

Product Marketing & Selling Portal

A PROJECT REPORT

Submitted by

Misha Thakkar: 5079

Name of Company: Gateway Group Of Companies

Date of Submission: 23-July-2020

Submitted To

K. S. School of Business Management

M.Sc. – Computer Application and Information Technology



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Acknowledgements

It was a great experience working on the documentation of “Product Marketing and Selling Portal”. We express our gratitude towards those who were constantly involved with us during our project.

The phenomenon remains same that no project ever can be executed proficiently and efficiently without sharing the meticulous ideas, technical expertise and innovative thoughts put forwarded by technical and non-technical veterans.

Whenever a technical project is developed, eventually it requires conductive technical environment and technical guidance to get involved in the assigned project enthusiastically. We also grateful to “KSSBM” for being extremely friendly and cooperative during entire course of our project report. Their continuous help and support made the project documentation much easy. There is no exact word to express our regards and legitimate gratitude to one of our esteemed techno personality, without them this project could not get an entrance towards the execution. Our Project mentor is the pioneer who availed this magnificent option to us to move ahead.

CHAPTER 1 : INTRODUCTION

1.1 ORGANIZATION PROFILE

The Gateway Corp, a privately held global enterprise, is headquartered in India and The Netherlands. The Gateway Corp is the principal holding company and promoter of all Gateway Group Companies, comprising of 20 independent operating companies across 16 countries.

Over the last 22 years of Technology excellence, the Group has etched an enviable record of 80% client retention, in some of the most complex, non-English speaking markets, where we ensure that technology remains at the forefront of our clients' business to achieve strategic differential advantage over their competition.

Our Vision 2023 is built on this foundation. The aggressive strategy for organic and inorganic growth entails – development of disruptive solutions, strategic initiatives & partnership and new markets penetration.

1.2 SYSTEM DETAILS

1.2.1 STUDY OF CURRENT SYSTEM

There are only few web portals available which provides functionality as our web application. One of the best advantage of our portal is product purchasement security, manually verified buyers & sellers and 100% secured buyer's & seller's information (Like order details, personal details, user's cart details etc.).

1.2.2 PROBLEMS AND WEAKNESS OF CURRENT SYSTEM

- ✓ Current systems do not support return and replacement of products.
- ✓ Current systems do not provide functionality to cancel pre-requested orders.
- ✓ Current systems do not support payment gateway for product purchasement.
- ✓ Current systems do not provide functionality to share product details to others.
- ✓ Current systems do not provide user contact/complaint forum.

1.3 SCOPE OF SYSTEM

- Create and manage different users with varied roles and scopes for admin.
- Create and manage products details for admin.
- Create and manage locations details for admin.
- Create and manage categories details for admin.

- Create and manage events details for admin.
- Create and manage user's cart products for admin.
- Manage add new product requests for admin.
- Manage add new event requests for admin.
- Manage product purchase requests for admin.
- Create and manage all server configuration for admin
- Manage error logs and user interaction logs for admin
- Manage product purchase status for admin.
- Promote (Request to Add) Own Product for login user and guest.
- Request to add new Event for login users and guest.

1.4 OBJECTIVES

- Product Marketing and Selling Portal is E-Commerce Portal written in C# language,.NET MVC framework based which supports promoting and selling a product to a customer also it is defined as being the intermediary function between product development and product selling. It provides facility to users for select the product according to their choice of category and location. Main objective of our portal is to enable time management, secure transaction without data loses and making easy system that people can easily find their product information which they want.

CHAPTER :2 PROPOSED SYSTEM REQUIREMENT GATHERING

2.1 STACKHOLDER OF SYSTEM

Admin

- ✓ Manage user regarding roles, user accessibility and system configurations.
- ✓ Manage application data regarding product, categories, locations and events details.
- ✓ Manage requests regarding add new product, add new event and purchase products.
- ✓ Manage product purchasement status and user verification(manually).
- ✓ Admin has full access to check app logs and reports of user access.
- ✓ Admin can manage user regarding roles, user accessibility and system configurations.
- ✓ Admin can manage application data regarding product, categories, locations and events details.
- ✓ Admin can manage requests regarding add new product, add new event and purchase products.
- ✓ Admin can manage product purchasement status and user verification.
- ✓ Admin has full access to check app logs and reports of user access

Login User

- ✓ Login User can add product to cart and purchase product according to their choice of category and location from portal.
- ✓ Login User can request to add new product and also can request to add new event.
- ✓ Login User can also check status of requested for purchase a product.
- ✓ Registered User can add product to cart and purchase product according to their choice of category and location from portal.
- ✓ Registered User can request to add new product and also can request to add new event.
- ✓ Registered User can check status of requested for purchase a product.

Guest User

- ✓ Guest User can add product to cart and can interact with portal like login user except purchasing products. To purchase product guest user must be register self.
- ✓ Guest User can request to add new product and also can request to add new event.

