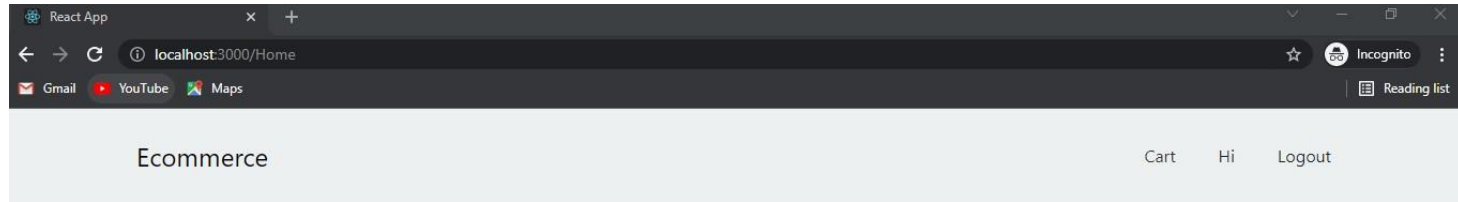


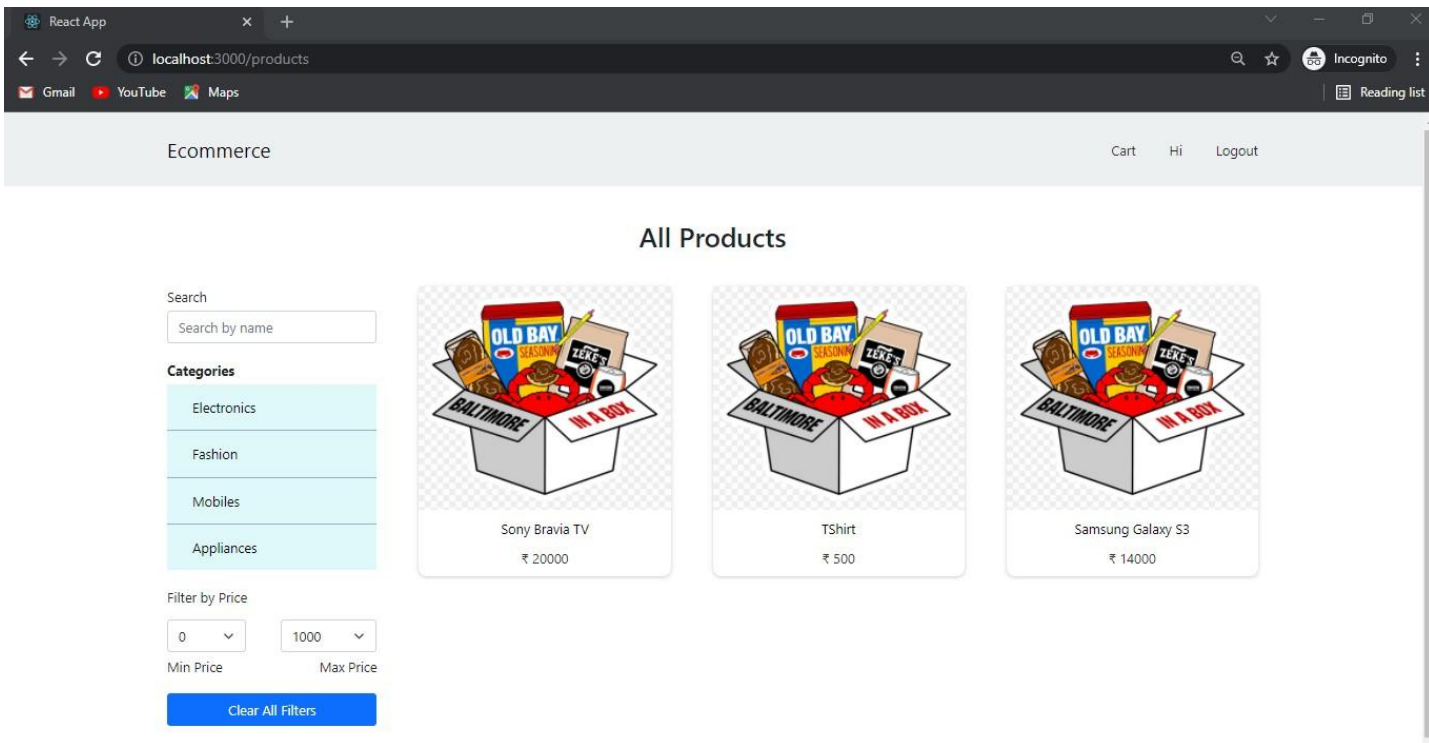
App Building: Ecommerce Website - Home Page and Product List Page

