Software Requirements

Specification

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Topic   : Online Home Appliances Shop

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1. Abstract

The online home appliances Web application is intended to provide complete solutions for vendors as well as customers through a single gateway using the internet as medium. The purpose of this document is to build an online system to manage and marketing the home appliances, to reach customers easily and to purchase home appliances customers to browse through the browser and purchase them online without having to visit the shop physically.

2. Proposed System

The online home appliances site is a web-based system in order to overcome the problem of unknown appliances wide through the people and the physical store goods marketing. By posting the goods in the website it was a double benefit for the sellers they can do double profit. People also can know their order details and track their order and get their invoice. Implemented this proposed system can reduce the marketing of the products and get their consistent profit.

3. Modules

3.1 Home Page

The application starts with the Homepages and this page gives the users to get the overview of the web page. At top of the homepage, you can see the login/sign-up tab. If you not have an account means signup and login to the page or else login to the page. Then if you want to view the products you can, just click the category are shown on the top on the homepage and it will take them to a page that contains different collections are shown in the page. Name, price, specifications will be provided for each type of appliances. At the time, the user will have an option to adding the product to the cart or directly buying the product.

3.2 Login/sign-up

If the customer has an account on the application, then enter a user name and password then it will be verified by the admin/system and then only user can buy the product or else there is no account in the application means then click the sign-up button which given in login page to register into the application by using name, email id, password. Then admin would validate the data and if the data provided by the user is valid means, then it will be stored in the database and the user account has been created.

3.3 Add to Cart

This add to cart option will be available under the product image. If the user clicks on the add to cart, the product will be added to the cart page. This will be a space for the customer where user can store the items that user wishes to buy. The user can also remove items from cart when the user doesn't want to buy the product. Once the user decides to buy the items it carts, the user is directed to the payment page for making payment.

3.4 Payment

Now the user get into the payment option with various modes of payments are there to pay for the product (online payment through credit/debit cards, through net or mobile banking or cash on delivery or UPI) out of these, user can choose one. The choosen mode of transaction is carried therefore by proper verification and authentication of bank details.

3.5 Support

The user can contact with the customer care via phone call or via messages through the mail. User can ask for an any support of the product or delivery or any payment issues or any feedback on the particular aspects.

4. Functional Requirements

4.1 Manage cart

User can view the products, which product user wants then select the product and User can add the product into cart, which user want to buy. If the user clicks on the add to cart, the product will be added to the cart page. This process is before placing the order confirmation. In this stage user can change or remove the product which you can want. Once the user decides to buy the items it carts, then go to the next step for the payment page for making payment.

4.2 Accounts Management

- **Regulating Payments:** Keep track of all the payment transactions made by the customers and update the payment information.
- **Consulting with Banks:** Responsible for contacting the banks for the validation of the a/c number provided by the customer while purchasing and make the transaction from the given a/c.
- **Consulting with Admin:** Consult with the Admin about the payment details of the customers for the updating of the database.
- After these stages only user can make the online payment can be initiated.

4.3 Customer Care

Getting Feedback from the Customers are responsible for receiving complaints, queries and feedback from the customers. so that providing feasible solutions to the customers on their complaints and queries. Then the customers can give feedback for the product or service which they have purchased. Also, facility rating of individual products by relevant customers.

5. Non-Functional Requirements

5.1 Performance Requirements

In order to maintain an acceptable speed at maximum number of uploads allowed from a particular customer as any number of users can access to the system at any time. Better component design to get better performance at peak time. Also, the connections to the servers will be based on the user like his location and server will be working 24X7 times.

5.2 Security Requirements

The system will use secured database. Normal users can just read information but they cannot edit or modify anything except their personal and some other information. System will have different types of users and every user has access constraints. Secure access of confidential data (user's details), and also have a secure access to consumer's confidential data.

5.3 Technical Issues

This system will work on client-server architecture. It will require an internet server and which will be able to run PHP application. The system should support some commonly used browser such as IE, Mozilla Firefox, chrome etc.

