction", the user is taken to the Return Lookup screen where the total items and total price is now set to 0 for the transaction and the status is changed to RETURNED. Clicking "Return Item(s)" will take the user back to the Details view for the transaction (the same page as shown previously). It was also worth noting that clicking "Return Lookup" from the Sales Index page will take you to this page also.



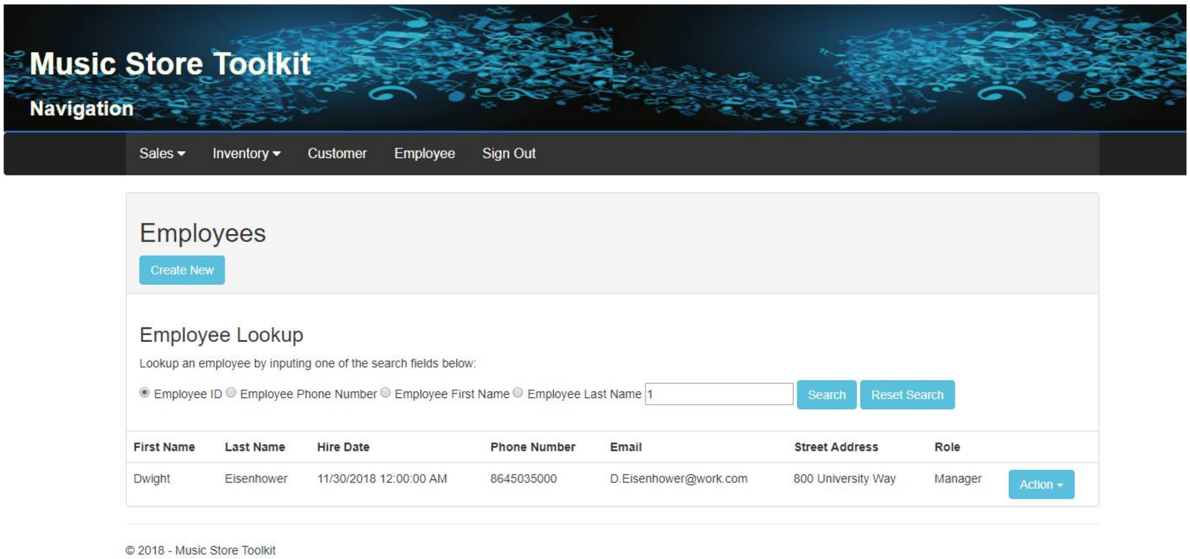
Upon clicking "Return Item(s)" next to the Transaction ID 11155, the user is taken to the Details view where the values for Quantity and Total Price are now 0 and the status for both is set to RETURNED. The option to "Return Transaction" is no longer available and behind the scenes, the quantity of the items was added back to the inventory.