2.2 SYSTEM REQUIREMENTS

R.1 Login

I/P: Email and Password

Process: Match email and password with stored database

O/P: If credentials match than user is redirected to dashboard

R.2 Admin

R.2.1 Create/Manage Products

I/P: Product details

Process: Store details in database

O/P: Success or failure message

R.2.2 Create/Manage Registered Users

I/P: Registered User details

Process: Store details in database

O/P: Success or failure message

R.2.3 Create/Manage Product Categories

I/P: Category details

Process: Store details in database

O/P: Success or failure message

R.2.4 Create/Manage Product Locations

I/P: Location details

Process: Store details in database

O/P: Success or failure message

R.2.5 Create/Manage Events

I/P: Event details

Process: Store details in database

O/P: Success or failure message

R.2.6 Manage Product Purchasement Requests

I/P: Product Purchasement details

Process: Store details in database

O/P: Success or failure message

R.2.7 Manage Add Product Requests

I/P: Product details

Process: Store details in database

O/P: Success or failure message

R.2.8 Manage Add Event Requests

I/P: Event details

Process: Store details in database

O/P: Success or failure message

R.2.9 Manage Product Purchasement Status

I/P: Product Purchasement details

Process: Store details in database

O/P: Success or failure message and reflect into purchasement status

R.2.10 Manage User Verification (Manually)

I/P: Event details

Process: Store details in database and manually verify user details

O/P: Success or failure message

R.2.11 Manage System Settings

I/P: System settings

Process: Update system setting configurations

O/P: Success or failure message

R.2.12 Manage Logs and Reports

I/P: Start date and end date

Process: generate report from database

O/P: Report and logs for admin in txt file

R.3: Registered User

R.3.1 Purchase Product According to their choice of Categories and Locations

I/P: Product details

Process: Check product available or not in database

O/P: Success or failure message

R.3.2 Add Product to Cart According to their choice of Categories and Locations

I/P: Product details

Process: Store details in database

O/P: Success or failure message

R.3.3 Promote Own Product (request to add new product) into Portal

I/P: Product details

Process: Store details in database and verify product details by admin

O/P: Success or failure message

R.3.4 Request to Add New Event into Portal

I/P: Event Details

Process: Store details in database and verify event details by admin

O/P: Success or failure message

R.3.5 Check Status of requested to Purchase Product

I/P: Product Purchasement Status

Process: Check product purchasement status into database and reflect into user product purchasement status

O/P: Product Purchasement Status

R.4 Visitor(Guest) User

R.4.1 Add Product to Cart According to their choice of Categories and Locations

I/P: Product details

Process: Store details in database

O/P: Success or failure message

R.4.2 Promote Own Product (request to add new product) into Portal

I/P: Product and User details

Process: Store details in database and verify product details by admin

O/P: Success or failure message

R.4.3 Request to Add New Event into Portal

I/P: Event and User Details

Process: Store details in database and verify event details by admin

O/P: Success or failure message

➤ FEATURES OF NEW SYSTEM

- Easy to use
- Reliable
- Time saving
- Secure

2.3USER CHARACTERISTICS

- **Admin:** - Admin can manage roles, user scopes, product details, categories details, location details, event details, product purchasement requests, add product requests, add event requests, product purchasement status, manual user verification, configure settings, can see logs and reports.
- **Login User:** - Login user can interact with portal, purchase product according to their choice of category and location. Login user can request to promote own product (add own product), request to add new event and also continuously check status of requested for purchase a product.
- **Guest User:** - Guest user can also interact with portal like login user except purchasing products. To purchase product guest user must be register self. Guest user can request to promote own product (add own product) and request to add new event also.

2.4PROJECT DEFINITION

- Product marketing & selling portal is web based application. Product marketing is a process of promoting and selling a product to a customer also it is defined as being the intermediary function between product development and product selling. This web application provides the facility to users for select the product according to their choice of category and location. User can only buy the product if he/she is registered user and also User can promote own product into portal.
- Product marketing & Selling Portal is a process of promoting and selling a product to a customer also it is defined as being the intermediary function between product development and product selling. This web application provides the facility to users for select the product according to their choice of category and location. User can only purchase the product if he/she is registered user and also user can promote own product into portal.it includes three modules: Admin, Login(Registered) User and Guest User.

2.4.1 PURPOSE

The main purpose of this project is to build the web application that enable the time management, secure transaction without data loses and making easy system that people can easily find their product information which they want. From the any place they can find the product according to their requirement they can search the category and location and get the data related their requirement. Manage Product marketing selling process. The time of User will be saved and user details are secured.

- It helps to user to get products according to their requirement.
- It is not complex system.it is user friendly system.
- User can purchase the product if they are registered user.
- All Users can request to add own product for selling purpose and that request is monitored by Admin
- All Users can do request for add event and that request is monitored by Admin.

- Admin can manage the product purchase request, add product request and add event request.
- Admin can add, update and delete products, categories, locations and events.

CHAPTER 3: SYSTEM MANAGEMENT AND PLANNING

3.1 FEASIBILITY STUDY

Whatever we think need not be feasible .It is wise to think about the feasibility of any problem we undertake. Feasibility is the study of impact, which happens in the organization by the development of a system. The impact can be either positive or negative. When the positives nominate the negatives, then the system is considered feasible.

The main objective of the feasibility study is to test the Technical, Operational and Economical feasibility for adding new modules and debugging old running system. There are aspects in the feasibility study portion of the preliminary investigation:

3.1.1 Technical Feasibility:-

- The technical feasibility study focuses on how you will deliver a product or service how you will deliver a product or service through which technology?
- The current system developed is technically feasible.
- It is a web based user interface. Thus it provides an easy access to the users.
- To access the system, internet connectivity is must require, because it is web Based websites.

