

# **Virtual gym management: Web based application to sell fitness products and equipment**

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## **ABSTRACT**

In this paper our blueprint is to create a smooth web user interface and it can be run smoothly in windows or android devices. The web application will provide new updated calisthenics goods and users can buy using their credit or debit cards without hassle or hurdles in transaction.

Gym Website, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities products rather to concentrate on the record keeping. Thus it will help users to better utilization of resources in websites. The user credentials records saved in database without redundant entries. There will be a good communication between user and admin panel regarding goods quality and quantities and we will make sure to satisfy customers in every aspect.

## **I. INTRODUCTION**

Web applications are getting increasingly popular nowadays. People nowadays are frequently using web interfaces like online shopping and other user interfaces to satisfy their product needs. In these social distancing times people tend to workout in their homes instead of in gym. So considering this hurdles we created a gym website within which users can book all the mandatory gym products they have and workout in their homes.

Our "Virtual gym management" for people who run the corporate proposed to the gym. Before anything to try and do research about the attractive life gyms major challenges to the owners. The memory of a way to create a system of a large, in safety and thoroughly considered these matters we've got other roles for various users looking on their privileges. The administration is required to treat them easily from the gym and every one the mandatory appropriate counting on security meticulous and a database of user.

This user friendly interface projects updated products and goods for the new customers who have just joined our website. We collect user credentials like Name, email, password etc... while they register and save in our database in cryptic form. After login user can see all the new and price efficient products and book them.

All the work is put to satisfy the user needs and therefore the admin panel will ensure the user panel is satisfied with the products displayed. The users may access to the products and examine in dashboard within the website so they will view how products are selected and in admin panel the admin can view how user are login and therefore the admin cannot see the password of user (the password is in encrypted form). The admin can add new products or delete or update the products within the website. The may see the worth of the merchandise and see the outline of the merchandise and buy of their choice and buy them.

To conclude, we sustain that the technological developments currently ongoing during this area of gym website and products for the user, and our early experimentation, allow us to state that the approach is viable, whether or not the margin for improvement is huge; but there's potential for development and update of the web site.

## **II. LITERATURE SURVEY**

[10] Login system is designed to secure the system from hacking and all etc. Admin will have separate username and password log in time or log out time of the user from the system will also be recorded. Present system of gym management is always time wasting system for the management and changes of the error are always there. The main advantage of our website is that customers can purchase items from the comfort of their own homes or workplace and we are focused on only one life style products which honed the team knowledge about calisthenics goods and the output is of displaying the amazing quality goods on the web interface. Shopping is made easier and convenient for the customer through the internet. It is also easy to cancel the transactions and it saves time and efforts for the customers. The customers can get detailed information about the product and customers can compare various gym products in our websites.

[11] Generally, in physical stores, the sales representatives try to influence the buyers to buy the product. While in online shopping, you're free to do as you will. Customers do not have to stand in queues in cash counters to pay for the products that have been purchased by them. They can shop from their home or workplace through our payment gate way which is provided by our website and customers do not have to spend time travelling. Our website is open on 365 x 24 x 7. So, time does not act as a barrier, wherever the vendor and buyers are. The drawbacks of our website though the internet provides a quick and easy way to purchase a product, some people prefer to use this technology only in a limited way. Some people also fear that they might get addicted to online shopping. We collected and studied successfully Virtual gym website strategies, location and their nearby places. And in this we did online works only not a manual work. Starting a gym equipment website can be really rewarding work. After all, you are solving an immediate issue for your customer and you're working on something you truly care about there will always be demand for new features, products and services for your business.

[9] Additionally, there are several different business models and pricing tiers you can implement that will allow you to reach all types of customers. The demand for gym equipment is increasing year over year and the business is known to be relatively recession proof for online stores. By this website, customers are known to be very appreciative and low maintenance. This can help with your stress levels and allow you to focus on growing your business. The cons of virtual gym website are; Over the years, the equipment and the tools to refurbish the project has to be upgraded and it is expensive and the knowledge to use it also comes into play when your renovate the existing project. It's important you prepare for these expenses and try to avoid the dallying the time and cost for making the project.