Employee Menu Landing Page



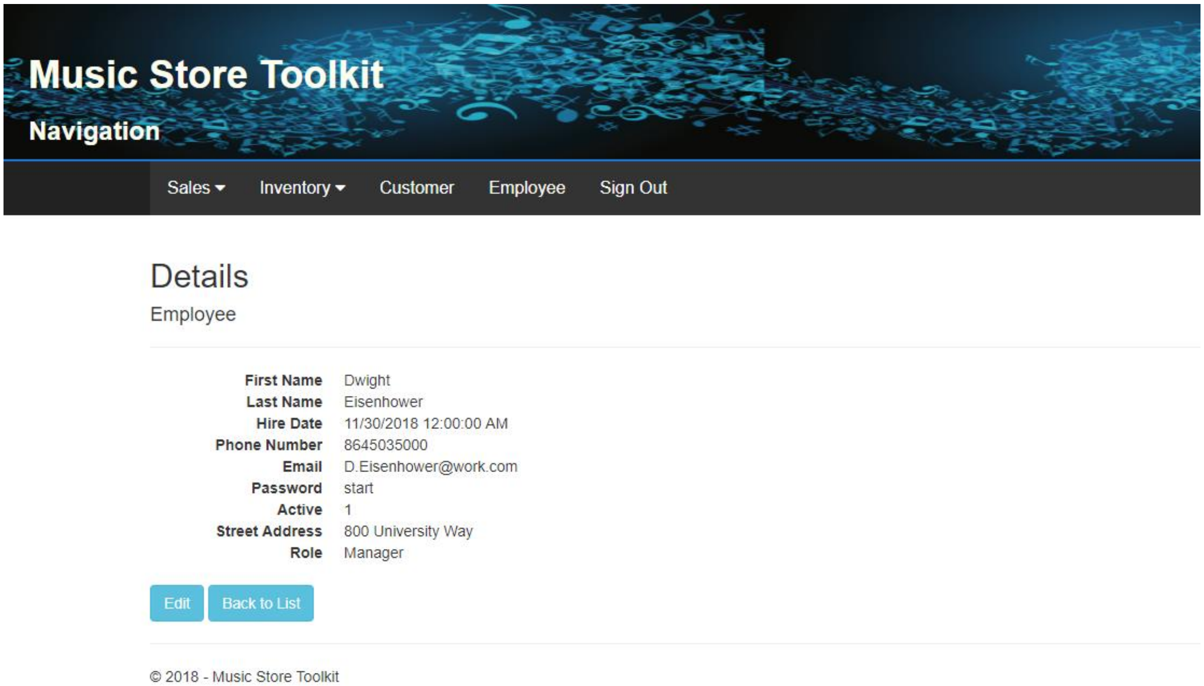
When the user clicks on the ‘Employee’ tab on the navigation bar the application will update. A ‘Create New’ button will navigate the user to a view that allows them to create a new employee user account. 4 radio button icons will allow an employee available search fields you can search for an employee on. Reset search will allow a user to reset the search parameter displaying all active employees. All the way to the right, you will see a button with the name ‘action’, clicking on this will reveal available actions while working with an employee. ‘Edit’ will allow the user to navigate to a view to edit current employee information. ‘Details’ will display the employee’s details. ‘Delete’ will remove the employee from the active list of employees. (Please note: ‘delete’ will not actually delete an employee, but it will place them in un-active state.

Employee Lookup View



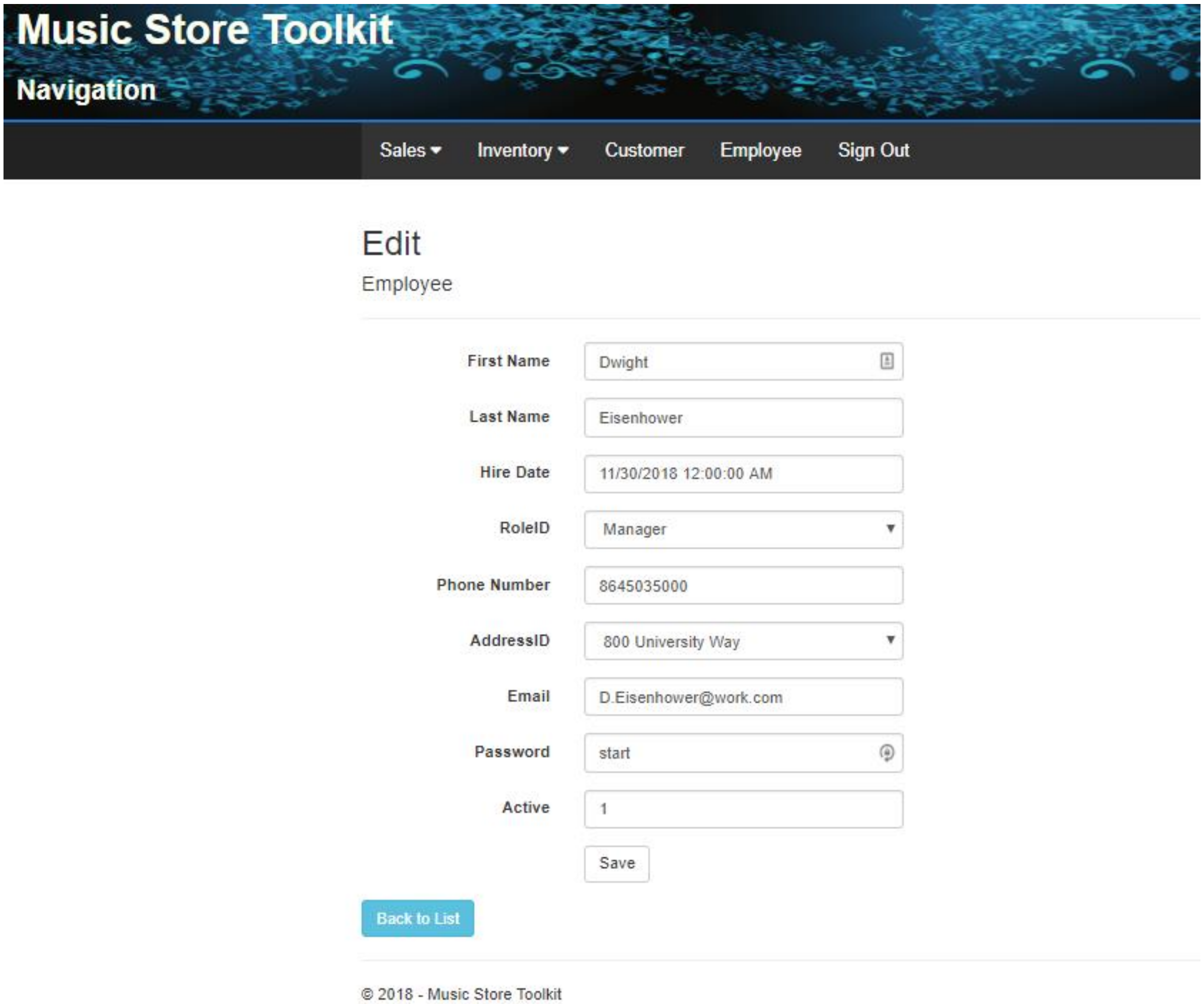
When the user selects one of the ‘Employee Lookup’ options from the employee landing page and enters the text the are searching for, clicking search will search the employee database for the text entered. The user can utilize the search field to find a specific employee to filter the grid list at the bottom of the view. The user can search on any one of the given fields; either by Employee ID, phone number, or first or last name. If the user selects an option to search by, the page will refresh depending upon the entered search criteria to display results of the search. The ‘edit’ link to the right side of the grid employee list will only be visible to Manager permission level employees. It will link the Manager level user to the ‘Edit Employee’ view if selected for the corresponding employee in the given row. The employee number in the ‘Employee ID’ section of the grid view will be an active link. If the user clicks on the linked employee number in the section, it will navigate the user to the ‘Employee Detail’ page for that specific employee number. Clicking on the ‘Reset Search’ button will allow a user to remove the search parameters, showing again the full employee index

