CS 6314 - WEB PROGRAMMING LANGUAGES - FINAL PROJECT

PROJECT REPORT

AUTO PARTS STORE

TEAM 60 –FALL 2021

Submitted By:

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PROJECT TITLE: AUTO PARTS STORE

NAME FOR THE WEBSITE: AUTOCOMM

PROJECT DESCRIPTION

This website is an online e commerce website that is used to sell products related to Auto parts and helps the user in buying those items. This AutoComm website is used to sell products like battery, ignition parts, gauges, meters, and the devices that are used in any Automobile. The user can filter the products based on the categories or even search for their desired product present in the given category. The user can add their item to the cart by providing the quantity value for it and checkout from the cart. They can even remove the product from the cart if they don't want it. The user can buy items from AutoComm on if they are a registered user. The Admin can view, insert, update and delete the products using his credentials. So, this is the description of our AutoComm website. Give it a try!

SOFTWARE REQUIRED

The below applications are required to run the application successfully

- NodeJS Server
- Express JS
- MongoDB Robo 3T
- Browser
- Bootstrap

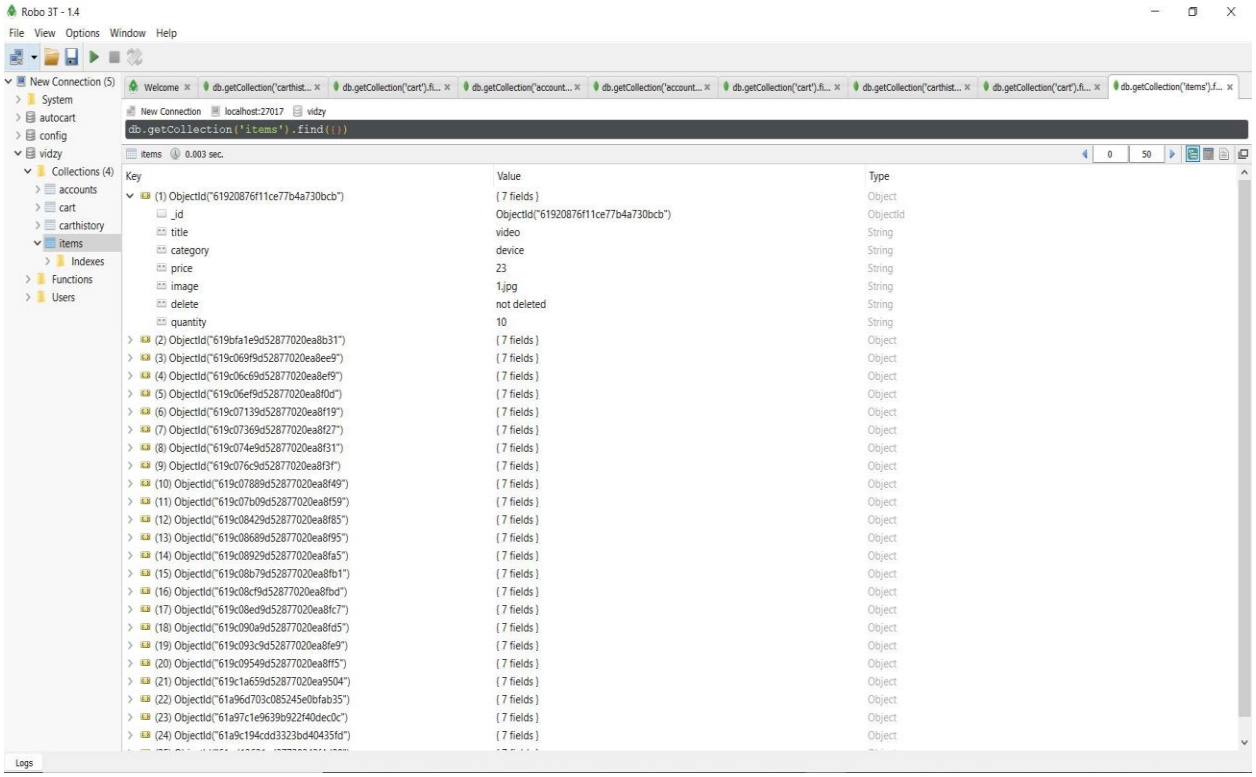
TECHNOLOGIES USED

The below technologies were employed to design the application

- MongoDb
- ExpressJS,NodeJS, PassportJS, MongooseJS.
- HTML, CSS, Bootstrap
- JQuery and Ajax