3.1.2 Economical Feasibility:-

- Economic feasibility is based on cost and be benefits.
- The cost of hardware and software for the class of application being considered.
- The benefits in the form of reduced costs of fewer costly errors.
- The cost if nothing change (i.e. the proposed system is not developed).
- We are using the open source platform to build our system.
- Thus, the project is economically feasible for both client and us.

3.1.3 Operational feasibility:-

- Operational feasibility states how the requirements are satisfied and also provides possible solutions.
- By doing so there is no need for the company either to recruit some special individual to run the system or spend a huge amount to train some individual.
- Thus, the project is operationally individual.
- This project well-planned design would ensure the optimal utilization of the resources and would help in the improvement of performance status.

3.2 HARDWARE-SOFTWARE REQUIRMENT

3.2.1 HARDWARE REQUIREMENTS

- Microsoft Windows 7/8/10 installed computer.
- At least 4 GB of RAM.
- At least 1 GB of hard disc space.

3.2.2 SOFTWARE REQUIREMENTS

- Visual studio Community 2017
- SQL server 2017
- IIS Server
- Web browser (Chrome/Explorer/Mozilla Firefox)

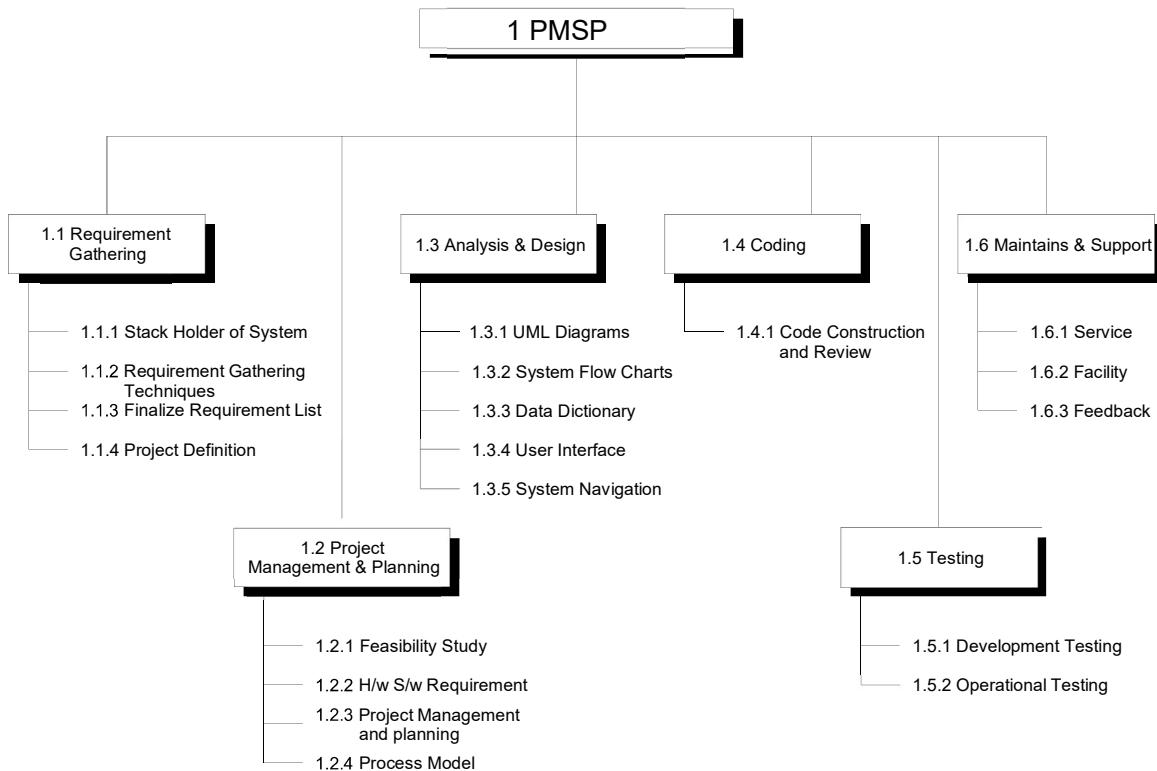
3.3 SYSTEM PLANNING

3.3.1 WORK BREAKDOWN STRUCTURE

What is a work breakdown structure?

Simply put, a work breakdown structure is a hierarchical decomposition of the scope/work that needs to be estimated and executed during the course of the project in order to accomplish the project objectives and deliverables.

WORK BREAKDOWN STRUCTURE



3.3.1 GANTT CHART

The first Gantt chart was devised in the mid 1890s by Karol Adamiecki, a Polish engineer who ran a steelworks in southern Poland and had become interested in management ideas and techniques. Some 15 years after Adamiecki , Henry Gantt, an American engineer and project management consultant, devised his own version of the chart and it was this that became widely known and popular in western countries.

Consequently, it was Henry Gantt whose name was to become associated with charts of this type.

What is a Gantt Chart?