Employee Detail View



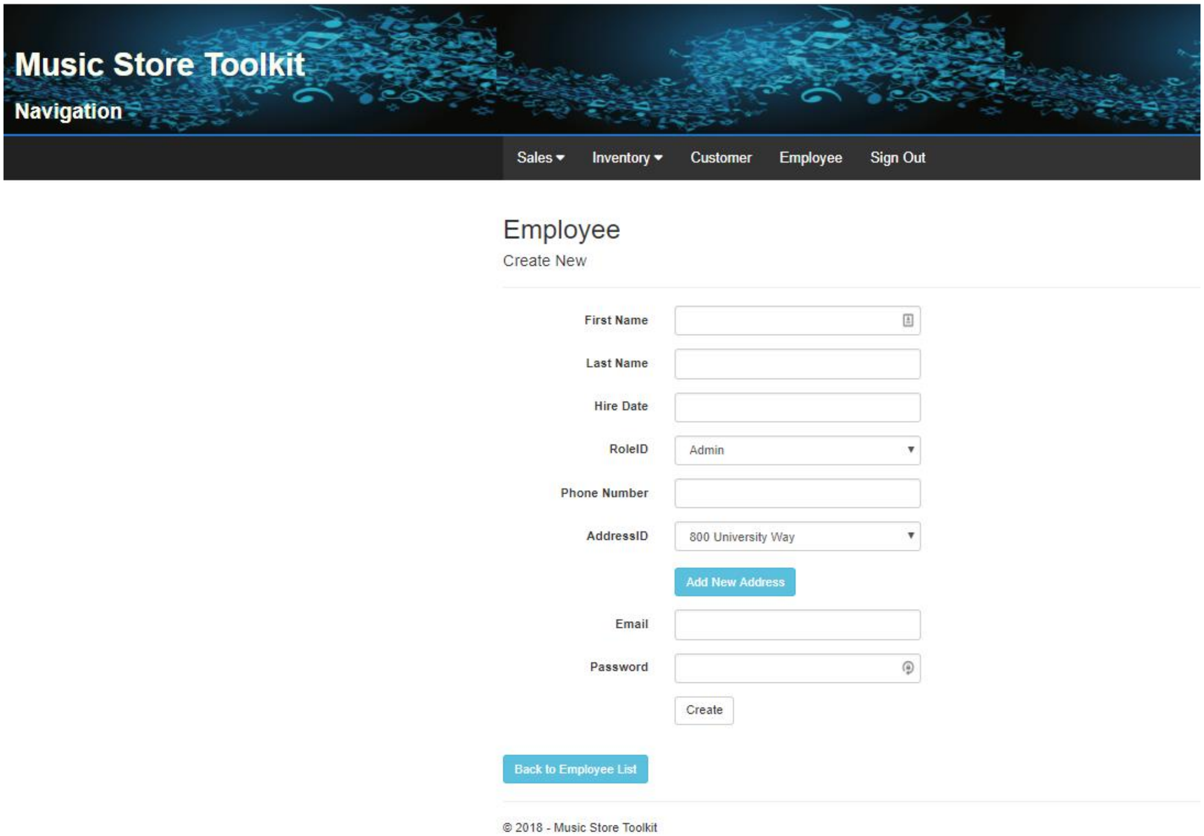
Selecting an employee from the list, utilizing the detail option form the action button, the user will navigate to the ‘Employee Detail’ view. This view displays employee information for a given employee: Employee ID, hire date, first and last name, employee role, phone number, email, and address. The ‘EDIT Employee’ link is only visible to Manager permission level employees. Manager level users can use the link to navigate to the ‘Edit Employee’ view.