DATABASE DESIGN

We designed a database called Vidzy. We created four collections which include accounts, cart, cart history and the items collection. The accounts collection has the data of the user which includes username, the password where it is hashed. The cart collection has the data of the product that has been added into the cart by the currently logged in user. The Cart history has the data of the product that has been ordered by the currently logged in user. The Items collection has the data of the product that includes the title, price, the quantity of the product in the stock, the category and the image name.



IMPLEMENTATION SCREENSHOTS

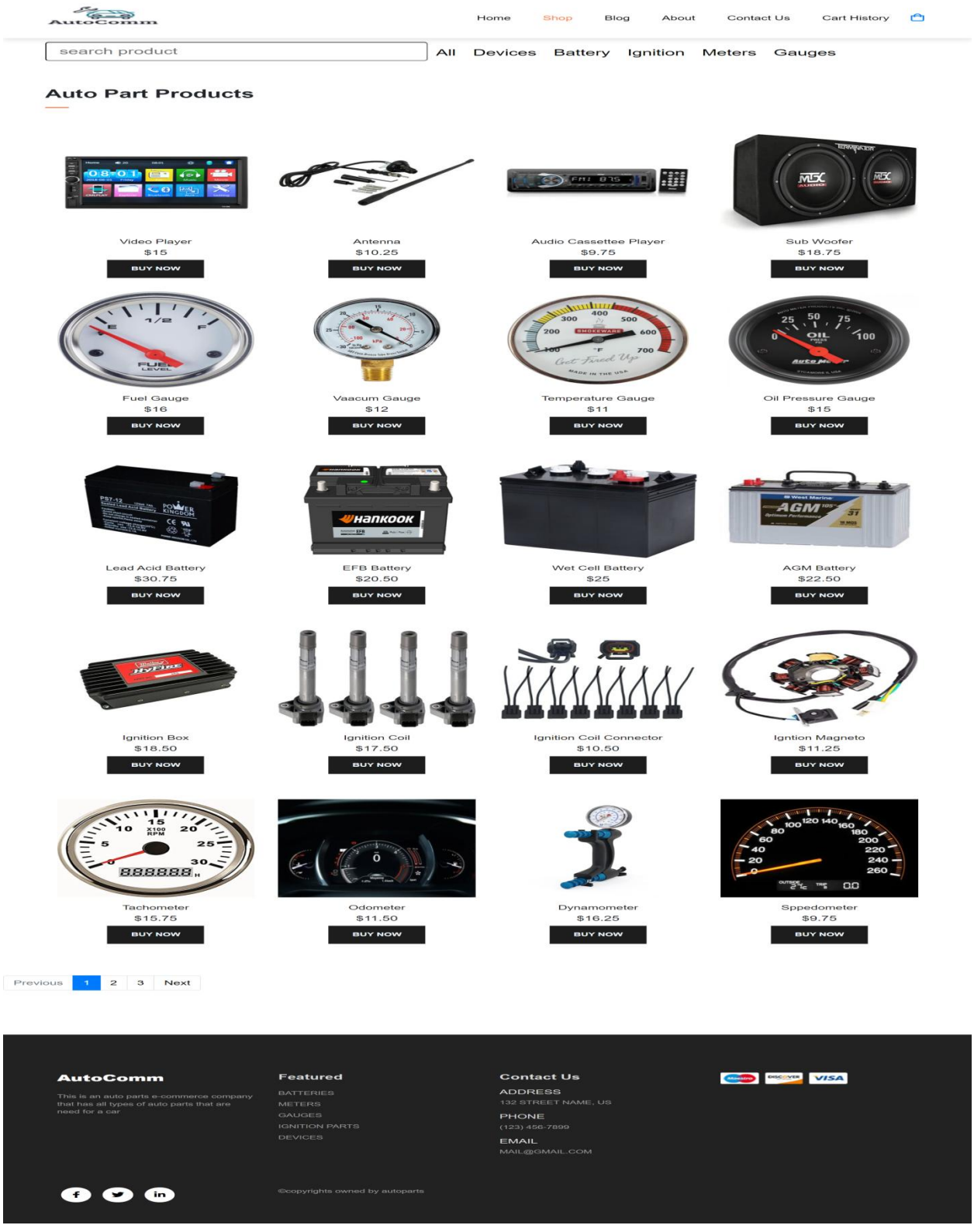


Fig 1: The Complete shopping page

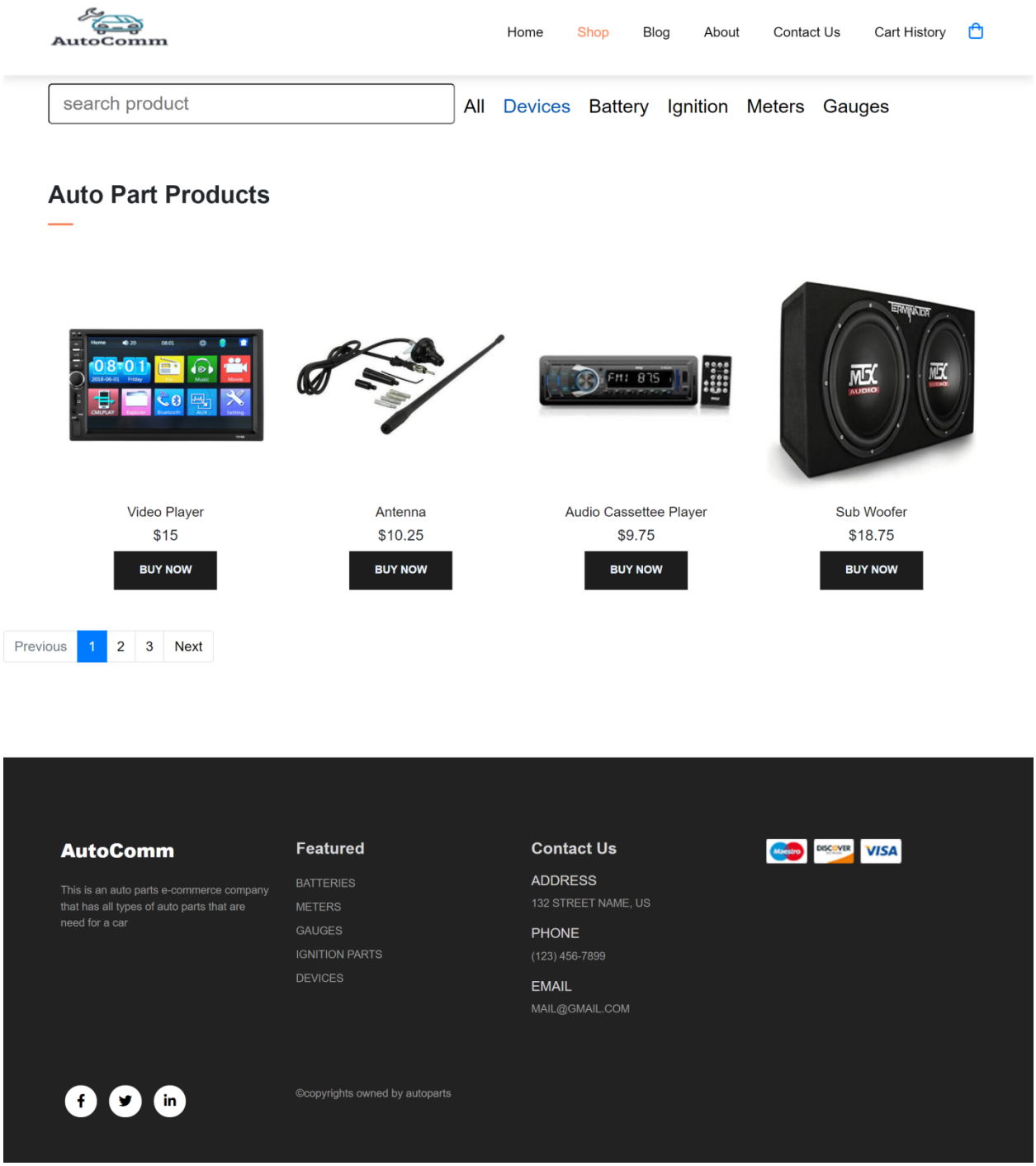


Fig 2: Filters and displays only the items in Devices Category

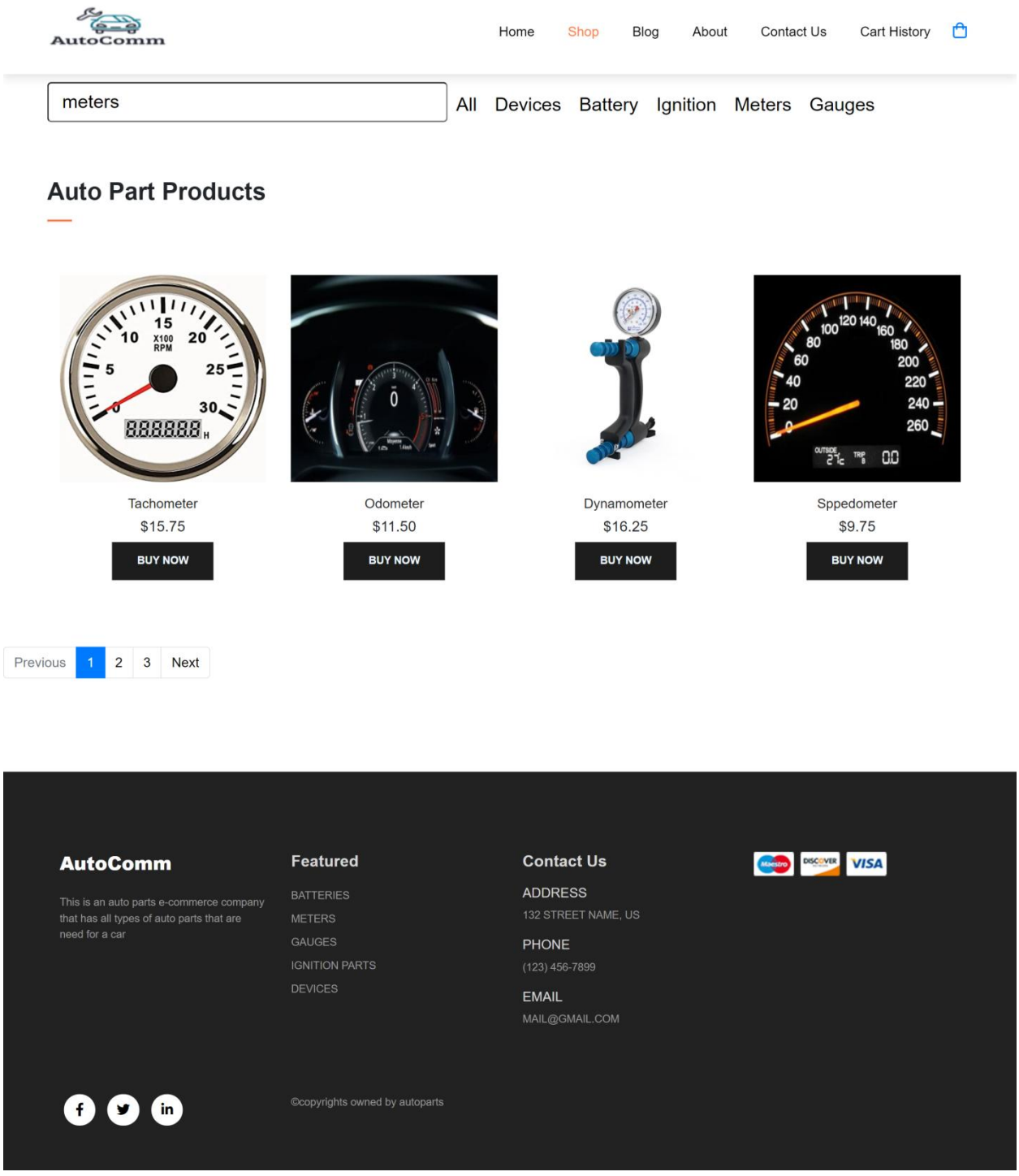


Fig 3: Searches and displays only the items in Meters Category

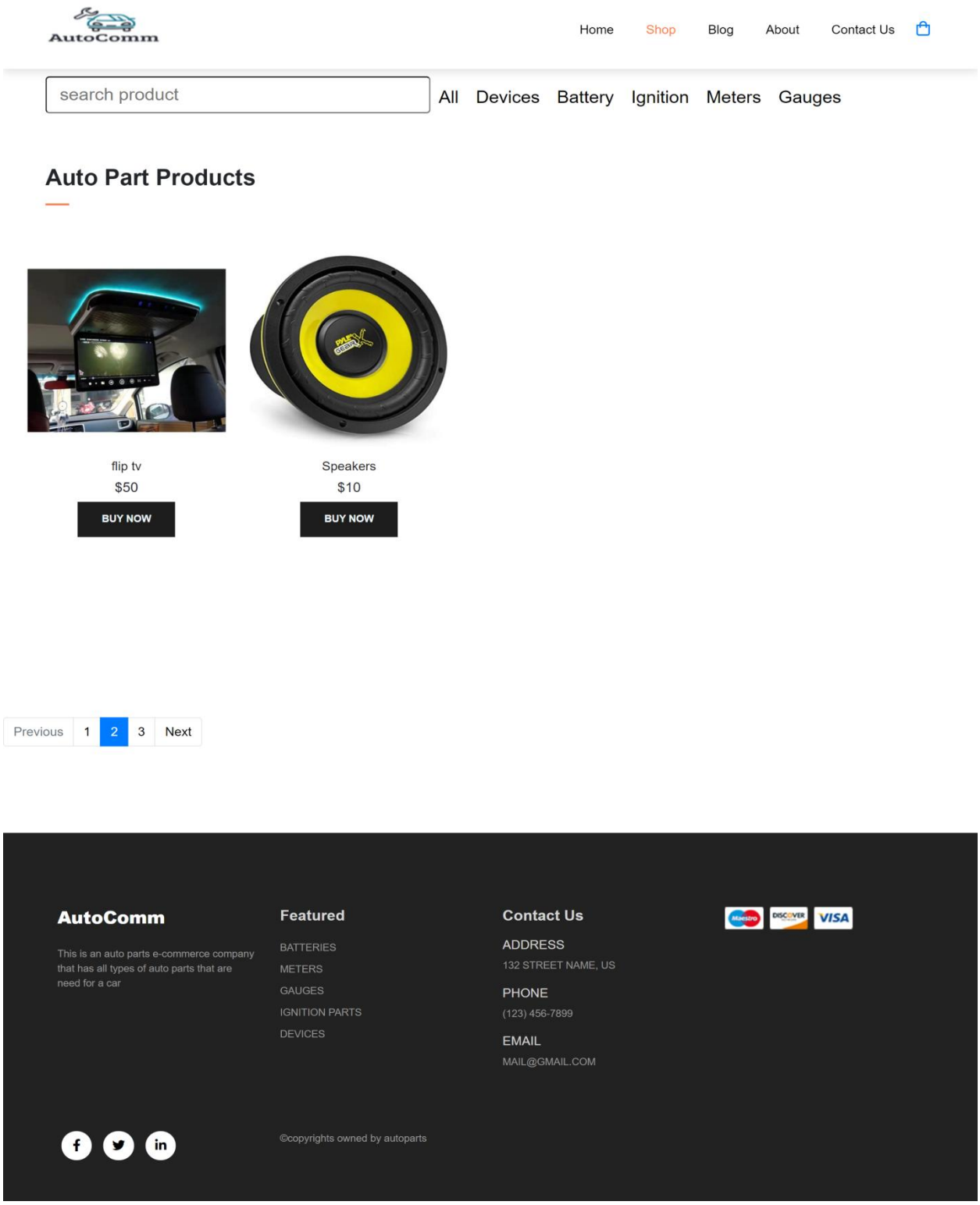