A Gantt chart, commonly used in project management, is one of the most popular and useful ways of showing activities (tasks or events) displayed against time. On the left of the chart is a list of the activities and along the top is a suitable time scale. Each activity is represented by a bar; the position and length of the bar reflects the start date, duration and end date of the activity. This allows you to see at a glance:

- What the various activities are
- When each activity begins and ends
- How long each activity is scheduled to last

No	TASK NAME	START DATE	FINISH DATE	DURATION
1	Feasibility study	27/01/2020	01/02/2020	1 week
2	Requirement Gathering and Analysis on gathered requirements	03/02/2020	15/02/2020	2 weeks
3	Designing	17/02/2020	29/02/2020	2 weeks
4	Core Coding	02/03/2020	14/03/2020	2 weeks
5	Actual Coding	16/03/2020	28/03/2020	2 weeks
6	Testing and Maintenance	30/03/2020	13/04/2020	2 week
7	Documentation	13/04/2020	20/04/2020	1 week

3.4 PROCESS MODEL

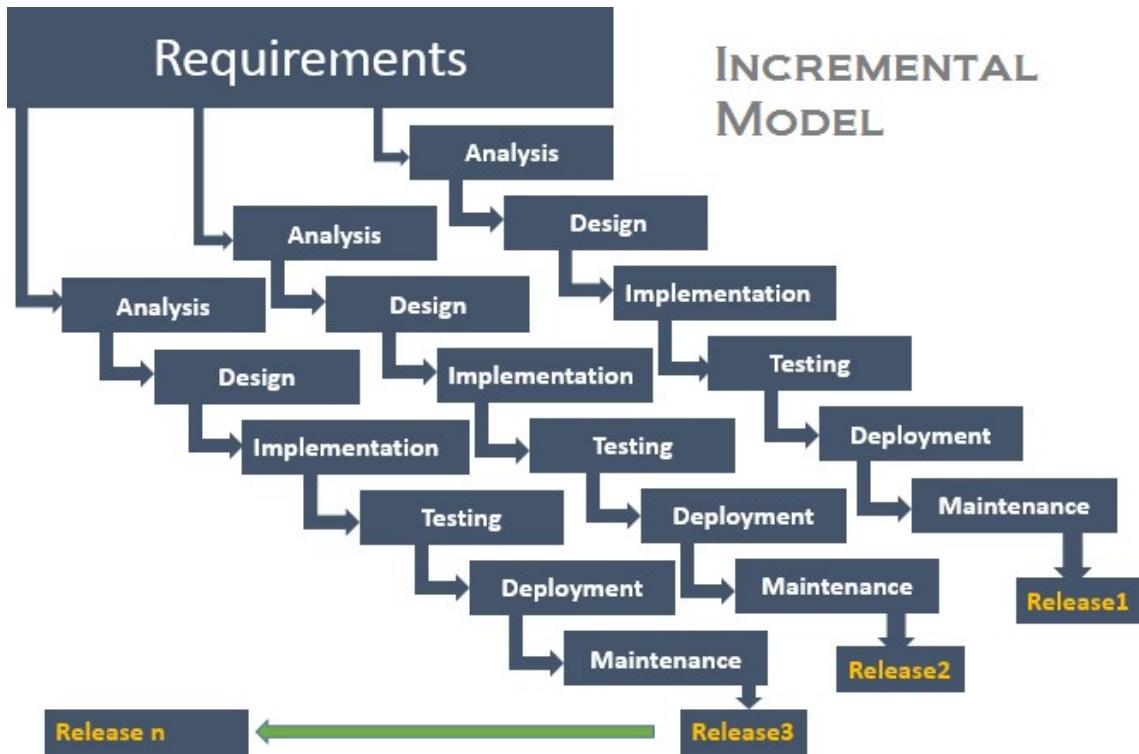
- The process model is a core diagram in structured analysis and design. Each process Transforms inputs into outputs.

- In order to complete our project in total of ten months duration, what we should do exactly is following the analysis, design, and implementation and testing parts one by one and in each one of these parts returning the previous ones and do some modifications where necessary. What we need is definitely the characteristics of the incremental model.

Incremental Model

- The incremental model combines elements of the linear sequential model (applied Repetitively), with the iterative philosophy of prototyping. Incremental Model is combination of one or more Waterfall Models. In Incremental Model, Project requirements are divided into multiple modules and each module is developed separately. Finally developed modules are integrated with other modules. During development of each module, waterfall model is followed for each module development separately and passes through the requirements, design, implementation and testing phases.

- The series of releases is referred to as “increments”, with each increment providing more Functionality to the customers. After the first increment, a core product is delivered, which can already be used by the customer. Based on customer feedback, a plan is developed for the next increments, and modifications are made accordingly and this process continues until product is delivered.
- Early increments can be implemented with fewer people. If core product is well received, then additional staff can be added to implement the next increment.
- We increments earlier to the main increment are called as “stripped down” versions of the final product.
- If there are less number of employees to work on the project Incremental development model is very useful to complete the project before the deadline. In a project early increments can be done with less number of people. In case if the core product is well-defined and understood more employees can be added if needed in the future increments.
- One of the benefits of Incremental process model is that it can be planned to manage technical risks.
- Diagram of Incremental Process Model:



Steps:

These tasks are common to all the models

Planning: required as many people (software teams) work on the same project but different function at same time.

1. Modeling: involves Analysis and Design.
2. Construction: this involves the implementation (coding) & testing.
3. Deployment: integration of all the increments.

CHAPTER:4 SYSTEM ANALYSIS and DESIGN

4.1 UML Diagram

The Unified Modelling Language is standard visual modelling language intended to be used for :

- Modelling business and similar processes,
- Analysis, design and implementation of software-based systems

UML can be applied to diverse application domains(e.g. banking, finance, internet, aerospace, healthcare, etc.) It can be used with all major object and component software development methods and for various implementation.

