

## **e-Shopping using Multilingual Responsive Portal**

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**Abstract**—*e-Shopping using multilingual responsive portal system is customized and user-friendly system. Now a day's shopping online has become a trend as people are not having enough time for shopping. This system sells three categories of items. They are fashion, electronics & home decor. These categories are further subdivided. Electronics consists of television & mobiles as sub items. . Fashion further consists of Men & Women. Men again consist of sub items such as Clothing & Footwear. Clothing is subdivided into Shirt & Pants. Footwear is subdivided into Casual & Formal. Women also consist of Clothing & Footwear. Clothing is subdivided into Dresses, Tops & Pants. Footwear is subdivided into Flats & Heels.*

*This system is responsive i.e you can view it on mobile too. This system is capable of managing login forms, customer registration form etc.*

*e-Shopping using multilingual responsive portal provides a single secure database structure that organizes stores and retrieves real-time information. This project takes care of all the aspects related to customer registration to billing to shipping of the items that are bought by the customer. Payment of the items is done on delivery of the items to the customer.*

**Keywords**-*Fashion, Electronics, Home Decor*

### **I. INTRODUCTION**

Now a days shopping online has become a trend as people are not having enough time to go out for shopping. Buying new things is fun. Purchases are just one click away. Shopping wasn't so easy before. Online shopping is a very popular kind of e-business where a customer can shop over the internet & have all the goods delivered to their door steps.

**e-Shopping using multilingual responsive portal** system is customized and user-friendly system. People can buy various products from this systems and pay only when the product is delivered to the customer. Customers can sit at one place and can check out latest trends of fashion, gadgets etc that has come in the market. And also they can compare the prices of the product from various sites and buy the products at best discounted prices. Another use of online shopping is people can shop 24\*7 so there is no fear of the store getting closed at the particular time.

This system consists of three categories of the items that it sells, and they are Electronics, Fashion & Home décor. Each of these items has sub items. Like Electronics has Television & Mobiles. Fashion further consists of Men & Women. Men again consist of sub items such as Clothing &

Footwear. Clothing is subdivided into Shirt & Pants. Footwear is subdivided into Casual & Formal. Women also consist of Clothing & Footwear. Clothing is subdivided into Dresses, Tops & Pants. Footwear is subdivided into Flats & Heels. Home décor consists of Curtains & Bed sheets.

A customer needs to register himself first before making any purchase. Once a customer is registered, he can enjoy shopping. At a time a customer can add any number of items to the cart as well to the wishlist. A customer can quickly view the items from all the dimensions; can view the items in list as well as in grid. There is an option called as sorting, customer can sort the items depending on the popularity, discount, lowest to highest, highest to lowest. A customer can even search an item by mentioning the name of the item in the search bar. The result of the search will be displayed. Once a customer clicks on the particular item, a full view of the item along with the details of the item will be displayed. Once a customer is done with shopping he can view the products that he bought and update the cart. After all the purchases are made the customer can check the total amount that he needs to pay. Mode of payment that this system follows is Cash on Delivery (COD). A customer can also write reviews & post comments on the items.

## II. LITERATURE SURVEY

The feature which enhances this system is audio player. This audio player which is a plugin in wordpress called Gspeech plays in the background as soon as the customer logs in. This plugin welcomes the customer by taking his name. Whenever you can select a particular text which is in English a speaker appears besides it. When you click on it the speaker speaks out that text in English.

Another feature which is included is sending an SMS. SMS will be send immediately to the customer as soon as an  
*A. Existing System*

- In an existing system dealing with the products, purchasing of the products, dealing with the transaction was done manually which was difficult to do and also time consuming.
- Reports such as billing were done manually which was time consuming & tedious work.
- To buy any product users had to either ask someone about the quality, price , brand etc of the product or they had to go personally to that particular shop and ask for the information which was time consuming.
- If a customer buys huge number of products then calculating the bill of the product required lot of time and there were possibilities of calculating the wrong total price. Maintaining records was a tedious job.
- The shop from where the users bought their products may not be open 24\*7 so the users had to visit the shop on particular time only.

