

# INVENTORY MANAGEMENT SYSTEM

assignment12\_category\_0018

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## Rules that you have to Follow

### 1. Make a Good Interactive UI

Focus on making the website visually appealing. Ensure that

- Color contrast is pleasing to the eye
- The website does not have a gobindo design
- The website has proper alignment and space`
- If needed, customize the design of any component you are taking from any component library. (For example, you are using daisy ui & have taken a card component from Daisy, if needed, customize the styling of the card to make it reasonable rather than just copy & paste it.)

**Note:** Your website can not be related to your previous assignments' layout/ design or any practice project shown in the course modules or our conceptual sessions. Ex: You can't copy any design or similar functionality/ layout of

Bistro-Boss, StayVista, Dragon news , Espresso Emporium, Genius Car, Career Hub Website, any conceptual session projects, or projects showed in our course or any of your previous assignments

If any similarities are found, you will get zero(0) with no penalty.

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### 2. Application must be Relevant with Inventory management System Theme.

Read The Theme Description carefully to create a clear cut understanding about the application that you will make.

#### Theme Description :

You have to create a simple Inventory Management System that will provide management capabilities to the registered shop like managing product, managing discounts, managing categories, managing sales , invoice generation, and many more. All will be discussed in the requirement section.

#### User Roles and Authorization

In The System, Their will be three Role

##### 1. System-Admin

- System Admin can show all the Shop and send notices to the shop-owner
- System Admin Can view The Details of shops, all their Products

##### 2. Shop-Manager

- Shop Manager will have following functionality
  - Product Management

- Add , Manage , Delete, view , Search Product by Name
- **Offers and Coupon**
  - Add Discount to All Product
  - Add Coupon for a period of Time
- **Payment and Subscription**
  - Payment through card for increase his product Adding Limit
- **Sale Collection**
  - View Products table , search Products
  - Add products to cart for current customer
  - Mark as paid the current Sale, generate invoice and database will update automatically
- **Sales Summary**
  - Can View Total Profit , Total Sell , Total Investment of that shop
  - Can View Sales history

### 3. Logged-User

- The User who will register on your system
- Logged in user will have following functionalities
  - **Shop-Creation**
    - A user can create only one shop
    - Can create a Shop
    - Can be a shop-Manager of a existing shop

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😊 I hope you will get a proper idea. 😊

### Category Choosing Alert

**You can't do any restaurant shop / hotel management related inventory management. If you do this you will get zero as a penalty.**

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Okay, Enough Talking . Now get back to the job. Stay cool. Work with below requirements. Don't panic.

## Let's Read The requirement from scratch



# Requirements

## 1. Layout

There will be 2 Layout for the whole System

Basic Layout	Dashboard Layout	
	ShopLogo	Content
	Menu's	
	Home	
	Log-Out	
	Footer	
Home , Login , Register , create-Shop		

The Error 404 Page will contain No Navbar & Footer. It will have a button which will redirect you to Home

## 2. Home-Page and ErrorPage

Your Homepage will contain a Navbar , Footer and 5 Unique Section which will express your system features & specialities.

- **Navbar**
  - Navbar will have the Logo / Name / LOGO+NAME
  - Navbar will have a menu for navigation
    - When User Not Logged-in
      - Home
      - Login
      - Register
      - Create-Store (**private route.** redirect to Login if user not logged-in )
      - Watch Demo ( when clicked , a youtube video will open in a new window)
    - When User Logged-in
      - Home
      - { Create-Store } ( If user don't have any store or don't work for any store )
      - { Dashboard } ( if user have a store )
      - Watch Demo
      - User-Image & Name
      - Log-Out
- 4 Unique Section

- Create 4 meaningful section with fancy UI design which will express your system specialities

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**Extra section ideas**

*Value Proposition or Unique Selling Points, Features or Benefits, Call to Action (CTA) , Customer Testimonials, Pricing or Plans, Product or Service Showcase, About Us, Company Information, Team or Founders' Profiles, FAQ Section, Blog or Content Highlights, Contact Information, Newsletter Signup, Social Media Links, Trust Symbols or Badges, Client Logos or Partnerships, Video Introduction, Portfolio or Case Studies, Countdown Timer (for limited-time offers), User-generated Content (e.g., reviews, user-submitted photos), Awards and Recognitions, Resources or Downloadable Content, Customer Support Chat or Help Center, Test Drive or Demo Option, Security and Privacy Assurance, Exit-Intent Popup, Mobile App Download Links, Location or Service Area Map, Latest News or Updates and many more.....*

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- **Footer section**
  - Create a reasonable and meaningful footer. (including website logo+name , copyright, some contact information, social media links, address, etc.)