## **III. OBJECTIVES**

The main objective of this project is to provide the calisthenics goods for the fitness freaks in these quarantine times to help them motivate and be healthy while working in doors. This project will provide the following services as the specific objectives.

- To provide the goods and services in fitness and nutrition department.
- To facilitate the connection between nutrition and health, fitness products in one application to not distract the user more than one application.
- User friendly environment web interface and hurdle free services.
- Open source feedback and communication.
- Suggesting healthy calisthenics goods with thorough research and investigation.

## **IV. MODULES**

### **1) ADMIN/USER REGISTER :**

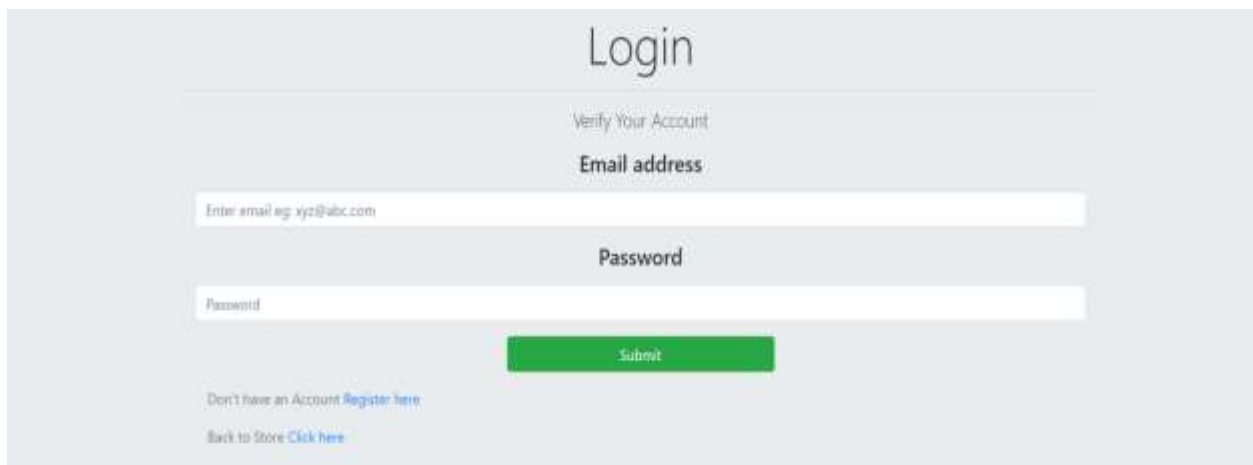


**Fig 1.** Register page for users

A user registration form is a type of sign in form that collects information from site visitors who later want to log in to website. In our Website, All the new users of system (including Admin) will register themselves with all the necessary details. At the time of registration, the respective authenticate user register typically have to input the data before submitting their form on our site: like Name, Username, Email, Password, mobile number. The Password provided by the user is encrypted before saving to the database for security reason. Every user registration is stored in database. Also email address verification are carried out at the time of registration to identify the genuine user for security. In our project instead of keeping unrelated content like including unwanted links (it looks like a spam). So I made it simple registration form with visuals included by using CSS to optimise the registration form.