### *Proposed System*

- Proposed system saves lots of time user from visiting the vendors shop to buy any product.
- Proposed system saves lot of time of the user.
- Customers remain tension free after purchasing the products because their products will be delivered to them on their door steps.
- Customers will be given reports & alters regarding the process of their purchase from time to time.
- There will be images of the product. If you click o the product it will directly take you to the page where you will get entire detail of your product like price,

order is placed for the items. The SMS that will be send will consist of a message thanking you for shopping with us along with the order number & status of the purchase (eg processing).

This system is responsive in nature, i.e it can be viewed on the screen of mobile. Responsive system provides an optimal viewing experience. Its easy to read and navigation with a minimum of resizing and scrolling. Responsive systems ensure that the text, images etc re-adjust themselves based on the mobile device<sup>[1]</sup>.

discount, color, dimensions etc. from there you can directly buy he product.

- Reports will be generated automatically thus there is no need of manually maintaining it .
- Information regarding the customers as well as the products can be maintained and this information can also be retrieved easily without much effort.
- Customers can shop online 24\*7 from anywhere.

### *B. Feasibility Study*

Feasibility study means evaluation & analysis of the proposed project to determine if it is technically feasible, whether its feasible within the estimated cost, whether its profitable etc<sup>[2]</sup>.

#### *Technical feasibility*

Technical feasibility tells us whether the project can be done with the help of existing technology, available personnel, existing equipments etc. It provides an interface for user (customer) registration; the customer has to fill all his details. All this details will be send to the admin. Admin will now have all the necessary information of the customer, this information will help in delivering the products to customers.

Its up to the customer to buy the product or not. If he clicks on the buy button then he is informing the admin that he is interested to buy that product. Further transaction takes place between admin & customer.

#### *Financial Feasibility*

Since not much materialis required your system is much more affordable. Only the thing that is needed is the internet connection & your own system for you to publish all the items to the world. You need to have a domain name in order to have you system.

#### *Ethical Feasibility*

Our new system is affordable and ethically acceptable by everyone. As we all know that there

are many systems that have come recently. But the feature that our system provides is the mobile phone. User can access our system through phone as well through desktop. Online shopping helps you to buy cheaper items but those items are durable and are of good standards. You can also read the reviews as well as refer the top rated products before deciding which product to buy.

#### *Economical Feasibility*

It specifies cost benefits & analysis. The system development costs are one time investment which will not recur once the project is complete. In order to calculate development cost we evaluate few cost categories. They are:-

- Supply & equipment cost
- Computer usage
- Cost of computer equipments & software
- Personal cost

#### *C. Tools & Technologies Used*

##### *Xampp*

**Xampp** stands for (X) **Cross platform**, (A) **Apache**, (M) **MYSQL**, (P) **PHP**, (P) **Perl**. Xampp is a free open source cross platform web serversolution stackpackage<sup>[3]</sup>. It mainly consists of the Apache HTTP Server, MySQL data+base, and interpreters for scripts written in the PHP and Perl programming languages<sup>[3]</sup>. The developer of Xampp had developed it thinking it as only web development tool, so that the programmers & web developer can work on their own computers without access to the internet<sup>[3]</sup>. Xampp server is also used to serve pages on world wide web<sup>[3]</sup>. XAMPP also provides support for creating and manipulating databases in MySQL and SQLite among others<sup>[3]</sup>. The components of xamppare<sup>[3]</sup>:-

- 1) Apache: Apache is the web server application that processes and delivers web content to a computer<sup>[3]</sup>.
- 2) MySQL: Which is open source, is the world's most popular database management system<sup>[3]</sup>
- 3) PHP: It is a server-side scripting. It is open source, works with MySQL, making it a popular choice for web developers<sup>[3]</sup>.
- 4) Perl: is a high-level, dynamic programming language used in network programming, system admin, etc<sup>[3]</sup>.

##### *MySQL*

**MySQL** is a relational database management system(RDBMS) that runs as a server providing multi-user access to a number of databases<sup>[4]</sup>. The SQL phrase stands for Structured Query Language<sup>[4]</sup>. Free-software projects that require a full-featured database management system often use MySQL<sup>[4]</sup>. MySQL is a popular choice of database for use in web applications & is a central component of LAMP web application software stack- LAMP is acronym for "Linux, Apache, MySQL, PHP"<sup>[4]</sup>. Its popularity is closely tied to the popularity of PHP<sup>[4]</sup>

They have a common code base & following some of the features:-

- 1) Triggers
- 2) Updatable views
- 3) True varchar support

##### *PHP*

**PHP** is a general purpose scripting language that is suited for web development<sup>[5]</sup>. Its syntax is based on Perl, Java & C<sup>[5]</sup>. PHP is very good when simply mixed with HTML code, or it can be used in combination with various templating engines and web frameworks<sup>[5]</sup>. PHP code is processed by PHP interpreter<sup>[5]</sup>. PHP has also evolved to include a command-line interface (CLI) capability and can be used in standalone graphical applications<sup>[5]</sup>.