Edit Employee View



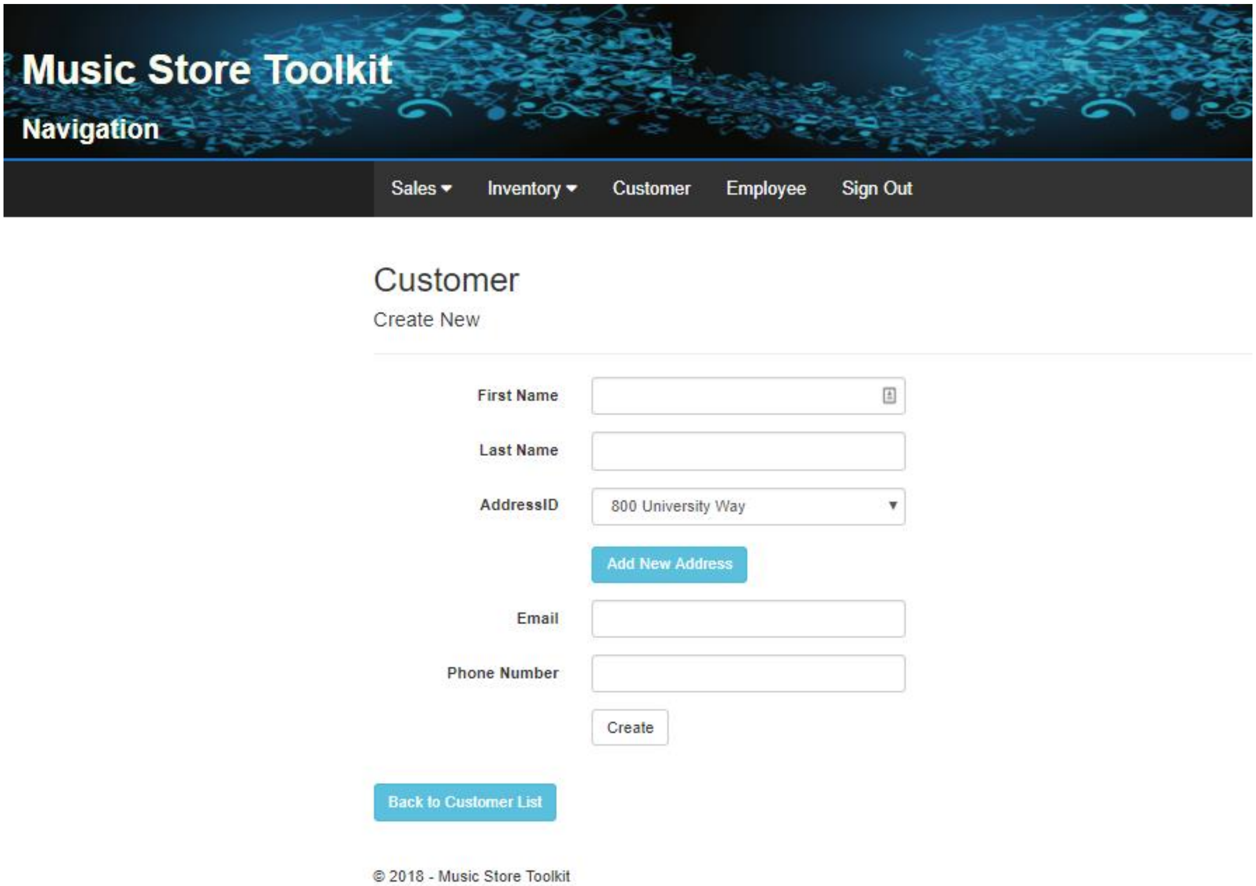
The Edit Employee view is only available to Manager level employees. This view will allow Managers to edit employee contact information and employee role. Phone number, email address, mailing address, and employee role are the fields available for edit to employee records. The user can select any one of the fields to create an edit or use the 'Return to Employee Menu' button to navigate back to the Employee Landing page. The 'DELETE Employee' link will allow the user to remove an entire employee record from the database if they wish to remove employees no long employed. (Note: 'Deleting will set an employee to inactive, this is to preserve data integrity, for removing an employee could delete sales.)