5.4 Maintainability

This web application admin wants to maintain a day by day. If there is a day by day the user's level can get increase and decrease so we can maintain the database every day. And vendors will have to change the price so as the admin have to maintain the price update by every day. The admin should maintain correct according to display.

Various other Non-Functional Requirements are:

- Security
- Reliability
- Maintainability
- Portability
- Extensibility
- Reusability
- Compatibility
- Resource Utilization.

6. Use Case Diagram

A use case diagram is used to represent the dynamic behavior of a system. It encapsulates the system's functionality by incorporating use cases, actors, and their relationships. It models the tasks, services, and functions required by a system/subsystem of an application.
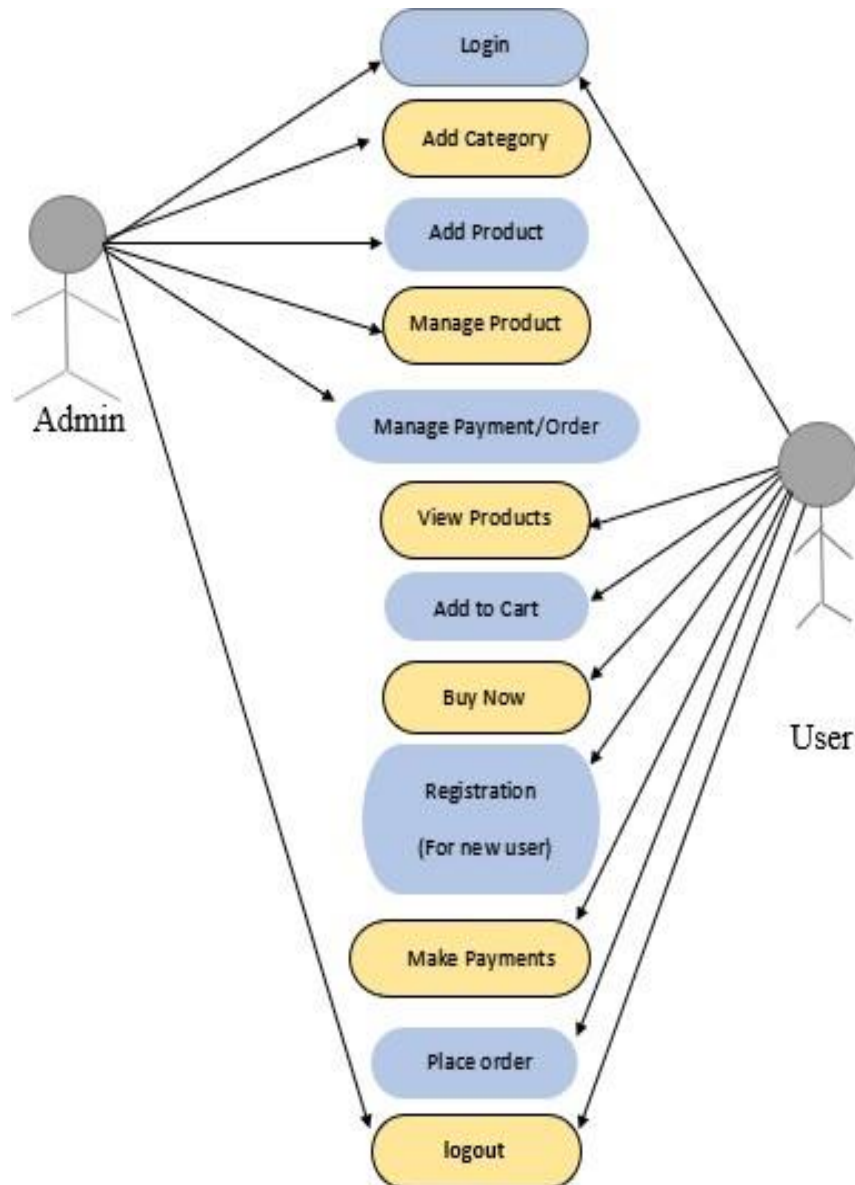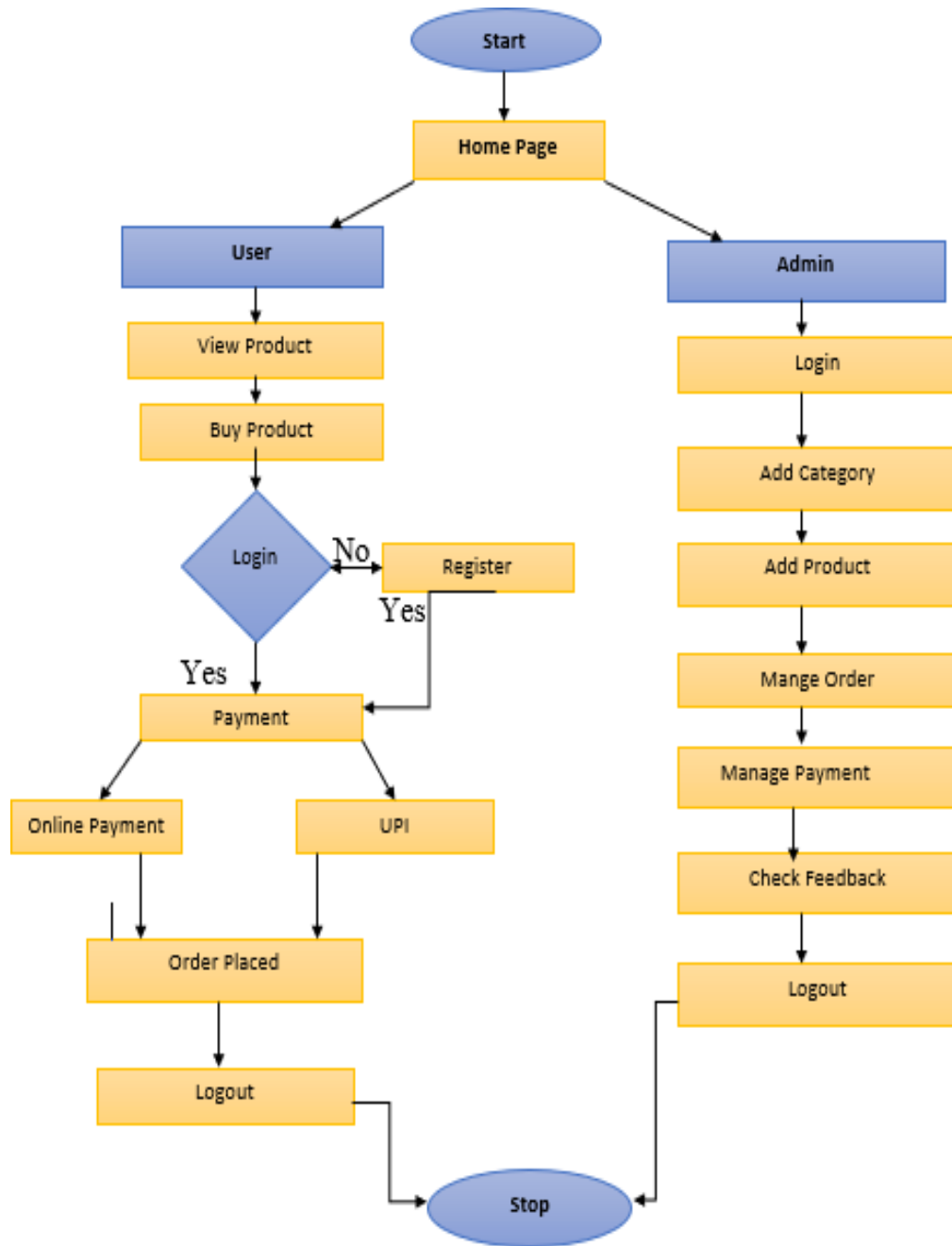
7.Sequence Diagram