##### *Wordpress*

**Wordpress** is a content management system & free & open source blogging tool based on PHP & MySQL<sup>[6]</sup>. Features a plugin architecture and a template system<sup>[6]</sup>. It was first released on May 27, 2003, by its founders, Matt Mullenweg and Mike Little<sup>[6]</sup>. WordPress has a web template system using a template processor<sup>[6]</sup>. WordPress users may install and switch between themes<sup>[6]</sup>. Themes allow users to change the look and functionality of a WordPress system<sup>[6]</sup>. WordPress has over 37,000 plugins available<sup>[6]</sup>. WordPress's primary support system is WordPress.org<sup>[6]</sup>

### **III. SOFTWARE REQUIREMENT SPECIFICATION**

A software requirements specification (SRS), is description of the behavior of the system that is to be developed & which includes a set of uses cases that describes the interactions that a user will have with the system. In addition to this it also contains non functional requirements<sup>[7]</sup>.

#### *A. Users*

There are two types of user that interact with the system Admin & Customer.

#### *Admin*

- Admin is responsible for maintaining the system.
- He keeps track of all the customer details who have registered themselves with this system.
- Admin is responsible to decide on which items discount is to be given and how much.
- Admin's other responsibility are sending SMS to the customers as soon as the customer places an order for an item.
- Admin's is supposed to see that the right items are delivered to the right customers.
- Admin is also responsible for tracking the order of the customer specially when the customer updates the cart by removing the item or by adding the items to the cart.
- Another responsibility of the admin is that if the customer forgets the password then he can just click on forget password; the admin will send him the mail saying to reset the password. Now the customer can login and enjoy shopping with the help of the new password and same userid.

#### *Customer*

- Customer needs to register himself if he wants to do shopping from this system.
- If the customer is already registered then he can directly login and enjoy shopping.
- There is option for him called forget password which will help him to reset a new password.
- A customer can put many items to the cart at the time.
- When the customer clicks on the image , the image will get open and all the details of the item will be displayed. Also he can view the item closely.
- A customer can also view the cart where he can see all the items that have been added to the cart along with the subtotal. A customer can also update his

cart by adding and removing the items from the cart.

- A customer receives a SMS as soon as order is placed.
- He can also highlight the text which is in English , a speaker will appear in front of the text where you have to click and the speaker will read that text.
- A customer can also view the system from mobile.

#### *B. Functional Requirements*

The functional requirements are as follows:-

##### *1) Customer Registration*

The customer has to register himself if wants to do shopping. While registering the customer has to give his details such as Name , Address, Phone number, City, Pin number, State, Email Id etc. This details will be very useful while delivering the products to him.

##### *2) Login*

A customer who has registered he can directly login in to this site by entering correct username & password. He has option called forgot password where he can click & reset his new password by entering a correct username. There is an option called remember me while entering username & password.

##### *3) Add to Cart*

A customer once logged in to this site can view various categories of the products available. He can add many items to the cart at a time. There is also an option for him to update the cart from where he can add or remove the products.

##### *4) Add to wishlist*

The customer can add the products to wishlist. When the customer chooses a particular category all the products of that category will be displayed there. You can just take the cursor on the image & you will see there the three options just below the image. They are wishlist, buy, quickview.

##### *5) Search*

A customer can also search a particular item by typing its name in the search bar. The images n their details will be displayed once you click on that image. Example if you search heels all the shoes that are heels will be displayed.

6) *Audio*

A customer can hear to an audio welcoming the customer. A customer can listen to a particular content which is in English. He just have to select the text a speaker will appear in front of that , you have to click on that speaker & then it will speak out the selected text.