Relevel
by Unacademy

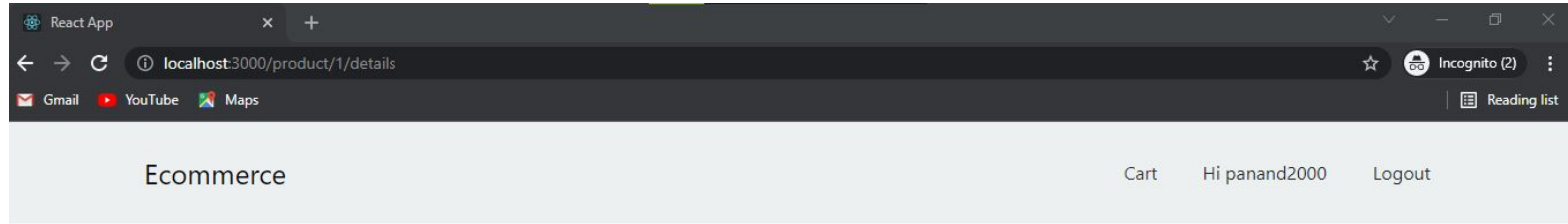
Home Page:



Product List page:



ProductDetails page:



List Categories

Models

```
const sqlConnection = require("../services/sqlConnection");

module.exports = {
  listCategories: function(callback) {
    var sql = "SELECT ID as categoryId, Name as name FROM Categories";
    var values = [];
    sqlConnection.executeQuery(sql, values, function(err, result) {
      callback(err, result);
    });
  }
};
```

List Categories

Controller

```
const Category = require("../models/category");
const {
  httpCodes
} = require("../constants/backendConfig");

module.exports = {
  listCategories: function (req, res) {
    var responseData = {
      success: false,
      msg: "Error in fetching categories"
    };
    Category.listCategories(function (err, result) {
      if (err) {
        return res.status(httpCodes.internalServerError).send(responseData);
      }
      responseData.success = true;
      responseData.msg = "Successfully fetched categories";
      responseData.categories = result;
      return res.status(httpCodes.success).send(responseData);
    });
  }
};
```

List Categories

Index

```
extends layout

block content
  h1= title
  p Welcome to #{title}
```

Routes

```
var express = require('express');
var router = express.Router();

/* GET home page. */
router.get('/', function (req, res, next) {
  res.render('index', { title: 'Ecommerce' });
});

module.exports = router;
```

List Categories

Category Api Route

```
const express = require("express");  
var router = express.Router();  
const categoryController = require("../../src/controllers/categoryController");  
  
router.post("/category/all", categoryController.listCategories);
```


List Categories

Category Api Working

Request URL: http://localhost:3000/api/v1/category/all

Request Method: POST

Status Code: 🟢 200 OK

Remote Address: [::1]:3000

Referrer Policy: strict-origin-when-cross-origin

```
▼ {success: true, msg: "Successfully fetched categories",...}
  ▼ categories: [{categoryId: 1, name: "Electronics"}, {categoryId: 2, name: "Fashion"},...]
    ▼ 0: {categoryId: 1, name: "Electronics"}
      categoryId: 1
      name: "Electronics"
    ▼ 1: {categoryId: 2, name: "Fashion"}
      categoryId: 2
      name: "Fashion"
    ▼ 2: {categoryId: 3, name: "Mobiles"}
      categoryId: 3
      name: "Mobiles"
    ▼ 3: {categoryId: 4, name: "Appliances"}
      categoryId: 4
      name: "Appliances"
    ▼ 4: {categoryId: 5, name: "Groceries"}
      categoryId: 5
      name: "Groceries"
    msg: "Successfully fetched categories"
    success: true
```

Product Page

Filters

- a. By name
- b. By Category Id
- c. By min Price
- d. By max Price

Search

Categories

Electronics

Fashion

Mobiles

Appliances

Groceries

Filter by Price

 ▾

Min Price

 ▾

Max Price

Clear All Filters

List Products

Models

```
const sqlConnection = require("../services/sqlConnection");

module.exports = {
  listProducts: function(data, callback) {
    var sql = "SELECT ID AS productId, Name AS name, Price AS price FROM Products";

    var values = [];
    if(data.categoryId) {
      sql += " WHERE CategoryId = ?"
      values.push(data.categoryId);
      if(data.query) {
        sql += " AND LOCATE('" + data.query + "', Name)";
      }
      if(data.minPrice) {
        sql += " AND Price >= " + parseInt(data.minPrice, 10);
      }
      if(data.maxPrice && parseInt(data.maxPrice, 10) > 0) {
        sql += " AND Price <= " + parseInt(data.maxPrice, 10);
      }
    } else if(data.query) {
      sql += " WHERE LOCATE('" + data.query + "', Name)";
      if(data.minPrice) {
        sql += " AND Price >= " + parseInt(data.minPrice, 10);
      }
      if(data.maxPrice && parseInt(data.maxPrice, 10) > 0) {
        sql += " AND Price <= " + parseInt(data.maxPrice, 10);
      }
    } else if(data.minPrice) {
      sql += " WHERE Price >= " + parseInt(data.minPrice, 10);
      if(data.maxPrice && parseInt(data.maxPrice, 10) > 0) {
        sql += " AND Price <= " + parseInt(data.maxPrice, 10);
      }
    } else if(data.maxPrice && parseInt(data.maxPrice, 10) > 0) {
      sql += " WHERE Price <= " + parseInt(data.maxPrice, 10);
    }

    sqlConnection.executeQuery(sql, values, function(err, result) {
      callback(err, result);
    });
  },
};
```