A sequence diagram shows the sequence of messages passed between objects. Sequence diagrams can also show the control structures between objects.
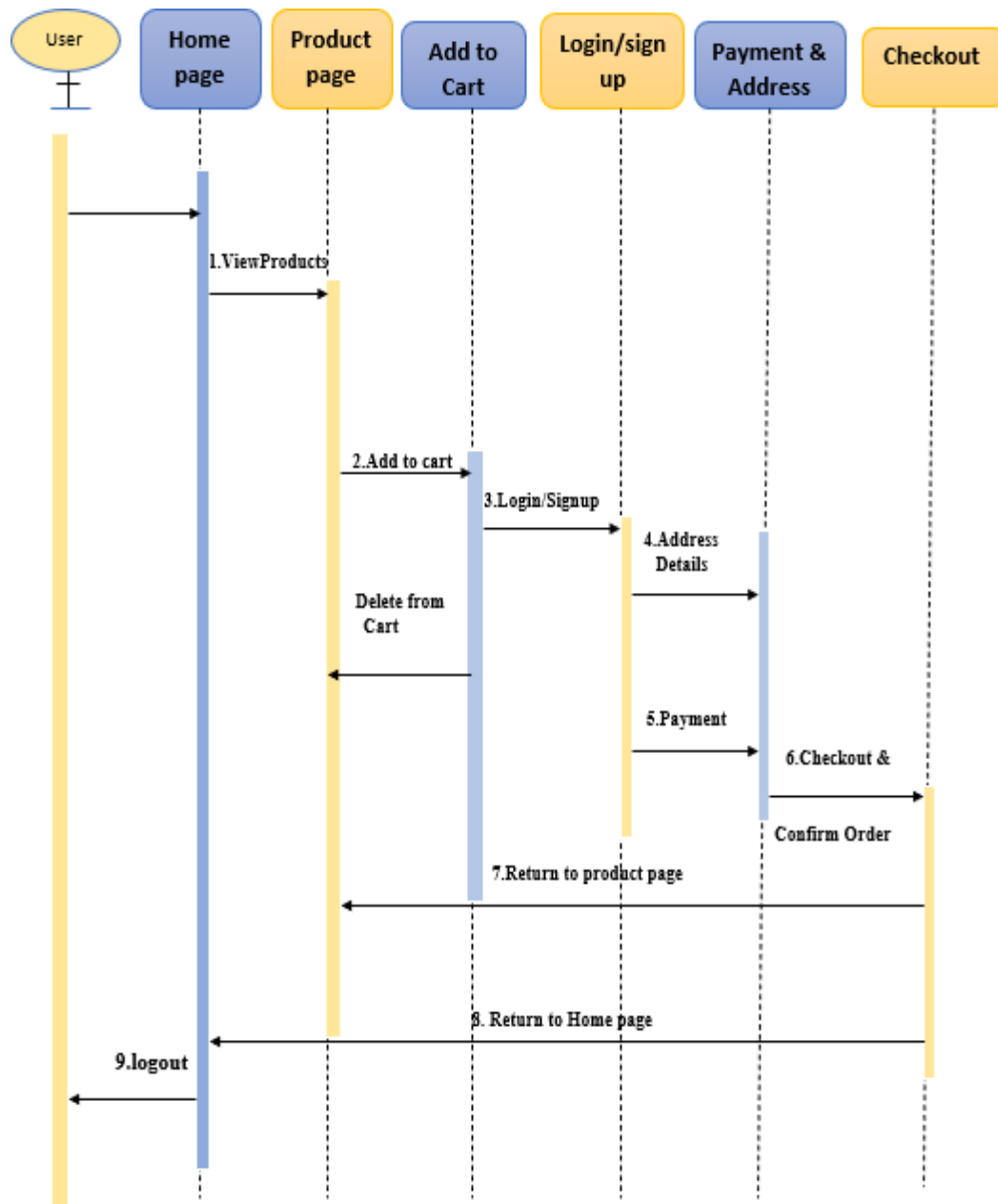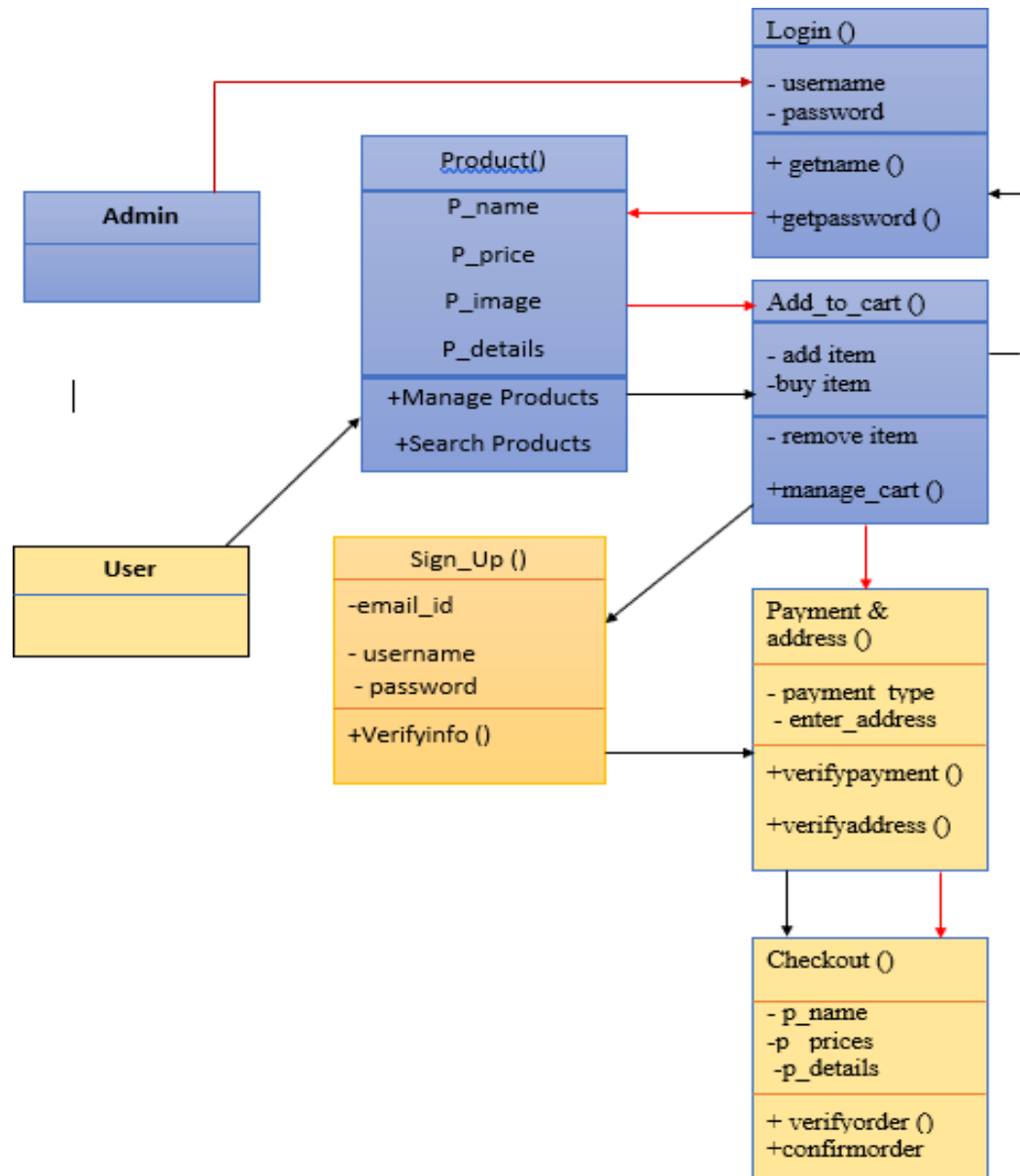
8. Flowchart

A Flow Chart (also known as a Process Flow Diagram or Process Map) is a diagram of the steps in a process and their sequence.

9.Class Diagram

10. Entity Relationship Diagram

An entity relationship diagram (ERD), also known as an entity relationship model, is a graphical representation that depicts relationships among people, objects, places, concepts or events within an information technology (IT) system

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