7) *SMS*

A customer has to provide a phone number while registering for this site. So that once an order is placed for the product he receives a SMS thanking you for shopping with us along with your order number and status as processing.

8) *Responsive*

This system is responsive i.e this system can be accessed by customer through mobile too. Advantage of having responsive system is that anyone can access this system from anywhere. The layout of the system resizes itself according to the screen size.

*C. Non-Functional Requirements*

These are the requirements that are non functional in nature. These are the constraints that the system must work within.

1) *User Friendly*

The system is very interactive in nature.

2) *Security*

Only the authorized user can access the system with the help of correct username & password. Unauthorized access to the system and its data is not allowed. Ensure the integrity of the system from accidental or malicious damage.

3) *Safety*

The use of this site will not cause any human trouble

4) *Performance*

Responsive requirement:- It is concerned with the speed of the response the system gives. Throughput requirements:-how much the system can accomplish within a specified amount of time.

5) *Reliability*

It is the ability of a system to perform its required functions under stated conditions for a specific period of time.

Availability:- system should be available 24\* 7.

Failure Rate:- how often the system fails to deliver the services to the customers.

6) *Portability*

The ease with which the system can be transferred from one system to the other.

7) *Flexibility*

Refers to how well the site accepts the changes. The system should be able to accept the changes & maintain it properly.

**IV. SYSTEM DESIGN**

*I. System Perspective*

e-Shopping using multilingual responsive portal system is designed so that people can sit at home and enjoy shopping. As now a days people are busy they hardly get time to pamper their selves with new gadgets, new fashionable clothes, home decor items etc. So sitting at home and shopping is easier than going out to the number of shops and asking information about the particular product. e-Shopping helps us to shop online 24 \* 7.

A customer will have to register himself with our system by giving us his details. This details will be useful to deliver the products to him. The customer can buy products such as mobiles, television, men's footwear, shirts, pants , women's dresses, pants, top , bed sheets, curtains from this system. He can even quickly view the product from all the dimensions, as well as he can add product to the cart, or to the wishlist.

Once he clicks on the product the entire details of the product along with the discounted rate (if its there ) will be displayed. From there he can add the products to the cart. He can even update his cart by removing the products from it. He can even search

for the particular product in search bar. Payment of the product is cash on delivery of the product.

Another feature included is that a customer receives an SMS thanking him for shopping with us as well as status of his order like its processing. Another feature is enable audio. The customer will be welcomed by playing an audio. He can highlight a text which is in English a speaker will appear in front of it, you just have to click on it, speaker will speak out the selected text.

**II. Context Diagram**

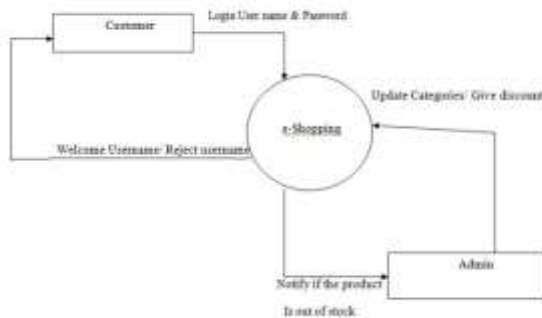


Fig: 4.2 .1 context diagram when customer logs in

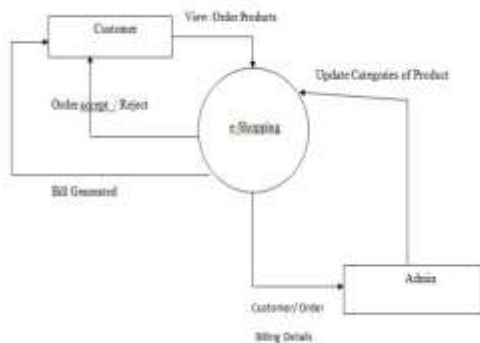


Fig: 4.2 .2 context diagram when customer orders a product

**V. DETAILED DESIGN**

Detailed design is a process in which the requirements are translated into software. Internal logic of each module is decided in during detailed design. Our project follows Agile Method. Agile methods have been successful for some types of system development.