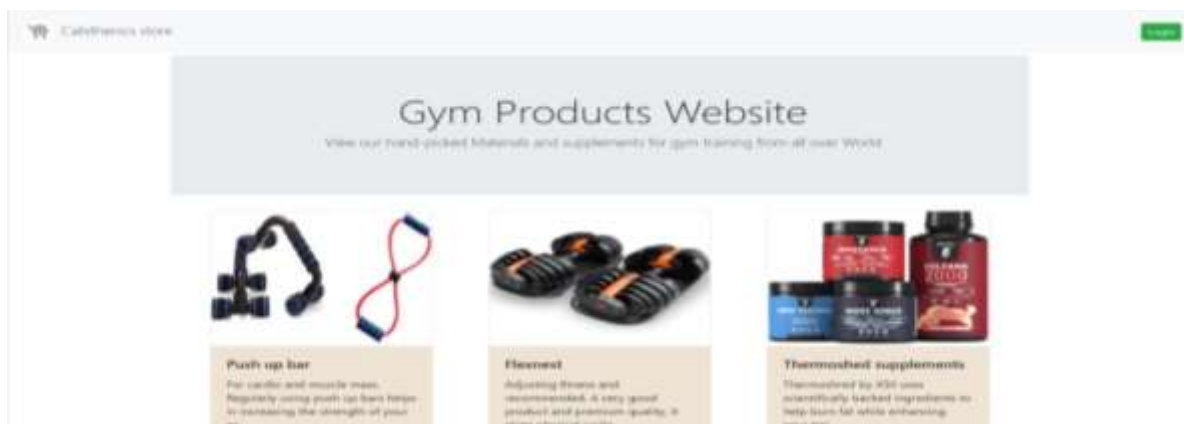
### **2) ADMIN/USER LOGIN**

A login page may be a web content or an entry page to an internet site that needs user identification and authentication, regularly performed by entering a username and password combination. Logins may provide access to a whole site or a part of an internet site. Admin panel is made by the backend mongoose database and he monitors all the products and goods to produce to user panel. It's done by simple html and CSS languages professionally to hold out the login process of both ends. It is the most pivotal forum in the project and it kick-starts the smooth user interaction and gives access to the website.

The image shows a login page with a light blue background. At the top, the word "Login" is centered in a large, dark font. Below it, the text "Verify Your Account" is centered in a smaller font. Underneath, the label "Email address" is centered above a white input field. Inside the input field, the placeholder text "Enter email eg: xyz@abc.com" is visible. Below the email field, the label "Password" is centered above another white input field. Inside this field, the placeholder text "Password" is visible. A green "Submit" button is centered below the password field. At the bottom left, there are two links: "Don't have an Account Register here" and "Back to Store Click here".

**Fig 2.** Login page for users and login

### 3) HOME PAGE



**Fig 3.** Products displayed in Homepage for users

It is the home page of the Virtual Gym website. In this website, we used technologies like HTML, CSS, Bootstrap, Node.js. In this website, which ever products added by the admin will reflected to this page (home page). In this user interface, user can see the products and description of the product like protein products, pushup bars, dumbbells, supplements, etc....

And user can see login button. And he can login and see the displayed products and book the product which ever user want. Being physically and mentally fit is necessary for an individual to live a happy, long life. Typically, exercise is one of the best ways to keep a person healthy. So, we created this website which will be very helpful in this pandemic time.