**3. Error Pages**

**Error Page for 404**

- Create a MeaningFull Error Page with a Button that will redirect you to Home.

**Error Page for Forbidden Route**

- Create a meaningful forbidden error page. When the user is already logged in but not Authorized to visit a route you have to navigate the login user to this Page

**4. Login & Registration System**

On the Registration and Login pages, display relevant error messages when necessary.

**Login Page:**

When a user clicks on the login button, they will be redirected to the login page. having the following:

- Email/Password
- Google Sign-in
- A link that will redirect to the registration page

**After successful login check if the user has shop or work for any shop then redirect him to the dashboard . if not then navigate him to the create-shop route.**

**Registration Page:**

The Registration page will have the Email/Password form having the following fields:

- Name
- Email
- Password

- Photo URL/image uploading System

**After a successful registration you have to save the users data to your database. Then Navigate him to create-shop Route**

**Note:** Do not enforce the email verification method and forget & reset password method, as it will inconvenience the examiner. If you want, you can add after receiving the assignment result.

## 5. Create Shop ( Private )

Only Logged in users can access this page. **A user can create only one shop in the system.**

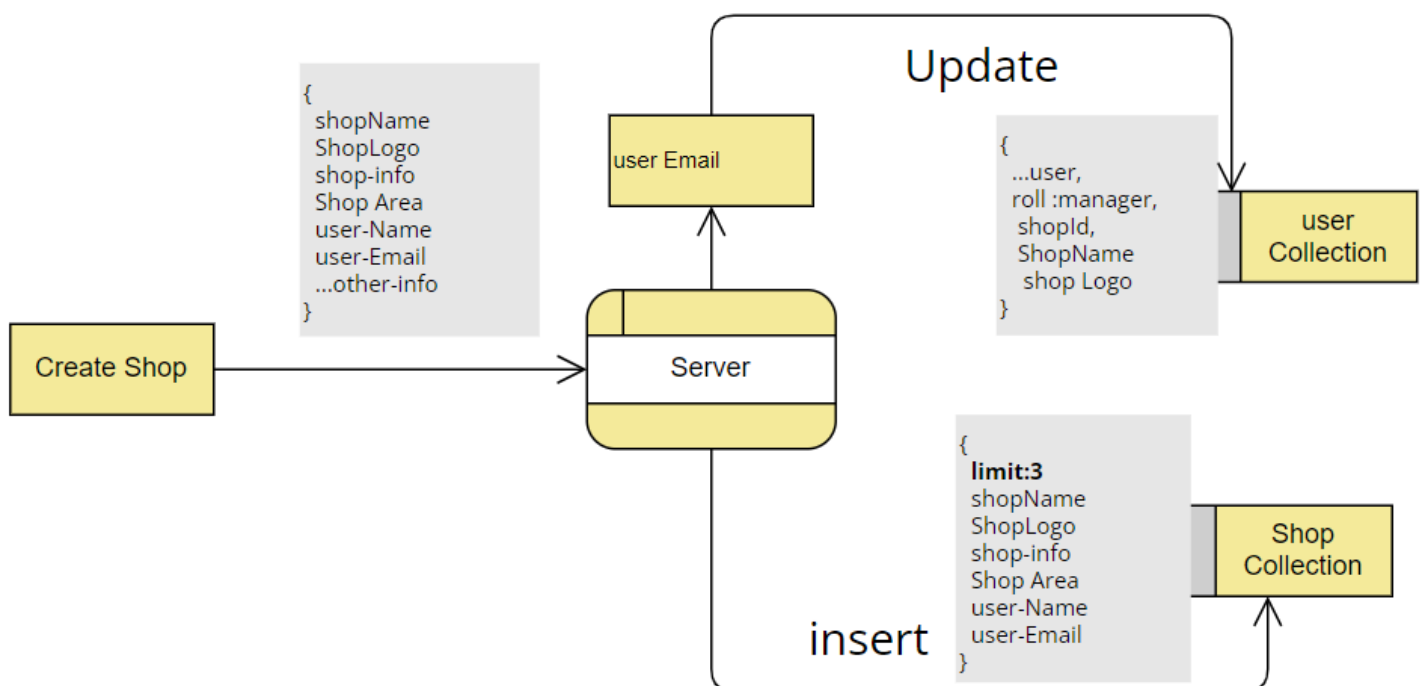
The Create Shop Page have a form with minimum those below data

- Shop Name
- Shop Logo
- Shop Info (description )
- Shop Location
- Shop-Owner Email ( not editable. Email of logged-in user)
- Shop-Owner Name ( not editable. Name of logged-in user)
- Create Shop Button

On clicking on the create-shop button the shop information will be added to the Database as Shop Collection with all the information of the form and some other data that will be added from the server automatically.