List Products

Controller

```
const Product = require("../models/product");
const {
  httpCodes
} = require("../constants/backendConfig");

module.exports = {
  listProducts: function (req, res) {
    var data = req.body;
    var responseData = {
      success: false,
      msg: "Invalid params for fetching products"
    };
    Product.listProducts(data, function (err, result) {
      if (err) {
        responseData.msg = "Error in fetching products";
        return res.status(httpCodes.internalServerError).send(responseData);
      }
      responseData.success = true;
      responseData.msg = "Successfully fetched products";
      responseData.products = result;
      return res.status(httpCodes.success).send(responseData);
    });
  }
};
```

List Products

Route

```
const express = require("express");  
var router = express.Router();  
const productController = require("../../src/controllers/productController");  
  
router.post("/product/all", productController.listProducts);  
  
module.exports = router;
```

Add Products

Model

```
const sqlConnection = require("../services/sqlConnection");

module.exports = {
  addProduct: function(data, callback) {
    var sql = "INSERT INTO Products (Name, Price, Description, CategoryID, VendorID, CreatedAt, UpdatedAt) "
      + "VALUES (?, ?, ?, ?, ?, now(), now())";
    var values = [];
    values.push(data.name);
    values.push(data.price);
    values.push(data.description);
    values.push(data.categoryId);
    values.push(data.vendorId);
    sqlConnection.executeQuery(sql, values, function(err, result) {
      callback(err, result);
    });
  },
};
```

Add Products

Controller

```
const Product = require("../models/product");
const {
  httpCodes
} = require("../constants/backendConfig");

module.exports = {

  addProduct: function (req, res) {
    var data = req.body;
    var responseData = {
      success: false,
      msg: "Invalid params for adding product"
    };
    if (data.name && data.price && data.description && data.categoryId &&
data.vendorId) {
      Product.addProduct(data, function (err) {
        if (err) {
          responseData.msg = "Error in adding product";
          return
res.status(httpCodes.internalServerError).send(responseData);
        }
        responseData.success = true;
        responseData.msg ="Successfully added product";
        return res.status(httpCodes.success).send(responseData);
      });
    } else {
      return res.status(httpCodes.badRequest).send(responseData);
    }
  },
};
```

Add Products

Route

```
const express = require("express");
var router = express.Router();
const productController = require("../../src/controllers/productController");
router.post("/product/add", productController.addProduct);

module.exports = router;
```


Get Product Details

Model

```
const sqlConnection = require("../services/sqlConnection");

module.exports = {
  getProductDetails: function(data, callback) {
    var sql = "SELECT p.Name AS name, p.Price AS price, p.Description AS  
description, if((SELECT COUNT(*) "  
      + "FROM OrderDetails AS od LEFT JOIN OrderItems AS oi ON oi.OrderID =  
od.ID WHERE oi.ProductID = p.ID"  
      + " AND od.UserID = ? AND od.OrderStatus = 1) > 0, 1, 0) AS addedToCart  
FROM Products AS p WHERE p.ID = ? LIMIT 1";
    var values = [];
    values.push(data.userId);
    values.push(data.productId);
    sqlConnection.executeQuery(sql, values, function(err, result) {
      callback(err, result);
    });
  },
};
```

Get Products Details

Controller

```
const Product = require("../models/product");
const {
  httpCodes
} = require("../constants/backendConfig");

module.exports = {
  getProductDetails: function (req, res) {
    var data = req.body;
    var responseData = {
      success: false,
      msg: "Invalid params for fetching product details"
    };
    if (data.productId && data.userId) {
      Product.getProductDetails(data, function (err, result) {
        if (err) {
          responseData.msg = "Error in fetching product details";
          return;
        }
        res.status(httpCodes.internalServerError).send(responseData);
      }
      responseData.success = true;
      responseData.msg = "Successfully fetched product details";
      responseData.productDetails = result[0];
      return res.status(httpCodes.success).send(responseData);
    });
  } else {
    return res.status(httpCodes.badRequest).send(responseData);
  }
}
};
```

Get Products Details

Route

```
const express = require("express");
var router = express.Router();
const productController = require("../../src/controllers/productController");

router.post("/product/details", productController.getProductDetails);

module.exports = router;
```

MCQs

1. 200, 400 status code stands for:
 - a. success, bad request
 - b. Bad request, success
 - c. Internal error, Success
 - d. Success, Internal error

MCQs

2. Modules can be exposed using:

- a. expose
- b. module
- c. exports
- d. All of the above

MCQs

3. HTTP status code for delete with NO CONTENT, when request body is empty?

- a. 200
- b. 201
- c. 204
- d. 304

MCQs

4. Which of the following is not an HTTP method?

- a. Create
- b. Put
- c. Post
- d. Option

MCQs

5. Which object is used to send the data to user.

- a. Response Object
- b. Request Object
- c. Next Object
- d. sqlConnection Object

Practice/HW

1. Create few products in the database using /product/add.
2. Add more filters in products.

Thank you