### 4) USER DASHBOARD

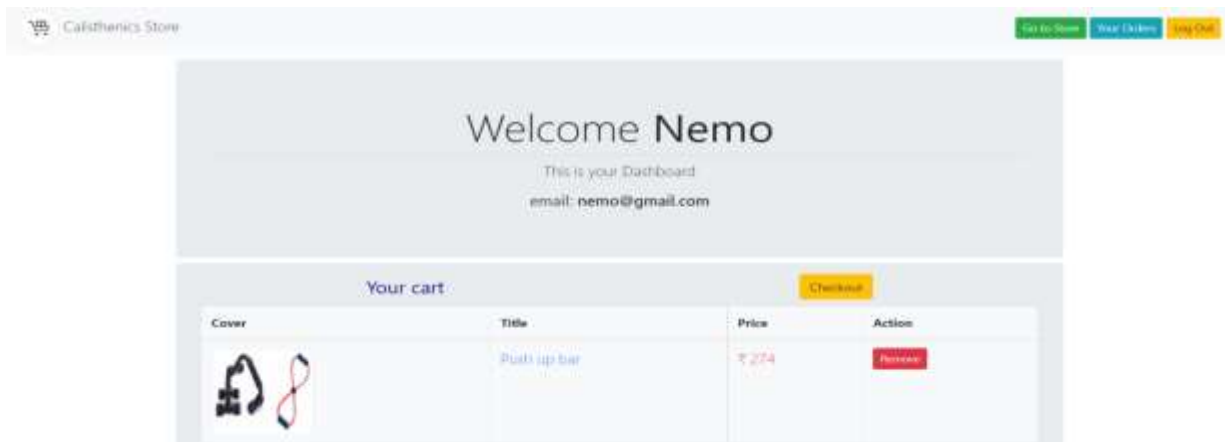


Fig 4. User Dashboard

The purpose of a dashboard is to induce the data we are trying to find at a look. Therefore, data is shown within the style of visual and that we can have quick indicators through colored keys, up or down arrows or highlighted figures. The structure of dashboard and it's pattern visuals are sounds like organic. The implementation of code is HTML, CSS and JavaScript. the most function of a dashboard must always be to assist direct the actions of our team. thanks to this, it should provide the knowledge needed so as for you to grasp what are the following steps to require to boost results. In real time today, digital marketing evolves very quickly so taking advantage of the current moment is crucial. thanks to this, information should be updated regularly and displayed on the dashboard in real time. Because it is easy to know. an honest dashboard clearly shows you variety of products that added to dashboard. So you do not must be an expert to know them. If you would like to appear further into a specific data set, you usually have the choice of employing more specific tools. It makes data easily accessible. If you synchronize your dashboard automatically within the cloud, you'll create different users so your entire team can access the identical information from anywhere. It's even possible to project the dashboard onto a screen in your office in order that the entire team can see what's occurring in real time. It makes reporting more efficient. Having a centralized dashboard will save us lots of your time. rather than collecting data from different sources and making charts on our own, dashboards do all this work for us. you only must invest it slow at the start to line up the metrics and judge the way to present them. From that time on, the dashboard and products are created/added automatically.

## 5) ADMIN DISPLAY

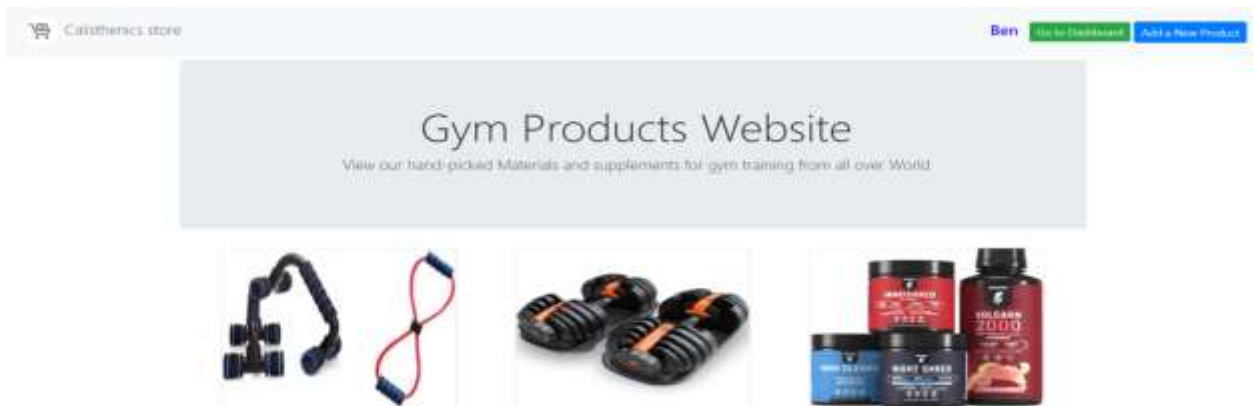


Fig 5. Admin Display

In admin panel we can update or create new products for the customers who are in user panel. Even admin has credentials with which he has to login to control the website delicacy and customer service. He can add or delete the products linked to customer satisfaction.

As you can see there are two buttons in admin panel, one is used to create the product and the dashboard button displays the added or created products by the admin. We used all the tools to make this web interface work smoothly and efficiently. There will be no hassles or connectivity issues be it admin side or user side. We verify and take the feedback provided by the users and we dedicate and allocate our time to prepare goods which satisfy the needs of customers.

When it comes to quality of the products we choose the products which are verified by our team and research on it about the dangers of chemicals (in context of nutrients and supplements). We also maintain a good honesty and professionalism while selecting the products. So we as a startup team are very precise and selective while picking the products and languages to implement the website.

