



Rajiv Gandhi University of Knowledge Technologies

(Catering the Educational Needs of Gifted Rural Youth of A.P)

R.K Valley , Y.S.R Kadapa(Dist)-516330

Project Report

On

ProShop

Submitted by

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CERTIFICATE

This is to certify that the project titled “**PROSHOP**” is a bonafied project submitted by **GURRAMKONDA ABDUL KAREEM** with ID **R171144** in the department of **COMPUTER SCIENCE AND ENGINEERING** in partial fulfillment of requirement for the award of degree **BACHELOR OF TECHNOLOGY** for the year **2022-2023** carried out the work under the supervision.

N. SATYANANDARAM
(HOD CSE)

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(Project Guide)

ACKNOWLEDGEMENT

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I would like to convey my special thanks to our guide **Mr. B LINGAMURTHY** for guidance, encouragement, co-operation and kindness during the entire duration of course and academics.

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ABSTRACT

“PROSHOP” is a web application which can be used by Admin and Customers. The admin to advise/publish the availability of rooms in different hotels and customers are checking the availability of room in required hotel. Customers should be able to know the availability of the rooms on a particular date to reserve in hotel. They should be able to reserve the available rooms according to their need in advance to make their stay comfortable. The Admin hands the booking information of customers. The users can register and log into the system. The administrator will know the details of reservation and daily income. The hotel department maintain the seat availability and booking details in certain database. This project provides high security to Admin and user information.

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1. INTRODUCTION

1.1 Purpose

The software requirement specification mainly describes both functional and non-functional requirements for the ORMS. This is mainly designed for ordering food and reserving a table in online. The document also provides a detailed information of the external interfaces, performance considerations and design constraints. The document should act as a foundation for efficient and well managed project completion.

1.2 Intended audience and reading suggestions

The intended audience of this document would be manager and employees in the restaurant and the project team with the objective to refer and analyze the information. The SRS document can be used in any case regarding the requirements of the project and the solutions that have been taken. Here is the brief overview of the document.

1. Overall description
2. System features
3. Design
4. External interface requirements
5. Non-functional requirements

1.3 Project Scope

The main objective of this software is to make users buy products online. The system will have many kinds of products. In current the database admin manages all the products, prices in every category that is collaborated with the platform. In this system, easy to manage all products, orders. The database management involves creation and deletion of the products and users data also. Safety and easyness of using and most importantly efficiency of retrieving information are the major benefits of the project .

2. OVERALL DESCRIPTION

The following section presents overall description about the system. The product has been put into a detailed assessment of the system, user, hardware, software and communication interfaces, memory consideration and adoptive requirements.

2.1 Product perspective

The Proshop is new e-commerce based application providing ease to the customer to track the products and their orders. The newly introduced system provides an easy access to the system and it will contain user friendly functions with attractive interfaces. System will give better options for selecting appropriate product for user needs, for the errors occurring in calculation. The system will give final outcome which will increase the efficiency of all tasks.

2.2 Product Features

1. View latest products
2. Select category
3. Select Product
4. Check product in stock
5. Place Order
6. Track Order
7. Cancel Order
8. Change Addresses
9. View offers and discounts

2.3 User classes and Characteristics

There are mainly 1 users:

1. Admin

Admin:

Admin has the privilege of monitoring and authorization of all tasks handled by the system. Taking backups and restoring details all done by admin and can access all functionalities which are performed by system. Manager manages all these things and receives the daily booking details and info of the users. Admin has permission to update the users, products or orders timely in the website.

2.4 Operating requirements

Hardware requirements:

1. Operating system supports all known operating systems.
2. Monitor with 512gb ROM+6gb RAM, minimum resolution of 1028x720, keyboard and mouse.
3. Hard drive should be with 10 gb of free space.

Software requirements:

1. Software is designed to open on any browsers or any platform.
2. MongoDB Atlas database management is used.
3. MongoDB, Express, React, Node technologies are used.

2.5 Design and implementation constraints

Development team can provide their best effort for developing. In order to maintain reliability and durability of the system some constraints are applied. Due to time constraint portability of system is not possible and need to have atleast 1GB of memory. In design interface we had the capability of work with new tools. Considering the budget decided to create interfaces in a simple manner with affordable technology.

2.6 Assumptions and Dependencies

Some software use high cost for implementing the system and the client also agreed for that. Its assumed that client won't change the decision on the next phases. Although the client using a software we have to make the project according to them, if client need changes we need to change the SRS document.

3. EXTERNAL INTERFACE REQUIREMENTS

3.1 User Interfaces:

Admin interface

Admin have the permission to access all interfaces, also change or update the ordering interface and can change the information of software. Manager accepts the orders and change the prices. The order details all are stored in inventory database from that manager can access daily information about the orders . Also have the permission to backup all the customer details and order details.

Customer interface

The home pages contains all the details about category of products available in the store and contains the information about the prices, ratings and reviews. And Login page , Registration pages are there. After searching the product, it displays all the related products that matched with the search keywords.