1. productLimit : 3

After successful insertion The user's data needs an update. Like a roll and shop Infos will be added . See the following example. You can do all this with own logic also



You don't need to follow the same way. You can do all this with your own logic also. No problem

**Congrates !!** you have successfully completed the Basic Layout Requirements.

Now let’s start the Dashboard.

# Dashboard

## Shop-Manager Routes

### 5. Product Management

In this Route. Shop-managers can add / Manage / delete his or her products.

#### Title Section

Show a total product count of that shop in this title. There will be an Add-Product on the right side . See the Basic Example.

Total 6 Product Added	Add a Product
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IfNo Products empty, then show The Add-Product Button at the center of the page with a relevant message.

#### Product Adding Functionality

On Clicking on Add Product navigate him to a different Route.(you can implement modal also)  
There will be a Form with some required fields.

- Product Name
- Image Uploading System
- Product Quantity
- Product Location
- ProductionCost (How Much cost will happen for making this product
- Profit Margin (How much profit you want to earn from each sale)%
- Discount ( )%
- Product Description
- ....Many More Based on your category. But These are must
- **Add Product Button**

On clicking on Add Product Button It will create the product object with

- All The Data from the form
- Shop-Id ( from the user database )
- SHop-Name( from the user database )
- user-Email ( from the user database / Firebase )
- SellingPrice
  - $SellingPrice = Buying\ Price + (7.5\% \text{ Tax}) + (\text{profit percentage})$
- Product AddedDate (Product Adding Date)
- SaleCount (0)

A Shop-manager can not add Products if he reached his shop product limit. So you have to check the product limit of that shop from the server. If his product count is reached to the limit then show a toast that He can’t add more Product. And navigate Him To The Subscription Route

## Products Section

Shop-managers can view all Products in a tabular format. in the Product Card/table the shop manager will show the following field.

- Product Name
- Product Image
- Product Quantity
- Sale Count
- Update Button
- Delete Button

## Product Updating Functionalities

On Clicking on update a Modal will be open/navigate to different route, where shop-manager can update the Data of these field

- Product Name
- Image Uploading System
- Product Quantity
- Product Location
- Buying Price
- Profit Margin
- discount
- Product Description

## Product Deletion Functionalities

On Clicking on a delete button the Product will be deleted after a confirmation. On Confirm it will be deleted from the database.

## 6. Sales-Collection

In This Route All the Product of this shop will be shown

### Search Section

There will be a search section. Implement search functionality by the products ID .You can do it from frontend / backEnd

### Product Section

The Product section will have a Product table with the following required Data.

- Product Id (\_id)
- Product Name
- Product Image
- Quantity
- Discount
- SellingPrice
- **Add For Check-out Button**

onClicking on **Add For Check-out** Button the data will be added to the check-out cart. There will be a proceed checkout button . on clicking this button shop manager will be navigate to the checkout page

7. Check-Out

In the check-out Page, the information about all the products you added for check out will show here.

There will be a button Get Paid. On Clicking this button you have to do some following action

- Insert The Data with the current Date and Time to the Sales Collection
- Increase the sales count of that product from product collection
- Decrease the Quantity of that product from product collection
- A pdf will be generated with all the information from checkout page
- Clear the Current Cart.

You can use This Package {<https://www.npmjs.com/package/jspdf>} / {<https://www.npmjs.com/package/html2pdf.js/v/0.9.0>} for generating pdf. You can use another packages also.

8. Subscription & Payment

On this Route Shop-manager will show 3 plan card like this

- He has to pay 10 dollars to increase the limit to 200 .
- He has to pay 20 dollars to increase the limit to 450 .
- He Has to pay 50 dollars to increase his limit to 1500.

Show The Following Offers in card view.