4.1.1 Use case Diagram

- To model a system, the most important aspect is to capture the dynamic behaviour. Dynamic behaviour means the behaviour of the system when it is running/operating.
- Only static behaviour is not sufficient to model a system rather dynamic behaviour is more important than static behaviour. In UML, there are five diagrams available to model the dynamic nature and use case diagram is one of them.
- Now as we have to discuss that the use case diagram is dynamic in nature, there should be some internal or external factors for making the interaction.
- These internal and external agents are known as actors. Use case diagrams consists of actors, use cases and their relationships. The diagram is used to model the system/subsystem of an application. A single use case diagram captures a particular functionality of a system.
- Hence to model the entire system, a number of use case diagrams are used.
- In brief, the purposes of use case diagrams can be said to be as follows :
 - Used to gather the requirements of a system.
 - Used to get an outside view of a system.
 - Identify the external and internal factors influencing the system.
 - Show the interaction among the requirements are actors.

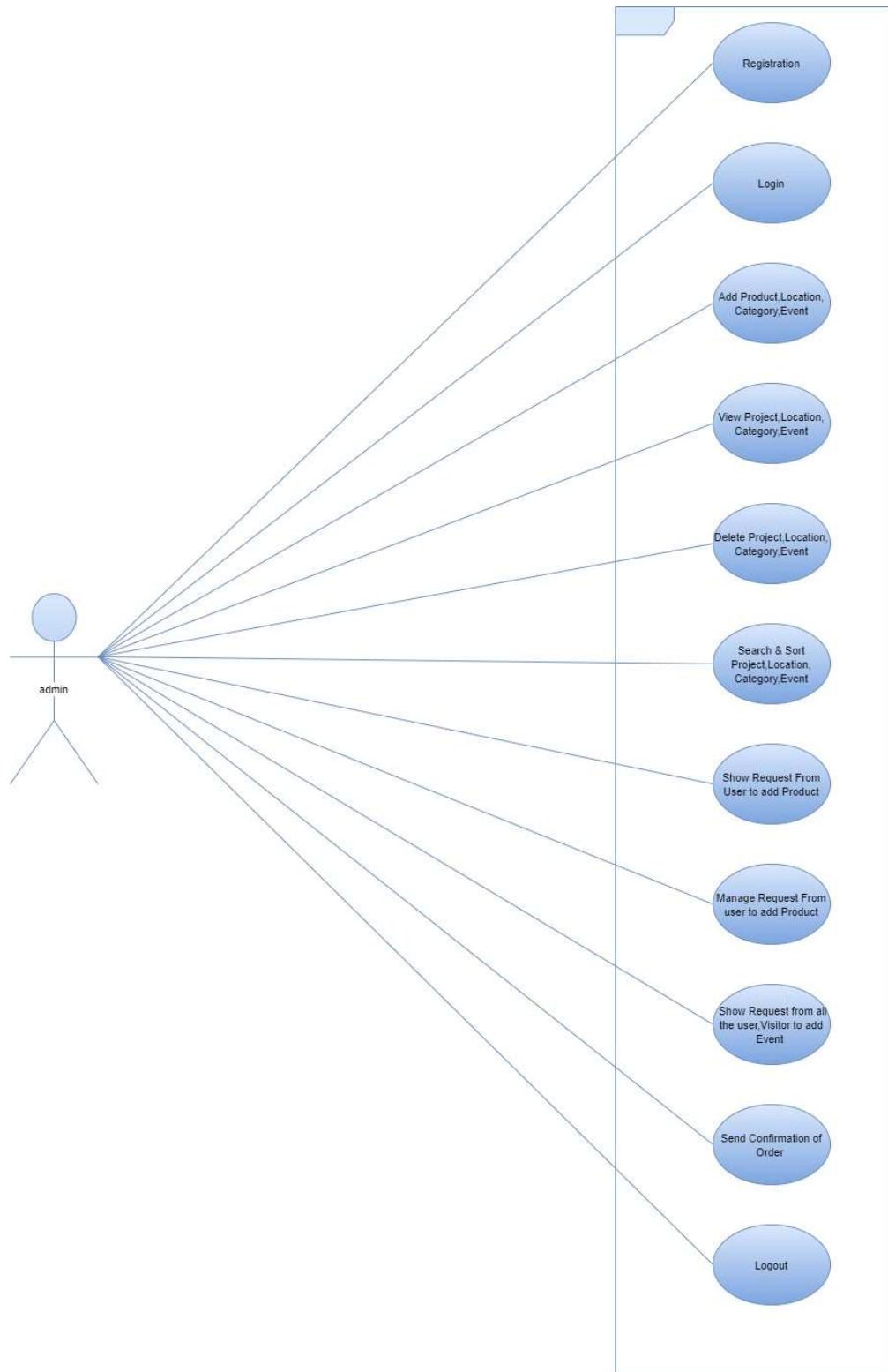


Figure 4.1 Use Case Diagram for Admin

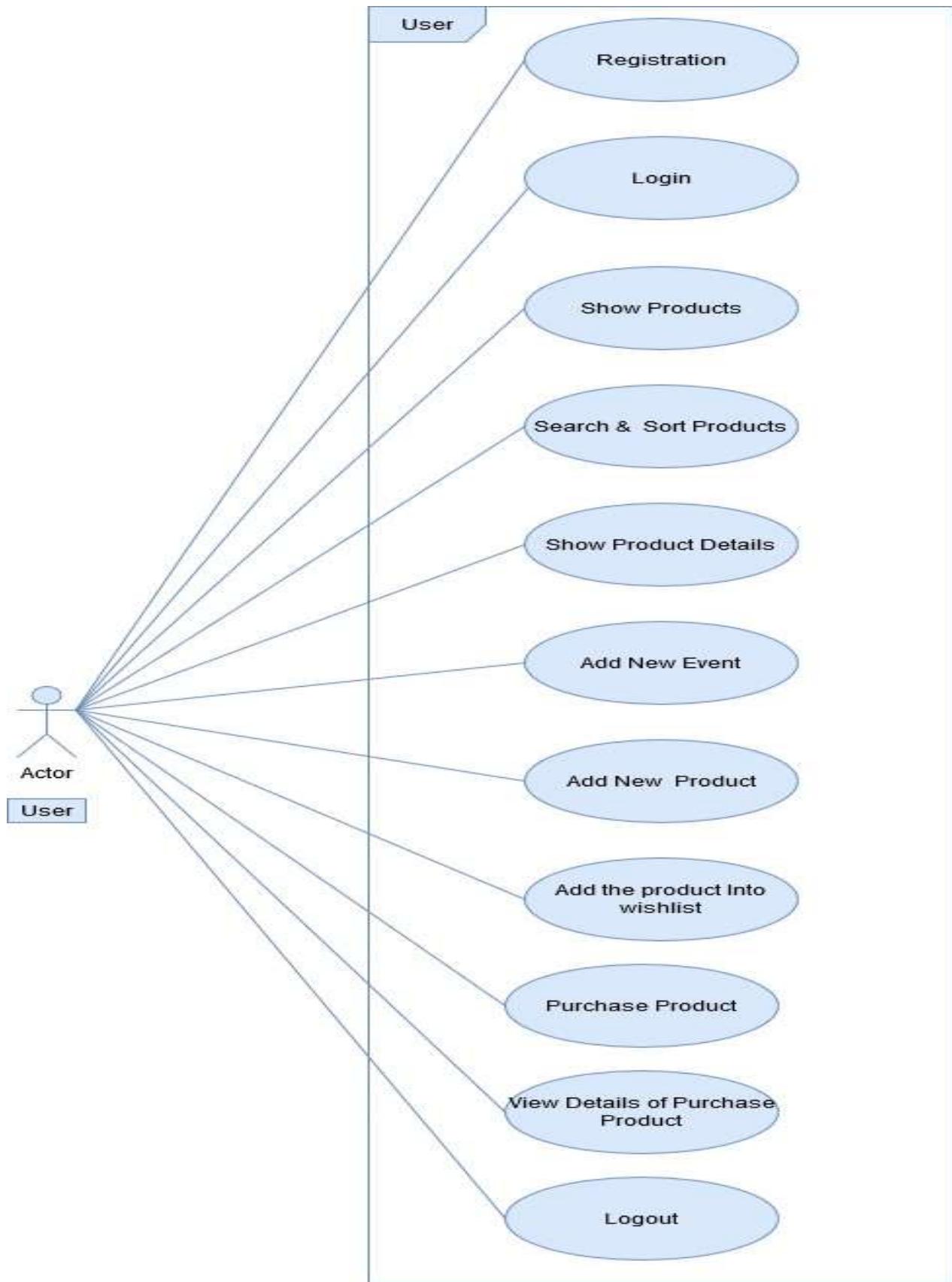


Figure 4.2 Use Case Diagram for Registered User

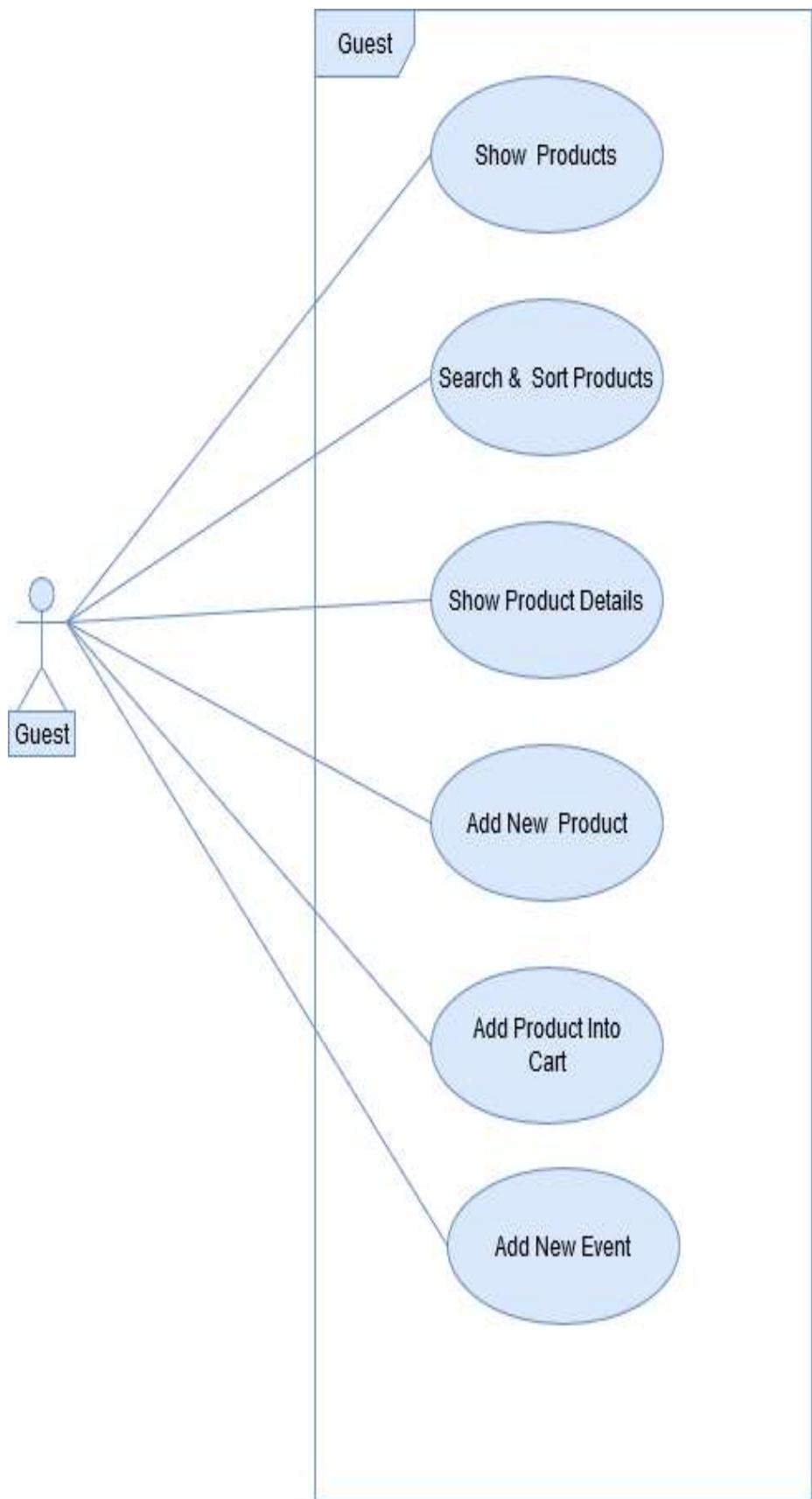


Figure 4.3 Use Case Diagram for Visitor (Guest User)

4.1.2 Activity Diagram

- Activity diagrams are graphical representations of workflows of stepwise activities and actions with support for choice, iteration and concurrency. In the Unified Modelling Language, activity diagrams are intended to model both computational and organizational processes
- Activity diagram is another important diagram in UML to describe the dynamic aspects of the system.
- Activity diagram is basically a flowchart to represent the flow from one activity to another activity. The activity can be described as an operation of the system.
- The control flow is drawn from one operation to another. This flow can be sequential, branched, or concurrent. Activity diagrams deal with all type of flow control by using different elements such as fork, join, etc.
- The purpose of an activity diagram can be described as –
 - Draw the activity flow of a system.
 - Describe the sequence from one activity to another.
 - Describe the parallel, branched and concurrent flow of the system.