3.2 Software Interfaces

The system shall communicate with configurate to identify all the available services. The system should communicate with system manager to get the specification and should use above windows 7 operating system. There are details of interface and rooms, hotels and database interfaces are there in the system.

3.3 Hardware Interfaces

A specified computer must match with the above mention requirements in order to gain the maximum benifites from the system in a useful manner. Resevation alerts should be send to the employees of the hotel so need of broadband internet connection. Also need network for updating the infomation. Shall be logical address of the system in Ipv6 format.

3.4 Communication Interfaces

Communication function required the internet protocol version 6 and it will follow HTTPS. It will use FTP for whole system with local server. And email communication to device to device of the system for giving the ordered details and infomation to the management and Employees.

4. FUNCTIONAL REQUIREMENTS

Ordering Product

Customer can order their favorite product among the list of products, according to their price preferences and other preferences in the Proshop platform. For ordering those products the customer needs to login with their account.

Admin Taking order details

All the details of customers and their orders are taken by admin for ensuring the ensuring order successful delivery.

Veiwing order statistics

The admin can access all the order details everyday and the data is stored in the inventory. The amount information also stored in inventory.

Updating products and orders

The manager have the permission to update the products. Manager will add or remove the products and he can able to update the status of the orders like shipped or delivered.

5. NON-FUNCTIONAL REQUIREMENTS

5.1 Performance

Performance requirements define acceptable response times for system functionality. Although the system is developed suiting for the least system performances, the performance of the system will highly depend on the performance of the hardware and software components of the installing computer. When consider about the timing relationships of the system the load time for user interface screens shall take no longer than two seconds. It makes fast access to system functions. The log in information shall be verified within five seconds causes' efficiency of the system. Returning query results within five seconds makes search function more accurate.

5.2 Safety requirements

Customer Service Representatives and Managers and admin will be able to log in to the Proshop. Customer Service Representatives will have access to the Product ordering and subsystems. Admin will have access to the Management subsystem as well as the Ordering subsystems. Owner has the maximum privilege to all subsystems. Access to the various subsystems will be protected by a user log in screen that requires a user name and password.

5.3 Software quality

There are several user levels in E-Commerce Portal, Access to the various subsystems will be protected by a user log in screen that requires a user name and password. This gives different views and accessible functions of user levels through the system. Maintaining backups ensure the system database security. System can be restoring in any case of emergency.

5.4 Software Quality Attributes

- Availability: - The system shall be available during normal hotel operating hours
- Correctness: - extent to which program satisfies specifications, fulfills user's mission objectives
- Efficiency: - How much less number of resources and time are required to achieve a particular task through the system.
- Flexibility: - Ability to add new features to the system and handle them conveniently.
- Integrity: - How the system would insecure the information in the system and how it avoids the data losses. Referential integrity in database tables and interfaces
- Maintainability: - How easy is to keep the system as it is and correct defects with making changes.
- Portability: - The E-Commerce Portal shall run in any Microsoft Windows environment
- Reliability: - Specify the factors required to establish the required reliability of the software system at time of delivery. Mean time between failures and mean time to recovery
- Reusability: - What is the ability to use the available components of the system in other systems as well.
- Testability: - Effort needed to test to ensure performs as intended
- Usability: - How easily a person can be taken the benefits of the system and the user friendliness.
- Robustness: – Strength of the system to handle system functions accurately and maintain the database without facing to unexpected failures
- Maintainability: – What design, coding standards must be adhered to exclusions created

Design Introduction:

Design is the first step in the development phase for any techniques and principles for the purpose of defining a device, a process or system in sufficient detail to permit its physical realization. Once the software requirements have been analyzed and specified the software design involves three technical activities - design, coding, implementation and testing that are required to build and verify the software.