On Clicking on a Card Purchase button implement the **STRIPE payment system** to pay the following amount. After successful payment you have to do following action

- increase the Product Limit of that shop from the shop collection .
- Increase the income of user whose role is admin

Demo example

Before Payment user { name:Admin, roll: "admin", photoURL: "imgurl", }	Before Payment user { name:Admin, roll: "admin", photoURL: "imgurl", income: 200 }
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9. Sales Summary

On This Route The Shop-manager can show all the sales generated by the Shop Employees, Sales Chart

Sales Count

This Section will show 3 cards. Where There Will be following information

- Total Sale
- Total Invest
- Total Profit



### Sales History

Show a Table of Sold Products. Show Sales collection by sorting them according to sales date in a descending order. The Sales card will have following information

- Product Name
- Selling date
- Profit ( productionCost - totalSell)

Apply Pagination on the Sale History component.

## System Admin Route

### 10. Manage Shop

System Admin can show all the Shop in a table Format with following Data

- Shop Name
- Shop Logo
- Product Limit
- Shop Description
- Send Notice Button

On Clicking on Send Notice Button A modal with an input field will be open. On Clicking Send button. It will Send a email to the shop-admin email. ( **Bonus** )

### 11. Sale-Summary

#### Sales View section

Here System Admin will show summary information of Sale Summary.

There will be 3 cards. Which will show the following data.

- Total Income ( income of admin)
- Total Product
- Total Sales

#### Users Section

In This Route System Admin will show all the information of registered users with following data You have to implement **pagination** on this section.

- User Name
- User Email
- Shop Name (if have)
- Role (if have)
- If user don't have any shop or role show a “**send Promotional Email**” button


On Clicking on **send Promotional Email** button A modal with an input field will be open. On Clicking Send button. It will Send a email to the shop-admin email. ( **Bonus** )

# Bonus Requirements

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## 1. Email Sending Functionalities with Email JS

On Clicking on Send Notice Button A modal with an input field will be open. On Clicking Send button. It will Send a email to the shop-admin email.

Follow This Documentation [  documentation.pdf ]

## 2. Protect API

- Protect All The API for Shop-Admin with JWT
- Protect All The API for Logged user with JWT
- Protect All The API for System-Admin with JWT

## 3. Dynamic Titling

The website title will be changed according to the route you are clicking. Suppose your website name is PHero. Then

, on the 'All Products' route, your website title will be 'PHero | All Products'

## 4. ResponsiveNess

Make the Homepage of your website mobile, tablet & desktop responsive.

## 5. Implement any Animation Package from that in your Home Page

- Framer-Motion
- Data-AOS
- React-Spring

## Optional (But Highly Recommended):

Implement two tasks from the following optional list:

- Implement react-rechart on sale summary route both for System-Admin and shop-manager.
- Implement a share-Shop Access Functionality
  - their will be share-shop access route on dashboard for Shop-Manager
  - On this the ID of the shop will appear. There will be a copy button.on click this button the ID will be copied.
  - On the create shop page there will be another form with one input field with the placeholder "Want to be a Manager of Existing Shop . Paste The shop-Public Key "
  - Add me to The Manager Button
  - On clicking the button if the data is valid then user data will update like this

<b>Before Creating Shop</b> user { email: <a href="mailto:user@gmail.com">user@gmail.com</a> , Name: user, Photo: user PhotoURL, ...others }	<b>After Creating shop</b> user { email: <a href="mailto:user@gmail.com">user@gmail.com</a> , Name: user, Photo: user PhotoURL, shopName, shopLogo, shopID, Roll: "shopAdmin" }
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**Additional information:**

- 1. You can host images anywhere.
- 2. You can use vanilla CSS or any library.
- 3. Try to host your site on Firebase (Netlify hosting will need some extra configurations)
- 4. Make Sure you deploy server-side and client-side on the first day. If you have
- 5. any issues with hosting or GitHub push, please join the "Github and deploy" related support session.

**Some Guidelines:**

- 1. Do not waste much time on the website idea. Just spend 15-20 minutes deciding, find a sample website, and start working on it.
- 2. Do not waste much time finding the right image. You can always start with a simple idea. Make the website and then add different images.
- 3. Don't look at the overall task list. Just take one task at a time and do it. Once it's done, pick the next task. If you get stuck on a particular task, move on to the next Task.
- 4. Stay calm, think before coding, and work sequentially. You will make it.
- 5. Be strategic about the electricity issue.
- 6. use chat gpt to generate JSON data. You can use chatGPT for Other purposes as Well.

**What to submit:**

- 1. **Assignment Category:** assignment12\_category\_0018
- 2. **Admin email:**
- 3. **Admin password:**
- 4. **Front-end Live Site Link:**
- 5. **Client Side Github Repository Link:**
- 6. **Server Side Github Repository Link:**