Add Employee View



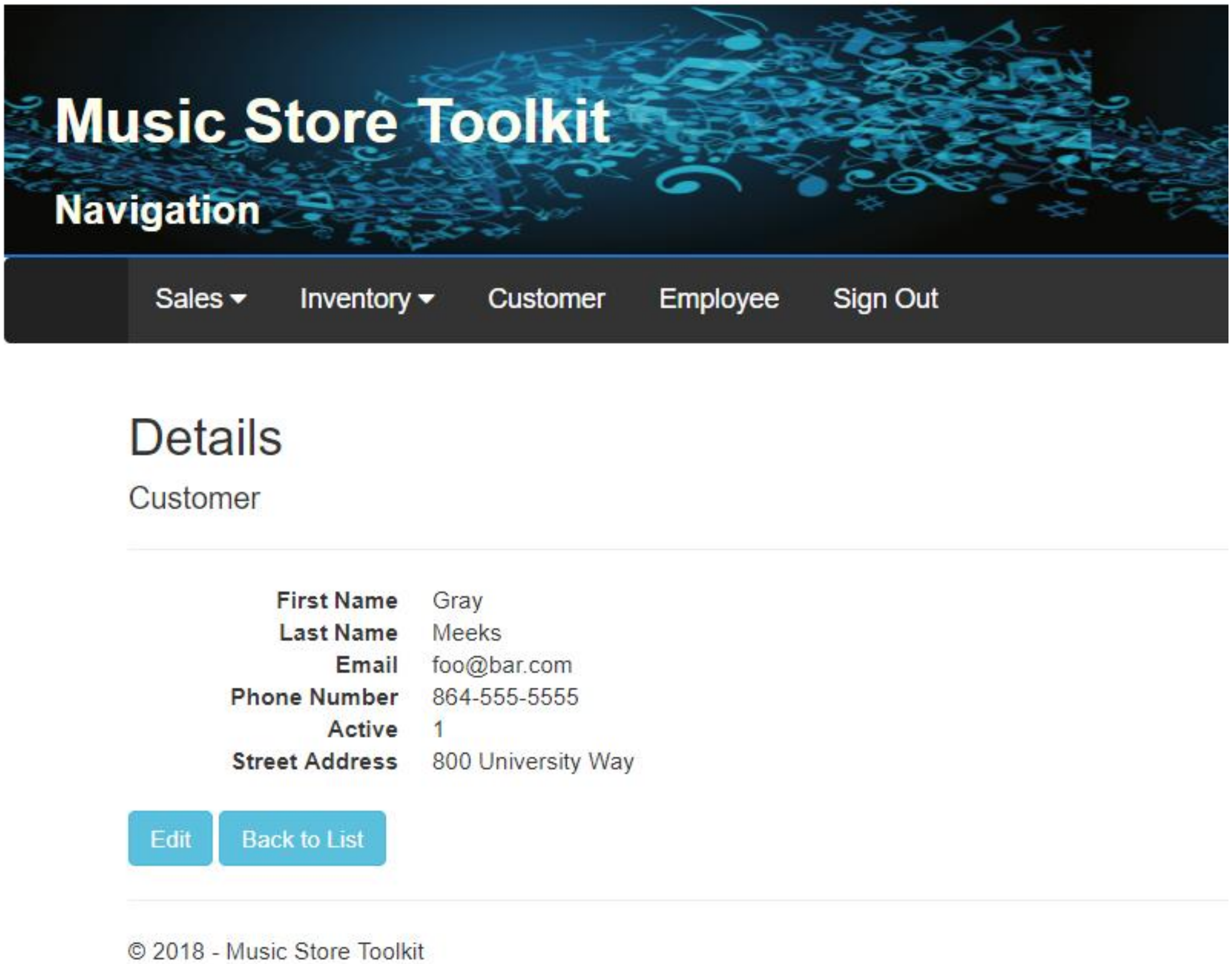
The Add Employee view is only available to Manager level employees. This view allows the user to create a new employee record. All fields are required for entry. The employee ID will be generated by the database as the record is created. Note, if the employees address is not currently in the database, an option to add address is given. Create the address and then return to the create employee page.