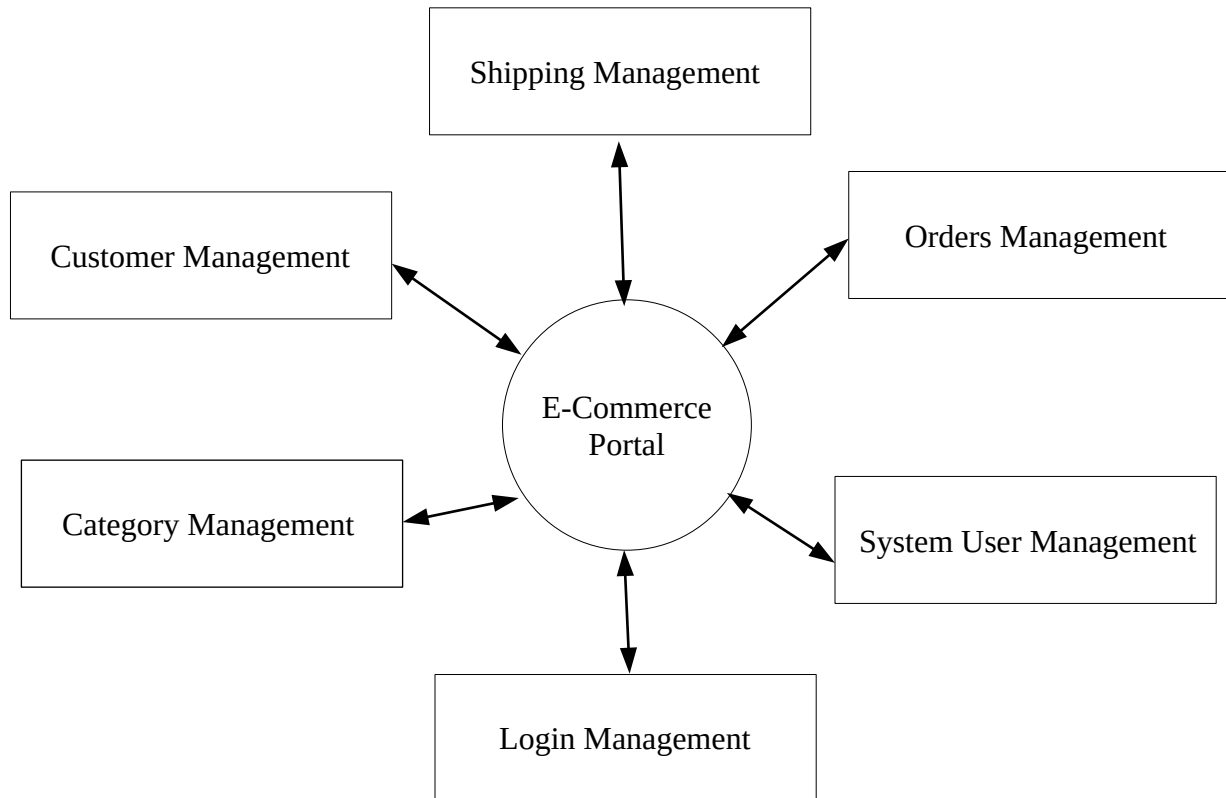
The design activities are of main importance in this phase, because in this activity, decisions ultimately affecting the success of the software implementation and its ease of maintenance are made. These decisions have the final bearing upon reliability and maintainability of the system. Design is the only way to accurately translate the customer's requirements into finished software or a system.

Design is the place where quality is fostered in development. Software design is a process through which requirements are translated into a representation of software. Software design is conducted in two steps. Preliminary design is concerned with the transformation of requirements into data.

6. UML DIAGRAMS

UML stands for Unified Modeling Language. UML is a language for specifying, visualizing and documenting the system. This is the step while developing any product after analysis. The goal from this is to produce a model of the entities involved in the project which later need to be built. The representation of the entities that are to be used in the product being developed need to be designed.

6.1 DATA FLOW DIAGRAM



6.2 ER Diagram

The Entity-Relationship (ER) model was originally proposed by Peter in 1976 [Chen76] as a way to unify the network and relational database views. Simply stated the ER model is a conceptual data model that views the real world as entities and relationships. A basic component of the model is the Entity-Relationship diagram which is used to visually represent data objects. Since Chen wrote his paper the model has been extended and today it is commonly used for database design for the database designer, the utility of the ER model is:

- It maps well to the relational model. The constructs used in the ER model can easily be transformed into relational tables.
- It is simple and easy to understand with a minimum of training. Therefore, the model can be used by the database designer to communicate the design to the end user.
- In addition, the model can be used as a design plan by the database developer to implement a data model in specific database management software.

ER Notation:

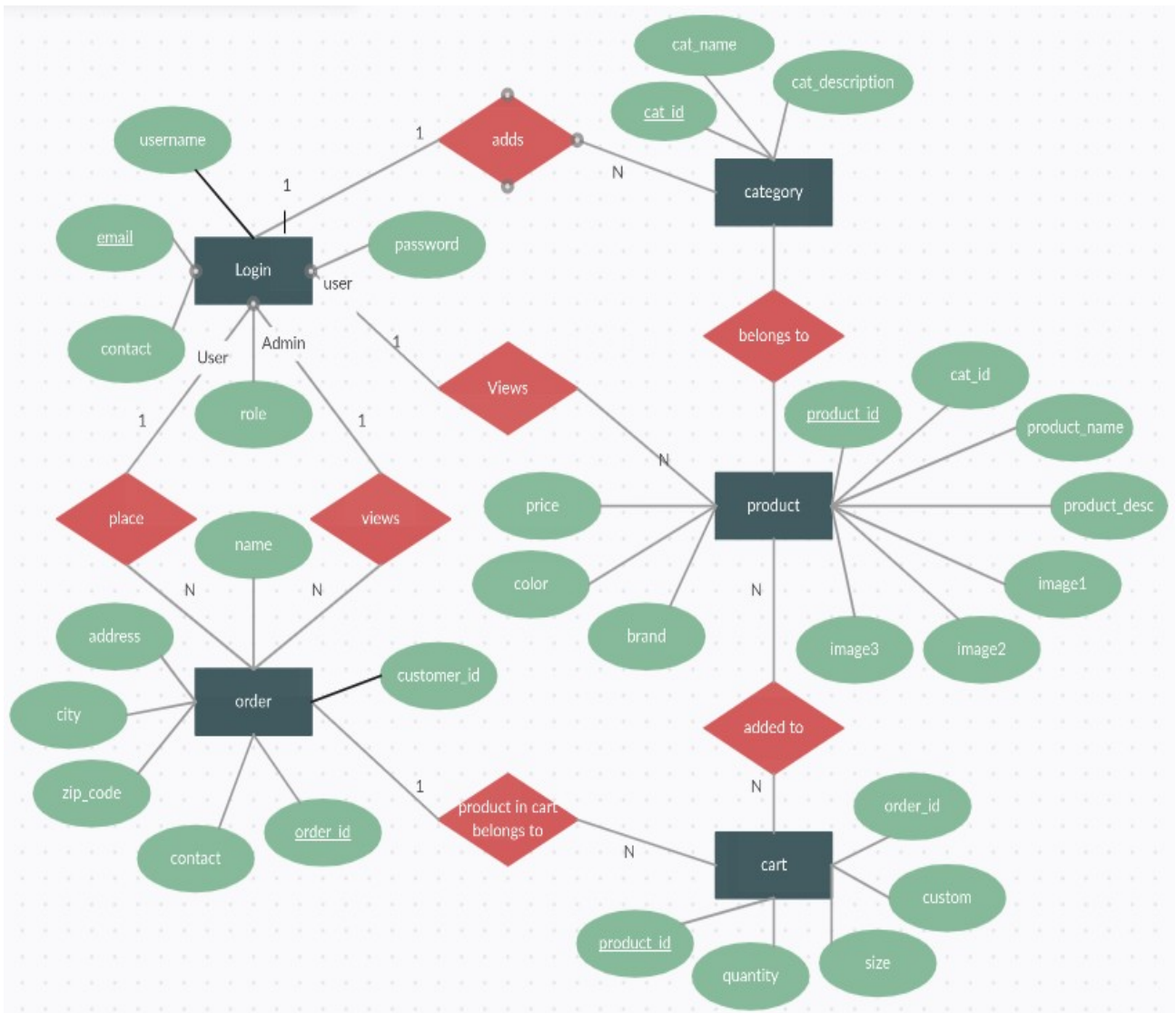
There is no standard for representing data objects in ER diagrams. Each modeling methodology uses its own notation. The original notation used by Chen is widely used in academics texts and journals but rarely seen in either CASE tools or publications by non-academics. Today, there are a number of notations used; among the more common are Bachman, crow's foot, and IDEFIX.

All notational styles represent entities as rectangular boxes and relationships as lines connecting boxes. Each style uses a special set of symbols to represent the cardinality of a connection. The notation used in this document is from Martin. The symbols used for the basic ER constructs are:

- **Entities** are represented by labeled rectangles. The label is the name of the entity. Entity names should be singular nouns.
- **Relationships** are represented by a solid line connecting two entities. The name of the relationship is written above the line. Relationship names should be verbs.
- **Attributes**, when included, are listed inside the entity rectangle. Attributes which are identifiers are underlined. Attribute names should be singular nouns.
- **Cardinality** of many is represented by a line ending in a crow's foot. If the crow's foot is omitted, the cardinality is one.

Existence is represented by placing a circle or a perpendicular bar on the line.

E-R Diagram:



6.3 USECASE DIAGRAMS

Use case diagrams model behavior within a system and helps the developers understand of what the user require. The stick man represents what's called an actor.

