E-CART BACKEND PROJECT

Batch:- CV Raman

Team Members

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Duration:- 2 weeks

Pre-Requisites:-

Before you begin you ensure that you have to install the latest version Node.JS,MongoDB(Atlas),Heroku

Why we are choose this Project?

Now a days all thing converted into the digital, so in feature street shops also maintains the websites to improve their business and income. So we are choose it and learn how these types of website works and work on it to develop the websites like e-commerce.

There will be 2 types of users:

1. Admin
    - Admin can login or logout
    - Admin can add and delete and update product pages
    - Admin can add multiple products and its images and its prices in products pages

2.USER

- User can login or logout
- User can save and delete items to cart after login

Technologies we will use:

1. Front-End
    - EJS
    - CSS
    - Bootstrap
2. Back-End
    - Node JS
    - Express JS
    - Data-Base :- MongoDB
    - Deployment :- Heroku

Modules :

1. **Nodemon** => This module is used to restart the server whenever changes are
   detected in directory
   instllation : npm I -g nodemon

2. **Express** => It is Node.js frame work used to simplify the things which we are using

   In project and also providing the more features.

   Allows middleware's setups.

   Allow rendering template engines.

   instllation : npm i -s express then require and use it in application

3. **Path** => it is built in express module gives absolute path of things we needed.

Initially it is built in express and after some years removes inbuilt from express after some years inbuilt with express because its requirement is huge.

__dirname : points the present directory path

Ex: users/desktop

Path.join (__dirname , 'poject') : points present directory with name directory

Ex: user/desktop/project

4. **Dotenv** => this module is used to store the all the environment variables(variables

   Which are using in project),it gives security to our variables

5. **Ejs** => this is the template engine, used for making the ui

6. **Mongoose** => it is module used in nodejs to give the more features to mongo db ,

   As mongo db is NOSQL so it has no structure initially but mongoose gives structure to it that's why we use mongoose.

7. **Bcrypt** => The **bcrypt** hashing function allows us to build a password security platform that scales with computation power and always hashes every password with a salt.

8. **Body-parser** =>**Body**-**parser** is the Node. js **body parsing** middleware. **body**-**parser** parses your request and converts it into a format from which you can easily extract relevant information that you may need. For example, let's say you have a sign-up form at your frontend.
9. **Cloudnary** =>**Cloudinary** is an end-to-end image- and video-management solution for websites and mobile apps,

covering everything from image and video uploads, storage, manipulations, optimizations to delivery.

10. **Cors** =>C**ORS** is a **node**. js package for providing a Connect/Express middleware that can be used to enable **CORS** with various options
11. **Express-sessions** =>**Session** management can be done in **node**. **js** by using the **express**-**session** module. It helps in saving the data in the key-value form. In this module, the **session** data is not saved in the cookie itself, just the **session** ID
12. **Express-validator** =>**Express Validator** is an **Express** middleware library that you can incorporate in your apps for server-side data validation
13. **Multer** => **Multer** is a node. js middleware for handling multipart/form-data , which is primarily **used** for uploading files.

Future scope:

- Payment integration
- Customer support chat integration
- Gps integration
- Integrate the feature which will give the first preference to nearest store products when user buying products which available in nearest store.
- Integrate feature user can add products and delete and update products in the website.

For Demo please find the below link :- Login form (e-cart-backend-project.herokuapp.com)