**Agile Software Development Model**

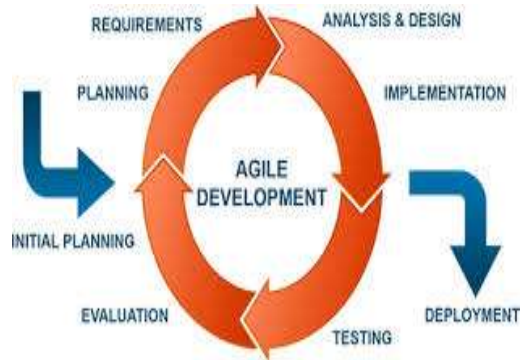


Fig 5 Agile Software Development Model<sup>[8]</sup>

**A. Use Case Diagrams**

*Use case for Admin*

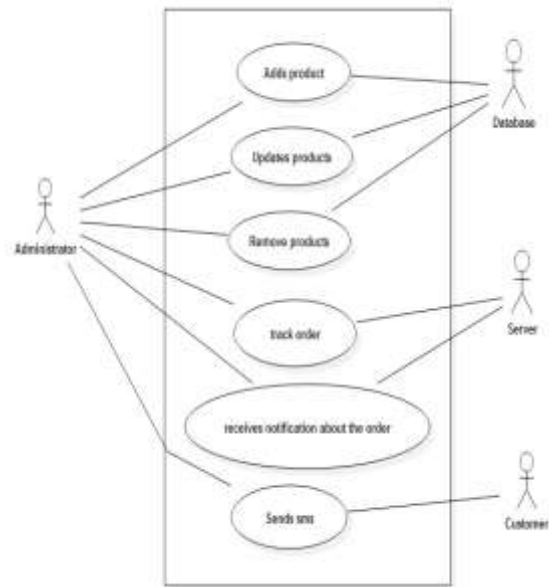


Fig: 5.1.1 Use case for admin

*Use case for Customer Registration*

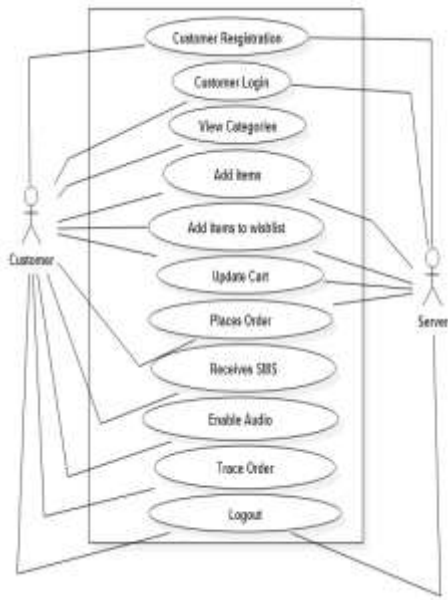


Fig: 5.1.2 Use case for customer registration

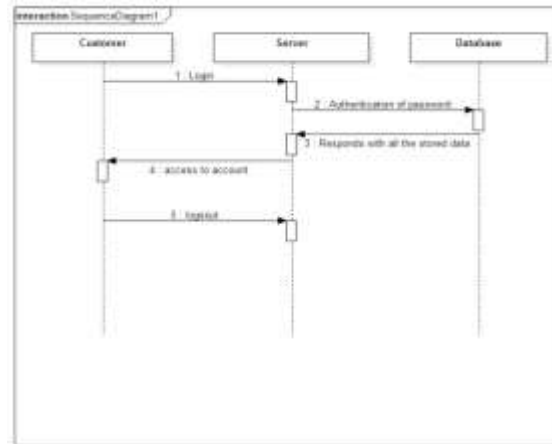


Fig: 5.2.2 Sequence diagram for Customer Login

**B. Sequence Diagram**

Sequence diagram for Admin Login

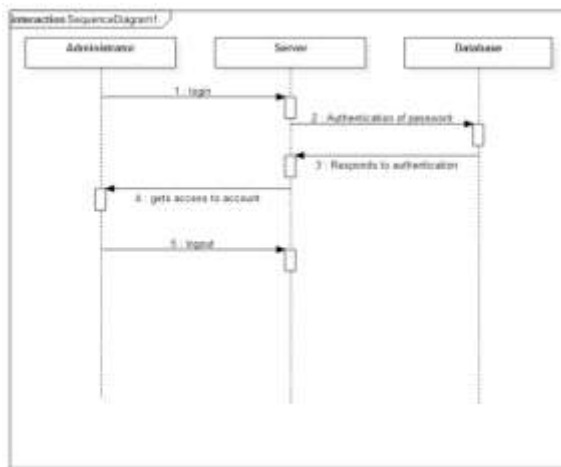


Fig 5.2.1 Sequence diagram for Admin Login

Sequence diagram for Customer Login

**C. DFD**

DFD for Customer who are already registered

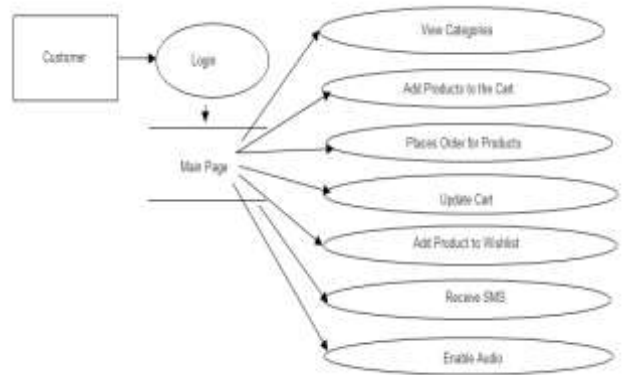


Fig 5.5.6 DFD for Customer who are already registered

DFD for Customer Registration

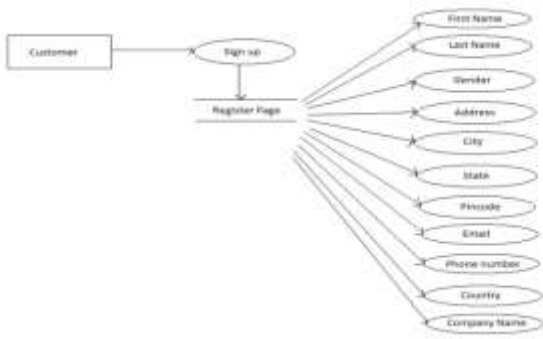


Fig 5.5.7 DFD for Customer Registration

*ER Diagram of e-shopping using multilingual responsive portal*

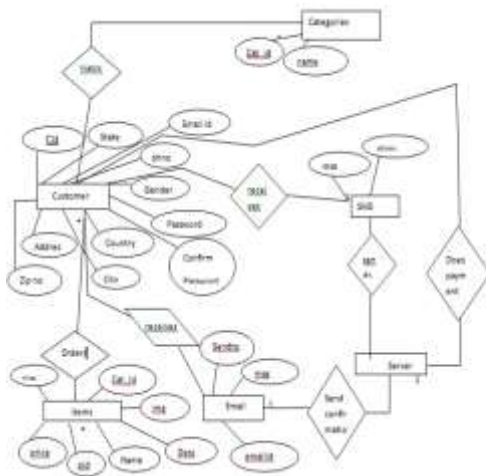


Fig 5.5.8 ER Diagram of e-shopping using multilingual responsive portal

**VI. CONCLUSION**

**e-Shopping using multilingual responsive portal** helps many people who are busy in their day to day life to shop from home. e-Shopping system can be accessed 24\*7. So there is no rush for the customers to reach the site on particular time. This site can be accessed from anywhere because this site is responsive i.e it can be accessed through mobile phone also. The customer who is registered can only buy the products. Plus they can also enjoy the huge discounts available on this site for various

products. This site provides latest fashion trends as well as latest gadgets for the customers. This site also allows the customers to hear to the audio. They just have to select the content which is in English. A speaker will automatically appear in front of that text. Customer will have to just click on that speaker, & then automatically it will read the text.

Another advantage of this site is the payment mode is cash on delivery. And when the customer places an order for multiple products or for an single product he receives a SMS soon regarding the status of this order.

In all this system is user friendly and easily accessible by many people from any device from anywhere & enjoy shopping with us.

**VII. FUTURE ENHANCEMENT**

Apart from our implementation of the project ,e-Shopping using multilingual responsive portal can be enhanced with more features. Keeping the future requirements this site can be enhanced easily.

This site can be enhanced in future by including the following things:-

- Payment mode can be done Online
- We can include many more items of various brands
- Audio enhancement eg, if a customer says computer then the site should be able to display the computers of various brands , prices, sizes etc.

**VIII. REFERENCES**

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