## 6) ADDING A NEW PRODUCT

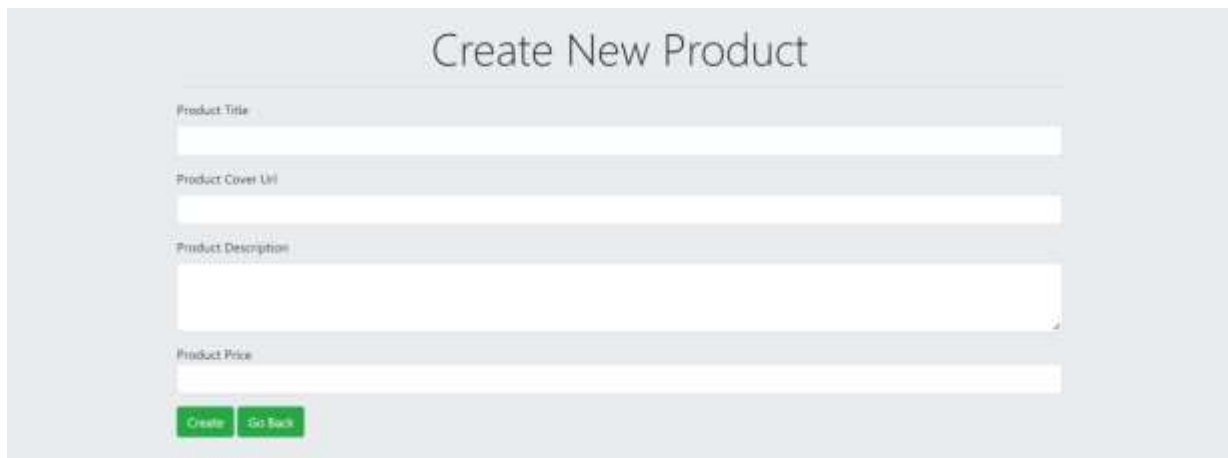
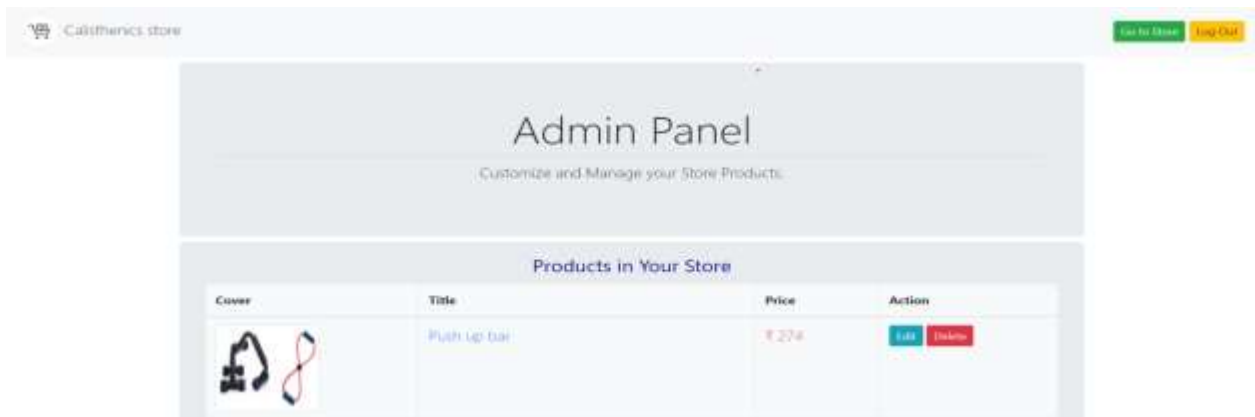


Fig 6. Adding a new Product(Admin panel)

Creating Or Deleting Or Updating of gym products in the website. This is in admin panel, the admin can create or delete or update the product and the admin can give the title of the product and they can add image and can give product description and also admin will mention about the product price which can be visible when the user or Customer login through the website and they easily understand the details of the products. The developer has coded in a simple language that is Html and CSS for this panel. This is created or developed in such a way that both the admin as well as the user can easily understandable and go through further process in the website. This panel specially meant for admin or owner of the website.