Add Customer Screen



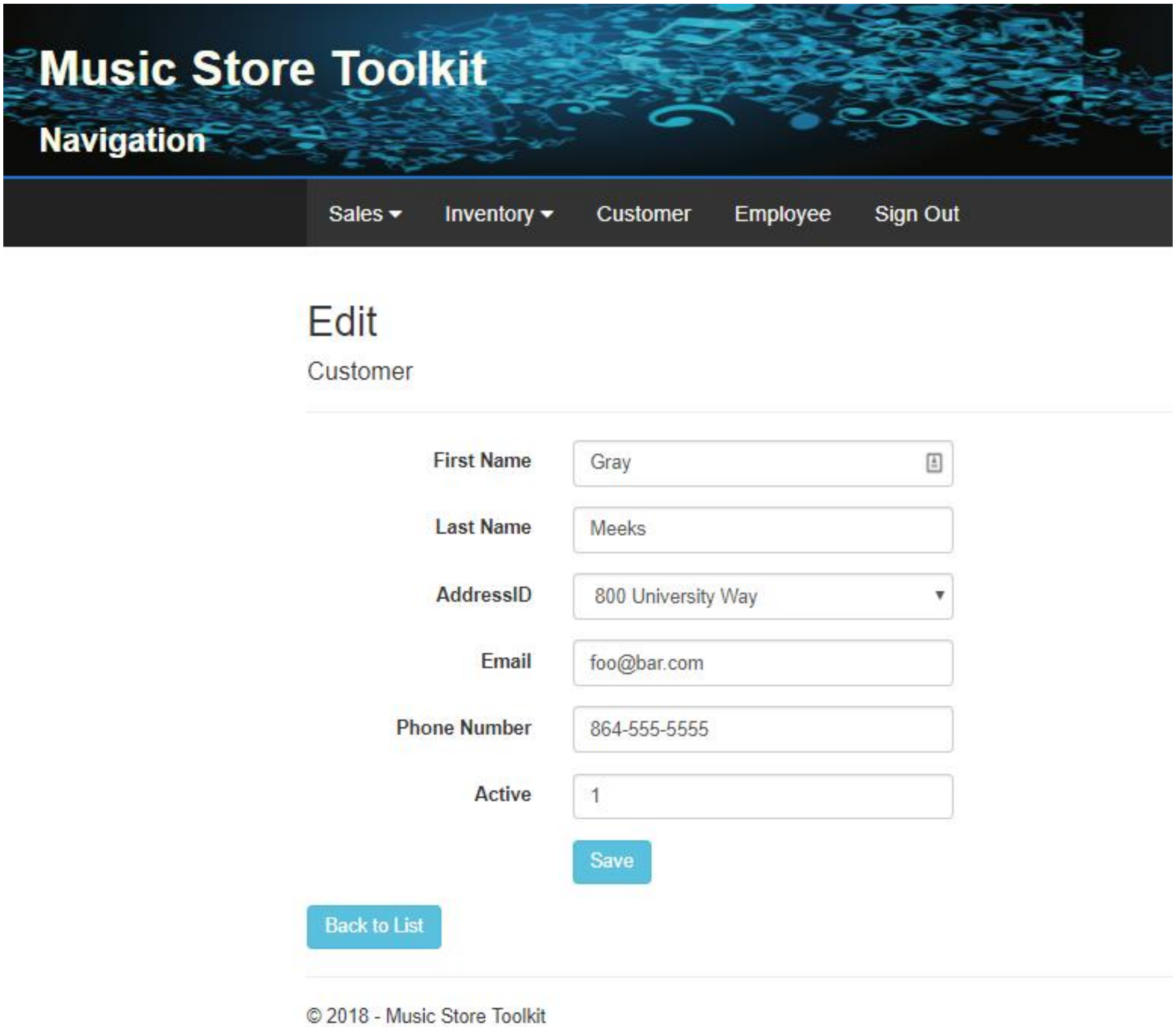
Add a customer by entering their First Name, Last Name, Phone Number, Email, and Address. Clicking Create New Customer saves all the information that was provided. Clicking Return to Customer Menu will return to the main customer screen. The tabs above will take you to their respective screens. Please note, if a customers address is not currently in the database, you will need to add the address, then return to the customer add page and select from the drop down.