Fig 4: Pagination Functionality, displays the products in second page

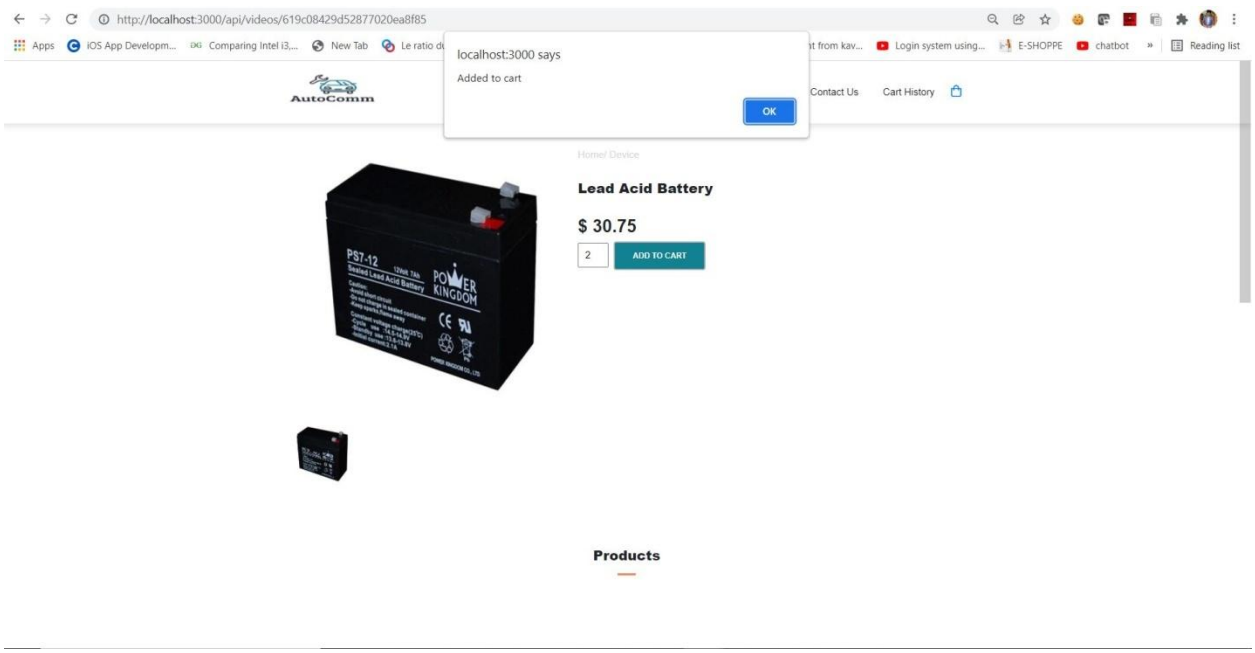


Fig 5: Adding the lead acid battery into the cart with quantity specified as 2

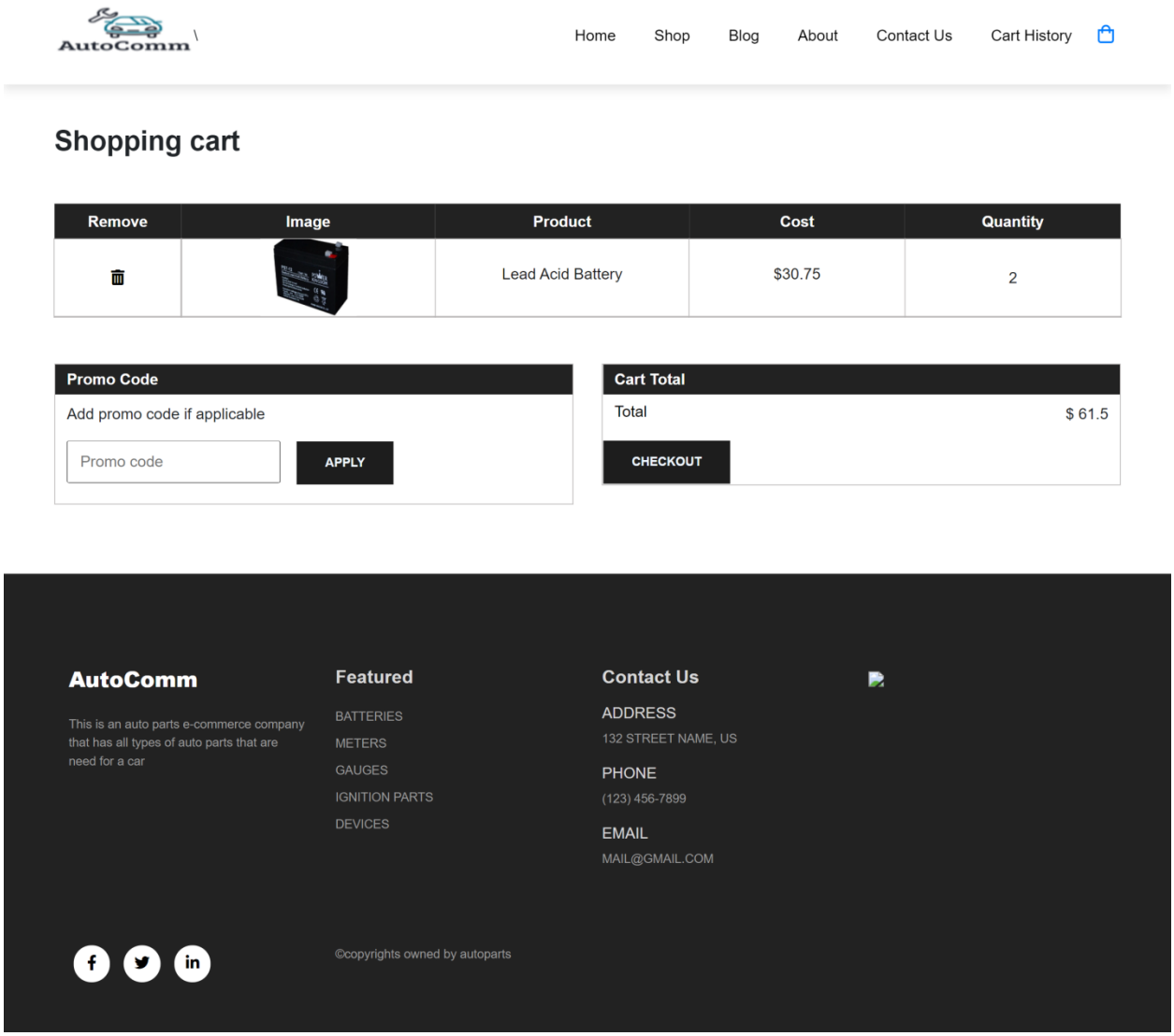


Fig 6: The product has been added into the cart

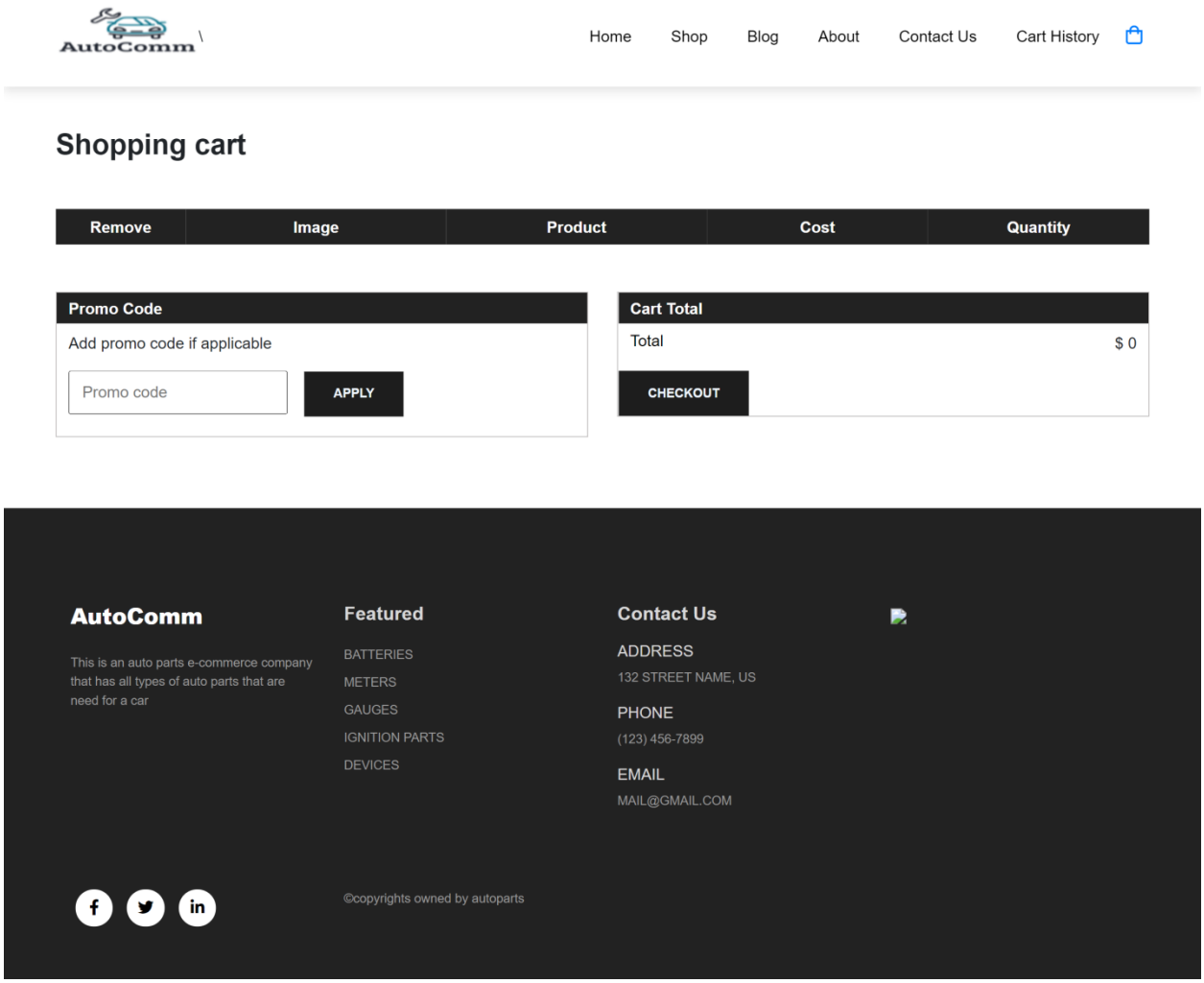


Fig 7: The user removes the product from the cart using the delete button

TEAM MEMBERS: NAMES AND NET-IDS FOR TEAM MEMBERS

Naveen Senthil Kumar - NXS200067 (6314.001)

Preetham Rao Gottumukula -PXG210001 (6314.003)

Manikantan Arcot -MXA200072 (6314.001)

WORK DIVISION AMONG TEAM MEMBERS

Front-end design:

- User signup, User login and Listing available products was done by Preetham Rao Gottumukula.
- Search & Filtering, Adding and removing items to the cart and checkout was done by - Naveen Senthil Kumar
- Pagination for user account and Admin account was done by – Manikantan Arcot

Back-end design:

- API's for Signup and Login was done by using NodeJS and expressJS framework, this was taken care by Preetham Rao Gottumukula.
- Updating cart and Admin account backend was done by Manikantan Arcot.
- Retrieving data from database and AJAX has been used to build user interfaces after API's are consumed and it was taken care by Naveen Senthil Kumar.

DEMO LINK (YOUTUBE):

https://youtu.be/OKlG_KrTyGE