## 7) ADMIN PANEL

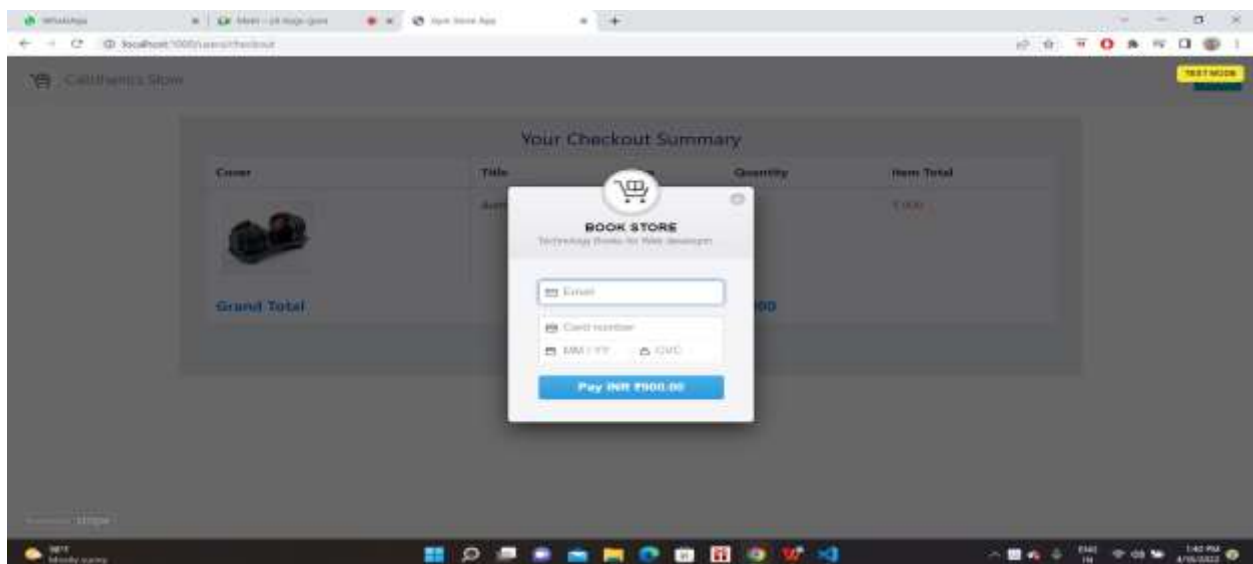


**Fig 7. Admin Panel**

In this Admin panel admin can customize and manage the store products by modifying or removing the products. This will help the admin to keep track of the products and update it comparing the new goods. The offer is supplemented with seasonal products and the typical process of ordering a new product is based on an analysis of shortages in the warehouse. The offer is tailored to a wide audience, because everyone can come to the store and buy the goods they are interested in. Customers remain rather anonymous, just random people passing through the store during opening hours. Promotions are usually organized for poorly rotating goods or those whose expiration date is just about to end - it is rather a normal thing that sometimes you order too much of something. Moreover customers usually choose this store because they have it on their way home, sometimes those regulars who have come for many years are rewarded by the owner with a smile or a moment of conversation.