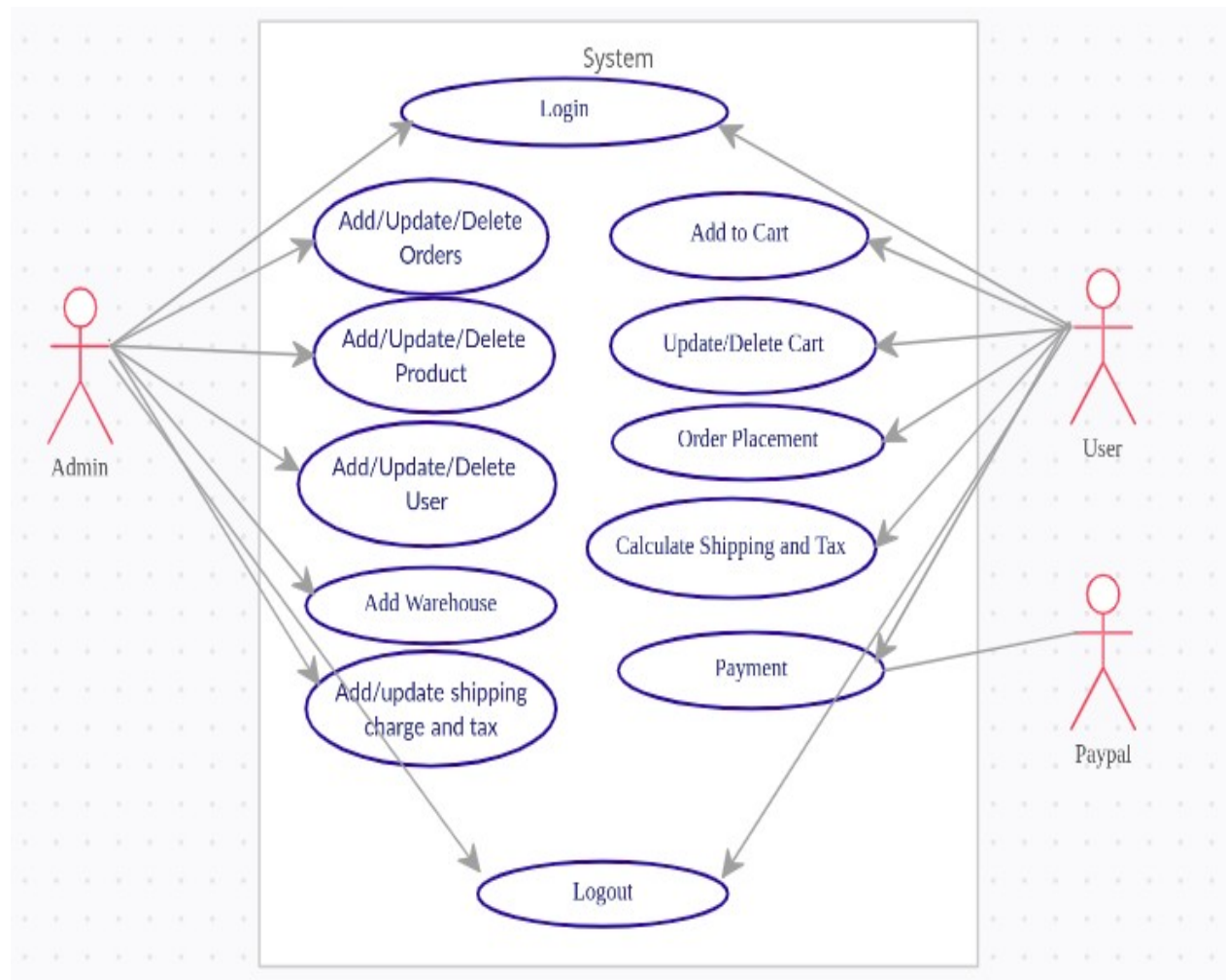
Use case diagram can be useful for getting an overall view of the system and clarifying that can do and more importantly what they can't do.

Use case diagram consists of use cases and actors and shows the interaction between the use case and actors.

- The purpose is to show the interactions between the use case and actor.
- To represent the system requirements from user's perspective.
- An actor could be the end-user of the system or an external system.

USECASE DIAGRAM: A Use case is a description of set of sequence of actions. Graphically it is rendered as an ellipse with solid line including only its name. Use case diagram is a behavioral diagram that shows a set of use cases and actors and their relationship. It is an association between the use cases and actors. An actor represents a real-world object. Primary Actor – Sender, Secondary Actor Receiver.

Usecase Diagram:



7. IMPLEMENTATION AND SYSTEM TESTING:

After all phase have been perfectly done, the system will be implemented to the server and the system can be used.

System Testing

The goal of the system testing process was to determine all faults in our project .The program was subjected to a set of test inputs and many explanations were made and based on these explanations it will be decided whether the program behaves as expected or not. Our Project went through two levels of testing.

1. Unit testing
- 2 .Integration testing

Unit Testing

Unit testing is commenced when a unit has been created and effectively reviewed. In order to test a single module we need to provide a complete environment i.e. besides the section we would require. The procedures belonging to other units that the unit under test calls Non local data structures that module accesses.

Integration Testing

In the Integration testing we test various combination of the project module by providing the input. The primary objective is to test the module interfaces in order to confirm that no errors are occurring when one module invokes the other module.

Regression testing

Regression testing is a software testing practice that ensures an application still functions as expected after any code changes, updates, or improvements. Regression testing is responsible for the overall stability and functionality of the existing features.