Customer Detail Screen



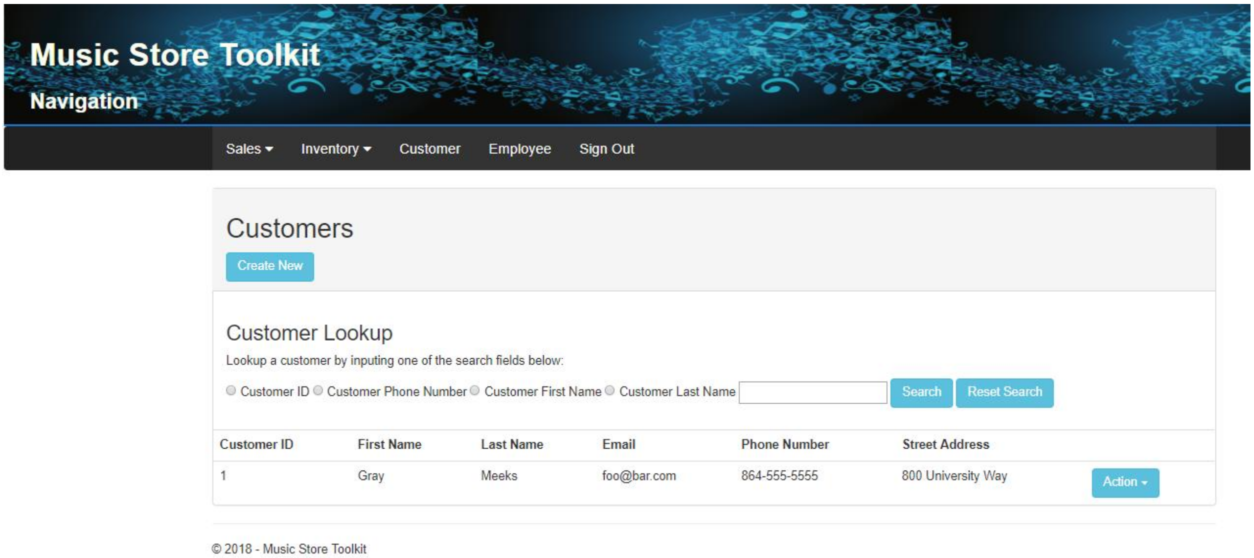
This screen shows the information for the selected customer. Clicking Add/Create Customer Purchase will take you to a screen where you can create a purchase for the selected customer. Clicking Back to List takes you back to the main customer screen. Clicking the tabs above will take you to their respective screens.

