Project Title: Online Tech Store Web Development

Website Name: Online Tech Store

Project description:

This project aims to design and develop a website for online tech store, which can be used in real word. The model applies to business model that anyone can be a buyer or a seller. An admin is needed to manage the whole website. In more detail, we have two types of people involved in the business. One is Admin, who can manage all the products posted in the website. Admin can add a new product, delete a product posted by admin or any user, and update the information of product posed in the website. The other type of people is user, who can add a new product on the website to sell, delete/update a product posted by the user. This website implemented the following functions:

1. User sign up and login: a user can create his/her own account to keep track of his/her wish list and purchase record, manage his/her posted product.
2. Search or filter: any user who wants a specific product can search by keyword, or filter by category. User can also just list all the products by page.
3. Wish list: a user who has been logged in can add/delete/update a product in or out of his/her wish list.
4. Purchase: a user can purchase a product in the product information page. The database will update the inventory when a user purchase some product.
5. Purchase record: a user can see his/her purchase record and reviews of a product on the product information page.
6. For add new product: a user or admin would need to provide product name, description, image (URL or local file), price, number of product in stock.
   For update product: a user is able to update any information of a product.
   For delete product: when user or admin delete the product, the product would not listed on the website, but when the quantity of a product is set to 0, the product would be shown out of stock.

Database Design:

We use MongoDB for database component. We have user.js, tech.js, comment.js, wishlist.js to represent the data model. The following provide the information about data model.

user.js: attributes are username, password.

tech.js: attributes are name, price, quantity, image, description, author (id, username), and comments.

comment.js: attributes are text, quan, author (id, username).

Wishlist.js: the same attributes as tech.js plus attribute belong.

Languages/frameworks used:

For front-end: EJS as view engine, bootstrap and CSS for style.

For back-end: Express.js

Database: MongoDB

Node.js as the runtime for these framework

Screenshots for main functionalities:

Homepage:
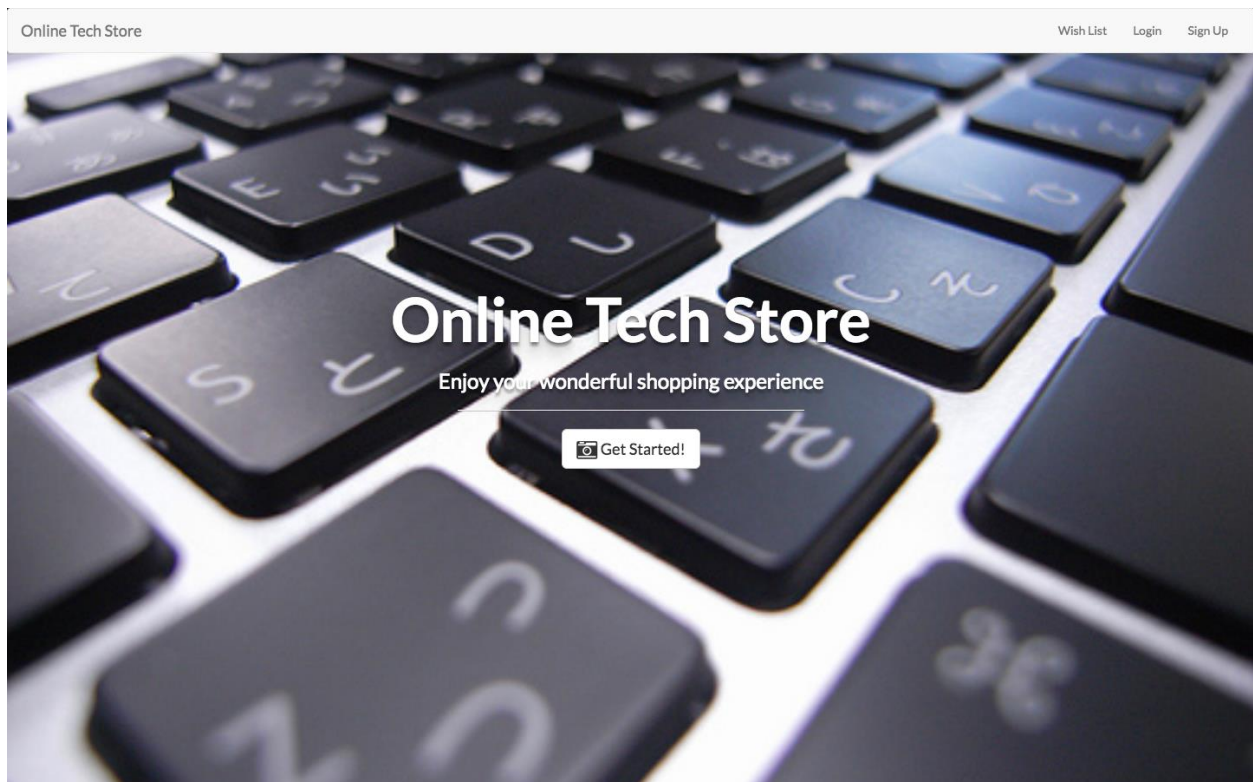
User sign up:

Sign Up

| Admin |
| .... |

Sign Up!

Go Back

User login:

Login

| Admin |
| .... |

Login

Go Back

Search:

Search List:

Fancy electronics handpicked by website's users

Add New Tech Product | Filter All Active Product

Surface Laptop

Search

Surface Laptop

More Info | Add to Wish List

Go Back

Wish list:

Your Wish List

Find the treasures you treasure

Thinkpad T470s

Delete

Macbook Air

Delete

Go Back

Purchase product:

Purchase Macbook Air

address

quantity

Submit!

Go Back

List all products:

Welcome To Online Tech Store!

Fancy electronics handpicked by website's users

Add New Tech Product · Filter All Active Product

Item Name

Search

Nest Learning Thermostat, 3rd Generation
More Info · Add to Wish List

GoPro HERO6 Black
More Info · Add to Wish List

DJI Phantom 4 Quadcopter
More Info · Add to Wish List

Google Pixelbook
More Info · Add to Wish List

Thinkpad T470s
More Info · Add to Wish List

Macbook Air
More Info · Add to Wish List

Surface Pro (newest version) Intel Core i5 / 128GB SSD / 4GB RAM
More Info · Add to Wish List

Google Home
More Info · Add to Wish List

First 1 2 3 Last

More information of selected product:

Successfully added purchase

Online Tech Store

Product Information
Price Math
Best Buy

Macbook Air   The seller still has **997** pieces left for $999/piece
Brand New
Created By joel002
Edit and Delete

Purchase

Admin
Order Quantity: **2** Payment Price: **1998**
Address: 800 W Renner Rd, Richardson, TX, 75080
Edit Delete

Update product information:

Edit Thinkpad T470s
Delete: set the quantity as 0

Thinkpad T470s

1299

100

/images/userFile-1511667126630.png

This is a test description.

Update Tech Product Picture:
Choose File   No file chosen

Submit!

Go Back

Team Members:

Tianqi Zhu, txz160930

Yuzhuang Feng, yxf160930

You Jia, yxj161630

Work division:

Every member of the team work together to complete this project. The following mention who contribute more on which part.

Server side scripting: Tianqi Zhu, Yuzhuang Feng

Client-side scripting: Yuzhuang Feng, You Jia

Database Design: You Jia, Tianqi Zhu