8. PROJECT OUTPUT:


USER INTERFACE (CUSTOMER)

SIGNIN PAGE:

PROSHOP

SEARCH

 CART

 SIGN IN

SIGN IN

Email Address

Password

SIGN IN


[New Customer? Register](#)


Copyright © ProShop

SIGNUP PAGE:

PROSHOP

SEARCH

 CART

 SIGN IN

SIGN UP

Name

Email Address

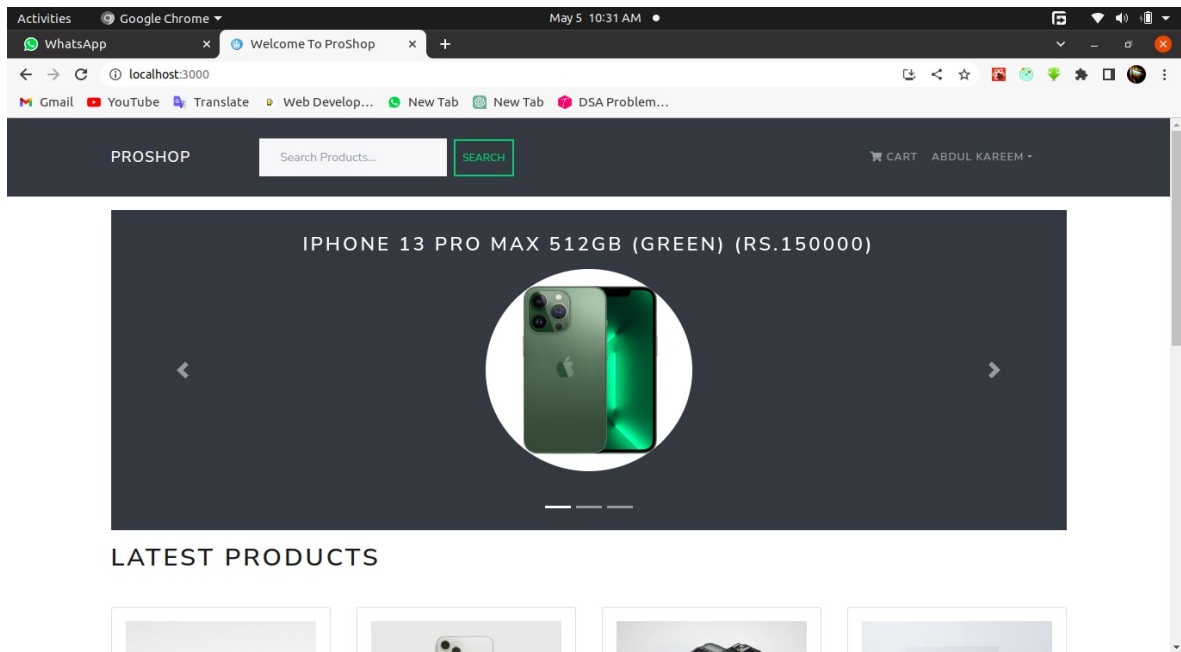
Password

Confirm Password

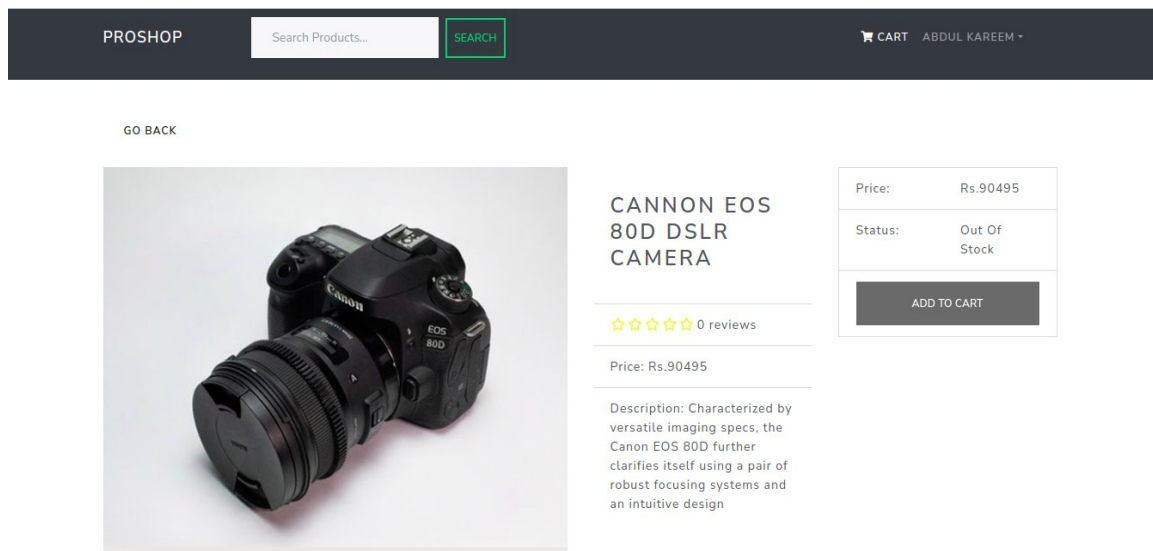
REGISTER

[Have an Account? Login](#)

HOME PAGE:



PRODUCT PAGE:



POSTING REVIEWS PAGE:

REVIEWS

No Reviews

WRITE A CUSTOMER REVIEW

Rating

Select...

Comment

SUBMIT

Copyright © ProShop

PRODUCT CHECKOUT PAGE:

PROSHOP

Search Products...