Edit Customer Screen



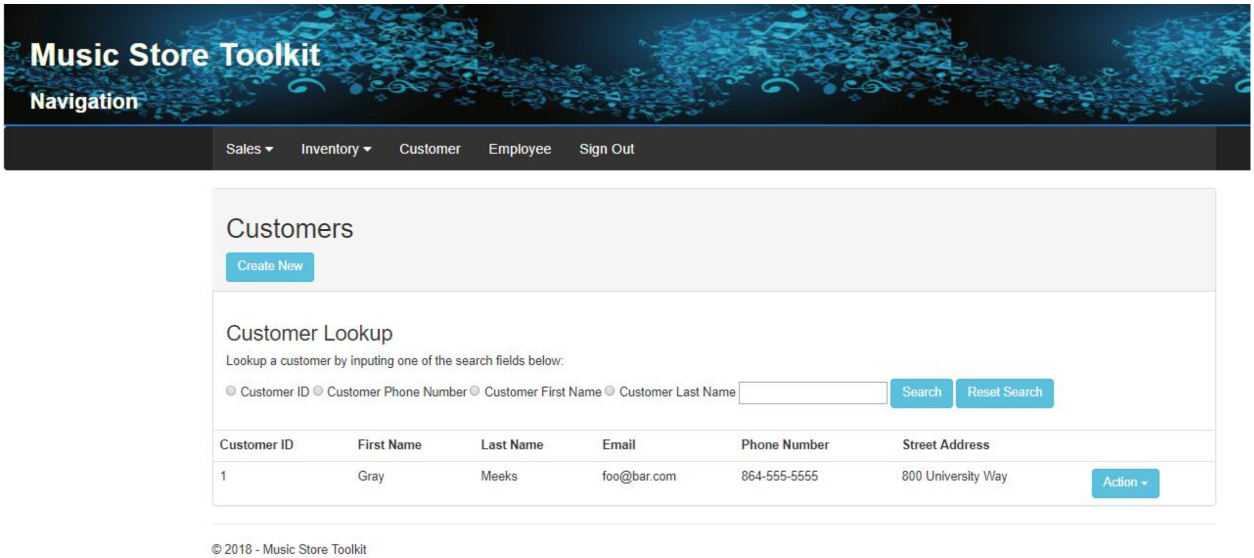
On this screen, you can edit the details of the customer. The text will be auto-filled with the previous information, and you may make changes where necessary. Click Submit Edit to confirm changes. Click DELETE Customer to delete the customer from the system. Clicking Return to Customer Menu takes you back to the main customer screen. Clicking the tabs above will you take you to their respective screens. (Note: deleting a customer will only place them in an inactive state for data integrity. This will however remove them from index on the main page.

Customer Lookup Screen



On the customer index screen, you can search for any given customer by your choice of Customer ID, Phone Number, First Name, or Last Name. If a customer is not found, a message will be displayed saying Customer Not Found. If customer is found, all of their information will be listed. At this point, you can click the ‘Action’ button, then clicking ‘Edit’ and be taken to the Customer Edit screen. Clicking Return to Customer menu takes you back to the main customer screen. Clicking the tabs above will take you to their respective screens.

Customer Menu Screen



On this screen, you will have the option to Create New customer, Search for a customer or Lookup a customer based on several options. Each button will take you to their respective screens. Clicking the tabs above will take you to their respective screens.

3.2 Hardware Interfaces

4 Other Non-functional Requirements

4.1 Performance Requirements

<*If there are performance requirements for the product under various circumstances, state them here and explain their rationale, to help the developers understand the intent and make suitable design choices. Specify the timing relationships for real time systems. Make such requirements as specific as possible. You may need to state performance requirements for individual functional requirements or features.*
TODO: Provide at least 3 different performance requirements based on the information you collected from the client. For example you can say "1. Any transaction will not take more than 10 seconds, etc…>

4.2 Safety and Security Requirements

<*Specify those requirements that are concerned with possible loss, damage, or harm that could result from the use of the product. Define any safeguards or actions that must be taken, as well as actions that must be prevented. Refer to any external policies or regulations that state safety issues that affect the product's design or use. Define any safety certifications that must be satisfied. Specify any requirements regarding security or privacy issues surrounding use of the product or protection of the data used or created by the product. Define any user identity authentication requirements.*
TODO:

- *Provide at least 3 different safety requirements based on your interview with the client or, on your ABM related research, and again you need to be creative here.*
- *Describe briefly what level of security is expected from this product by your client and provide a bulleted (or numbered) list of the major security requirements.>*

4.3 Software Quality Attributes

<*Specify any additional quality characteristics for the product that will be important to either the customers or the developers. Some to consider are: adaptability, availability, correctness, flexibility, interoperability, maintainability, portability, reliability, reusability, robustness, testability, and usability. Write these to be specific, quantitative, and verifiable when possible. At the least, clarify the relative preferences for various attributes, such as ease of use over ease of learning.*

TODO: Use subsections (e.g., 4.3.1 Reliability, 4.3.2 Portability, etc…) provide requirements related to the different software quality attributes. Base the information you include in these subsections on the material you have learned in the class. Make sure, that you do not just write "This software shall be maintainable…" Indicate how you plan to achieve it, & etc…Do not forget to include such attributes as the design for change. You should include at least 2 quality attributes.>

5 Other Requirements

*<This section is **Optional**. Define any other requirements not covered elsewhere in the SRS. This might include database requirements, internationalization requirements, legal requirements, reuse objectives for the project, and so on. Add any new sections that are pertinent to the project.*>