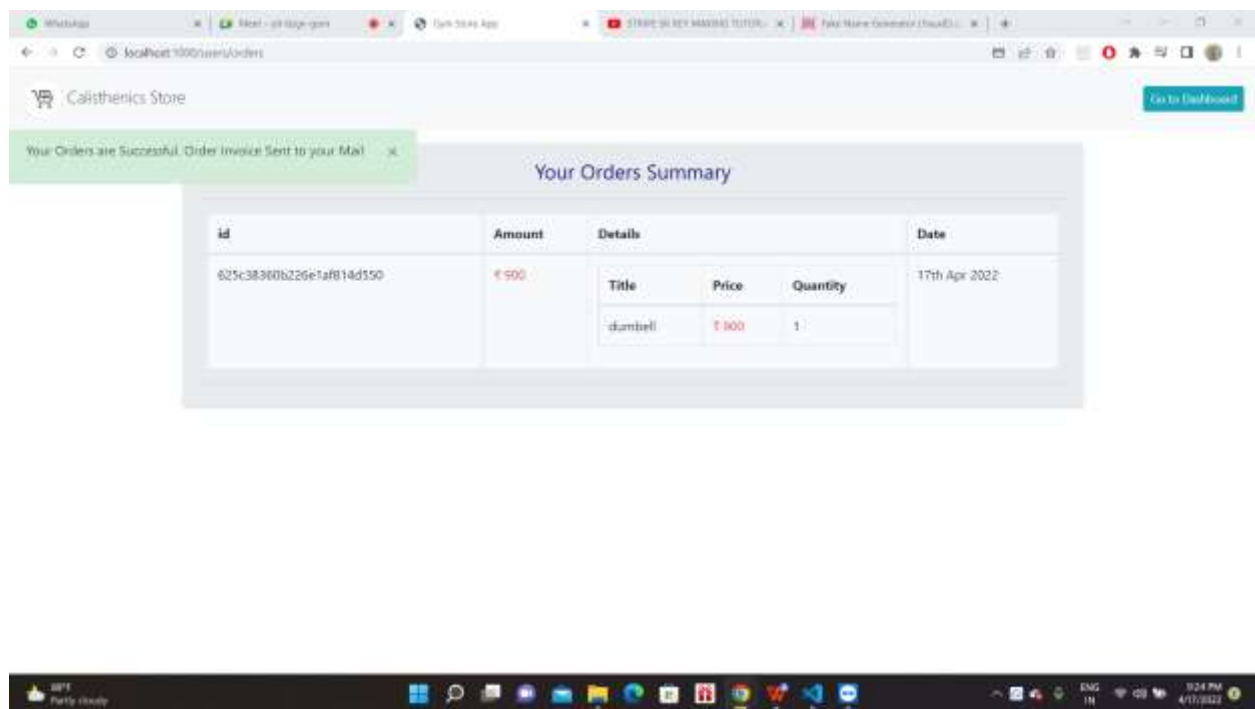
Admin Panel is basically the core of most applications. Without it the content could not be in any way created. From this particular part the whole app may be managed. Of course it is also designed to help user-related functions, from providing insight into user behavior to tracking transactions. The admin panel is not accessible for regular users of the app. Only being an admin or having permissions you can use it freely.

## 8) PAYMENT GATEWAY



**Fig :8** User Payment gateway

A payment gateway could also be a portal that connects a bank account to the relevant payment processor. Once a customer is ready to proceed to checkout, the net site will direct them to a payment gateway to enter card information and email. The reason to remain email in payment because once the transaction is finished we are visiting send an email about the bill to the customer so it the customer can verify the order details. In this payment gateway the customer has to enter a sound card number, expiry date of the cardboard and ccv number of the cardboard, then only our website will proceed further. If the customer has entered the tiny print correctly then the customer will show another page showing in Fig:9. This website will work on test mode also, we have given an option called test mode so as that they'll test the payment method is functioning or not. We have developed during a such way that the payment process is secure, fast and safe way for the customer which they'll verify their details in their email also.



**Fig:9** User Order Summary

In this page the customer firstly gets a popup showing that “your order is successful and the Order in voice send to your mail”. The page shows about the order details of which the customer had bought items. Everything is mentioned in this page amount, tile, price, quantity, date, total bill and also our website produces a unique id for the customer so that they can have a reference about order. From this page the customer can navigate to dashboard so that the customer can view the products again in the same manner.

## V. CONCLUSION

Nowadays user friendly interface websites are common and that they work sumptuously on windows. But lot of the developers forget that users increasingly use the websites on mobile phones and android devices. So we used all the required languages to execute our web interface in any software system with no issues and hurdle free environment. Digitally the free market is growing continuously and lots of companies are missing out by not doing business in



online platforms with their websites. So this web application our start to interact with people and know their interest and monitor their demand.

The experimentation applied within this project, towards the architecture of such a system, identified that its implementation should take under consideration some requirements stemming from existing systems integration, particularly within the synchronization of the movements and their impact on the network for other users, but also regarding the necessity to own a transparent identification of the gym products and custom controls for him/her.

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