SEARCH

CART ABDUL KAREEM

SHOPPING CART



iPhone 13 Pro Max
512GB (Green)

Rs.150000

1



SUBTOTAL (1) ITEMS

Rs.150000.00


PROCEED TO CHECKOUT

Copyright © ProShop

SHIPPING PAGE:

PROSHOP

SEARCH

 CART ABDUL KAREEM ▾

Sign In

Shipping

Payment

Place Order

SHIPPING

Address

BH2 backside, RGUKT-RK Valley

City

Kadapa

Postal Code

516330

Country


India

CONTINUE

PAYMENT SELECTION PAGE:

PROSHOP

SEARCH

 CART ABDUL KAREEM ▾

Sign In

Shipping

Payment

Place Order

PAYMENT METHOD

Select Method

☒ PayPal or Credit Card

CONTINUE

PLACE ORDER PAGE:

PROSHOP

Search Products...

SEARCH

CART ABDUL KAREEM

Sign In

Shipping

Payment

Place Order


SHIPPING

Address:BH2 backside, RGUKT-RK Valley, Kadapa 516330, India

PAYMENT METHOD

Method: PayPal

ORDER ITEMS

 iPhone 13 Pro Max 512GB (Green)

1 x Rs.150000 =
Rs.150000

ORDER SUMMARY

Items	Rs.150000.00
Shipping	Rs.0.00
Tax	Rs.22500.00
Total	Rs.172500.00

PLACE ORDER

Copyright © ProShop

ORDERING PAGE:

PROSHOP

Search Products...

SEARCH

CART ABDUL KAREEM

ORDER 64548F0E90B2AD10288DE391

SHIPPING

Name: abdul kareem

Email: abdul123@gmail.com

Address:BH2 backside, RGUKT-RK Valley, Kadapa 516330, India

Not Delivered

PAYMENT METHOD

Method: PayPal

Not Paid

ORDER SUMMARY

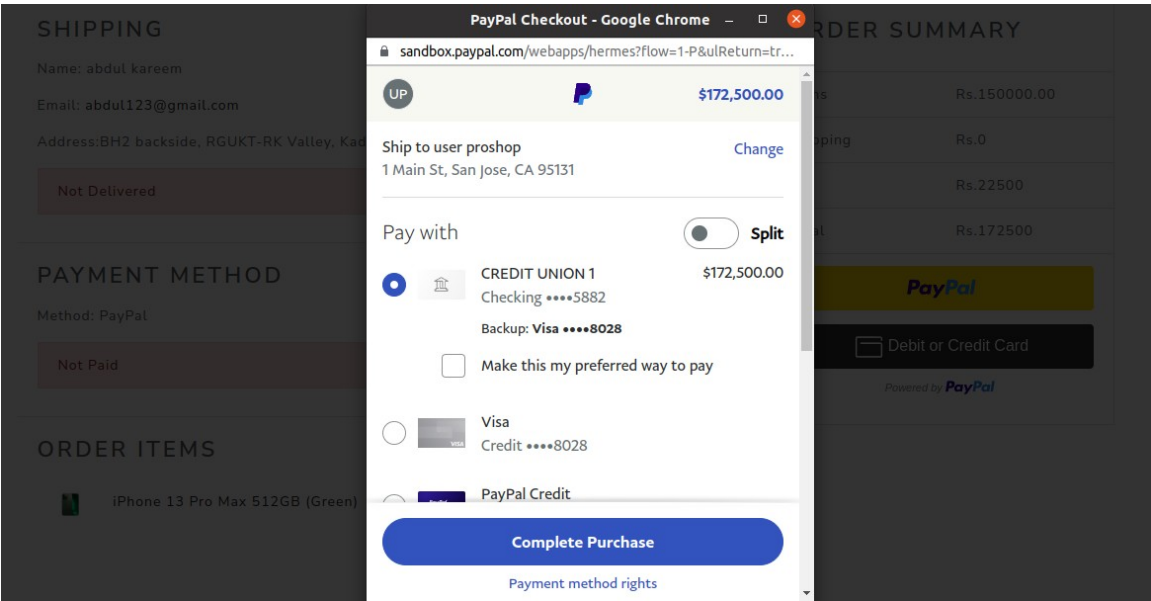
Items	Rs.150000.00
Shipping	Rs.0
Tax	Rs.22500
Total	Rs.172500

PayPal

Debit or Credit Card

Powered by PayPal

PAYMENT PAGE:



ADMIN INTERFACE:

ADMIN USER CONTROL:



USERS

ID	NAME	EMAIL	ADMIN	
63bd137f01533747eb4a6b6d	Admin User	admin@example.com	✓	<input checked="" type="checkbox"/> <input type="button" value="X"/>
63bd137f01533747eb4a6b6e	John Doe	john@example.com	✗	<input checked="" type="checkbox"/> <input type="button" value="X"/>
63bd137f01533747eb4a6b6f	Jane Doe	jane@example.com	✗	<input checked="" type="checkbox"/> <input type="button" value="X"/>
63bd90e255d68116c3a77d4b	Abdul Kareem	abdul@gmail.com	✗	<input checked="" type="checkbox"/> <input type="button" value="X"/>
63cccd50d17c440e6514ab97	MV Pavan Kumar Reddy	pavan920929@gmail.com	✗	<input checked="" type="checkbox"/> <input type="button" value="X"/>
63ce9a91d5e7344210f6dc4e	Deepak Karumuri	deepak123@gmail.com	✗	<input checked="" type="checkbox"/> <input type="button" value="X"/>
63cff4162223e1176d5b712c	Krishna	Krishna@gmail.com	✗	<input checked="" type="checkbox"/> <input type="button" value="X"/>

ADMIN CREATE PRODUCT:

PROSHOP

SEARCH















CART

ADMIN USER

ADMIN

PRODUCTS

[+ CREATE PRODUCT](#)

ID	NAME	PRICE	CATEGORY	BRAND	
63bd138001533747eb4a6b70	Airpods Wireless Bluetooth Headphones	Rs.9999	Electronics	Apple	 
63bd138001533747eb4a6b71	iPhone 11 Pro 256GB Memory	Rs.69999	Electronics	Apple	 
63bd138001533747eb4a6b72	Cannon EOS 80D DSLR Camera	Rs.90495	Electronics	Cannon	 
63bd138001533747eb4a6b73	Sony Playstation 4 Pro White Version	Rs.28999	Electronics	Sony	 
63bd138001533747eb4a6b74	Logitech G-Series Gaming Mouse	Rs.1999	Electronics	Logitech	 
63bd138001533747eb4a6b75	Amazon Echo Dot 3rd Generation	Rs.3499	Electronics	Amazon	 
63ce9b67d5e7344210f6dc4f	iPhone 13 Pro Max 512GB (Green)	Rs.150000	Mobiles	iPhone	 

ADMIN ORDERS HANDLE:

PROSHOP

SEARCH

CART

ADMIN USER

ADMIN

ORDERS

ID	USER	DATE	TOTAL	PAID	DELIVERED	
63be1b48b084712402b5b049	Abdul Kareem	2023-01-11	Rs.689.99	2023-01-11	2023-01-11	DETAILS
63c6bbc7490c3a122e4d698e	Admin User	2023-01-17	Rs.11498.85	2023-01-17	2023-01-17	DETAILS
63c6bca7490c3a122e4d6990	Abdul Kareem	2023-01-17	Rs.11498.85	2023-01-17	✖	DETAILS
63ca216308112215d9d69f62	Abdul Kareem	2023-01-20	Rs.11498.85	✖	✖	DETAILS
63cccdabd17c440e6514ab98	MV Pavan Kumar Reddy	2023-01-22	Rs.689.99	2023-01-22	2023-01-22	DETAILS
63ce98dee4b7893e0bc77dd9	MV Pavan Kumar Reddy	2023-01-23	Rs.134.49	2023-01-23	✖	DETAILS
63ce9f80d5e7344210f6dc51	Deepak Karumuri	2023-01-23	Rs.172500	2023-01-23	✖	DETAILS

USER PROFILE:

PROSHOP

Search Products...

SEARCH

CART

ADMIN USER

ADMIN

USER PROFILE

Name

Admin User

Email Address

admin@example.com

Password

Enter password

Confirm Password

Confirm password

UPDATE

MY ORDERS

ID	DATE	TOTAL	PAID	DELIVERED	
63c6bbc7490c3a122e4d698e	2023-01-17	11498.85	2023-01-17	2023-01-17	DETAILS
63d77e75ce9a6c23443ba4da	2023-01-30	2298.85	2023-01-30	2023-01-30	DETAILS
63e32ed5b75d1e3279404080	2023-02-08	172500	×	×	DETAILS

10. CONCLUSION

The conclusion of this project is Hotel management system is a computerized management system. This system keeps the records of hardware assets besides software of this organization. The proposed system will keep a track of Workers, Residents, Accounts and generation of report regarding the present status. This project has GUI based software that will help in storing, updating and retrieving the information through various user-friendly menu-driven modules. The project “Hotel Management System” is aimed to develop to maintain the day-to-day state of admission/Vacation of Residents, etc. Main objective of this project is to provide solution for hotel to manage most there work using computerized process. This software application will help admin to handle customers information, room allocation details, payment details, billing information.etc. Detailed explanation about modules and design are provided in project documentation. The existing system is a manually maintained system. All these details are entered and retrieved manually,because of this there are many disadvantages like Time Consuming ,updating process, inaccuracy of data.For avoiding this we

introduced or proposed a new system in proposed system the computerized version of the existing system. provides easy and quick access over the data.

11.REFERENCES

www.academia.edu

www.w3schools.com

www.stackoverflow.com

www.getbootstrap.com

www.mongodb.com

<https://nodejs.org>

<https://expressjs.org>

*******THANK YOU*******