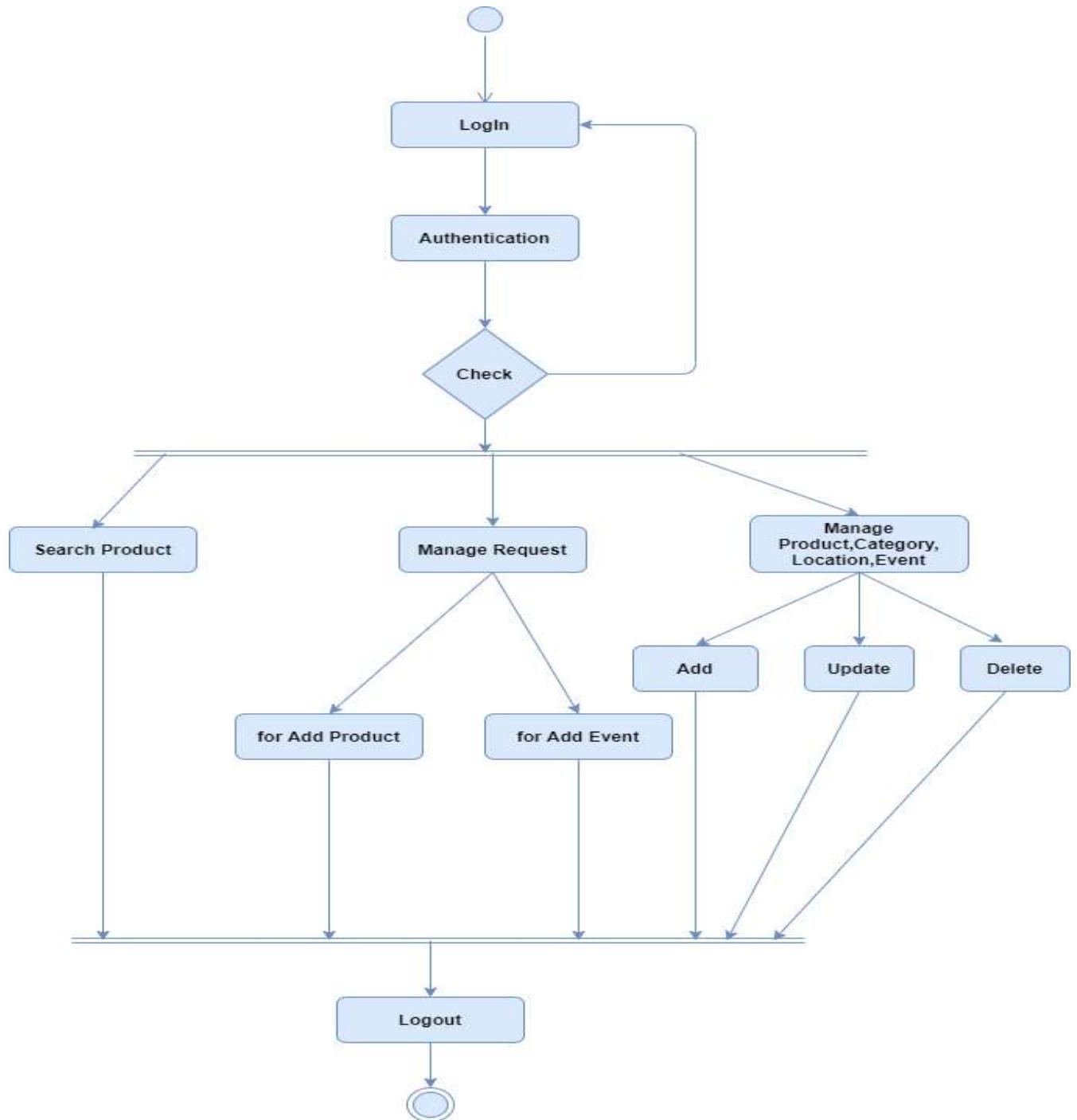


Figure 4.4 Activity of Admin

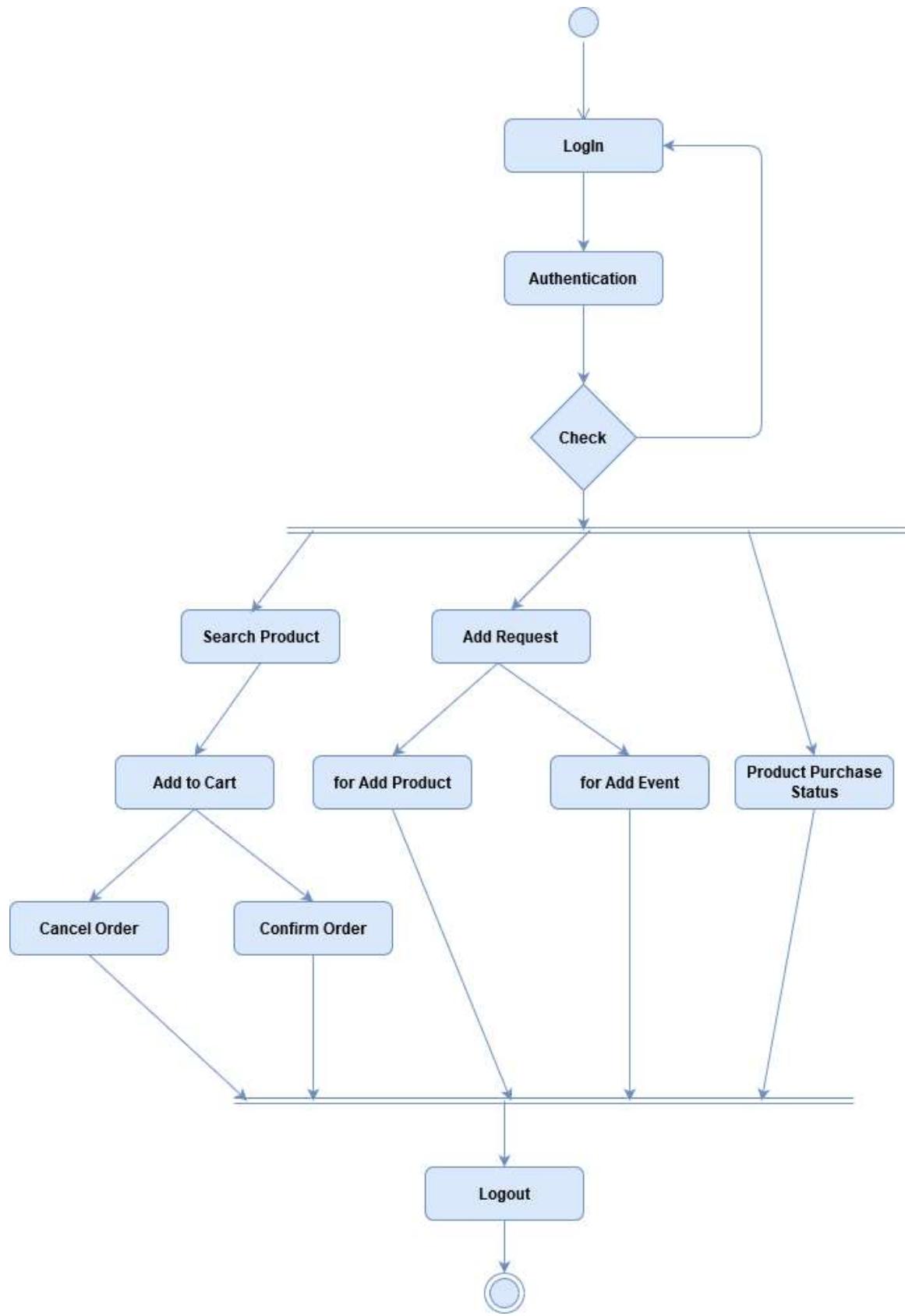


Figure 4.5 Activity of Registered User

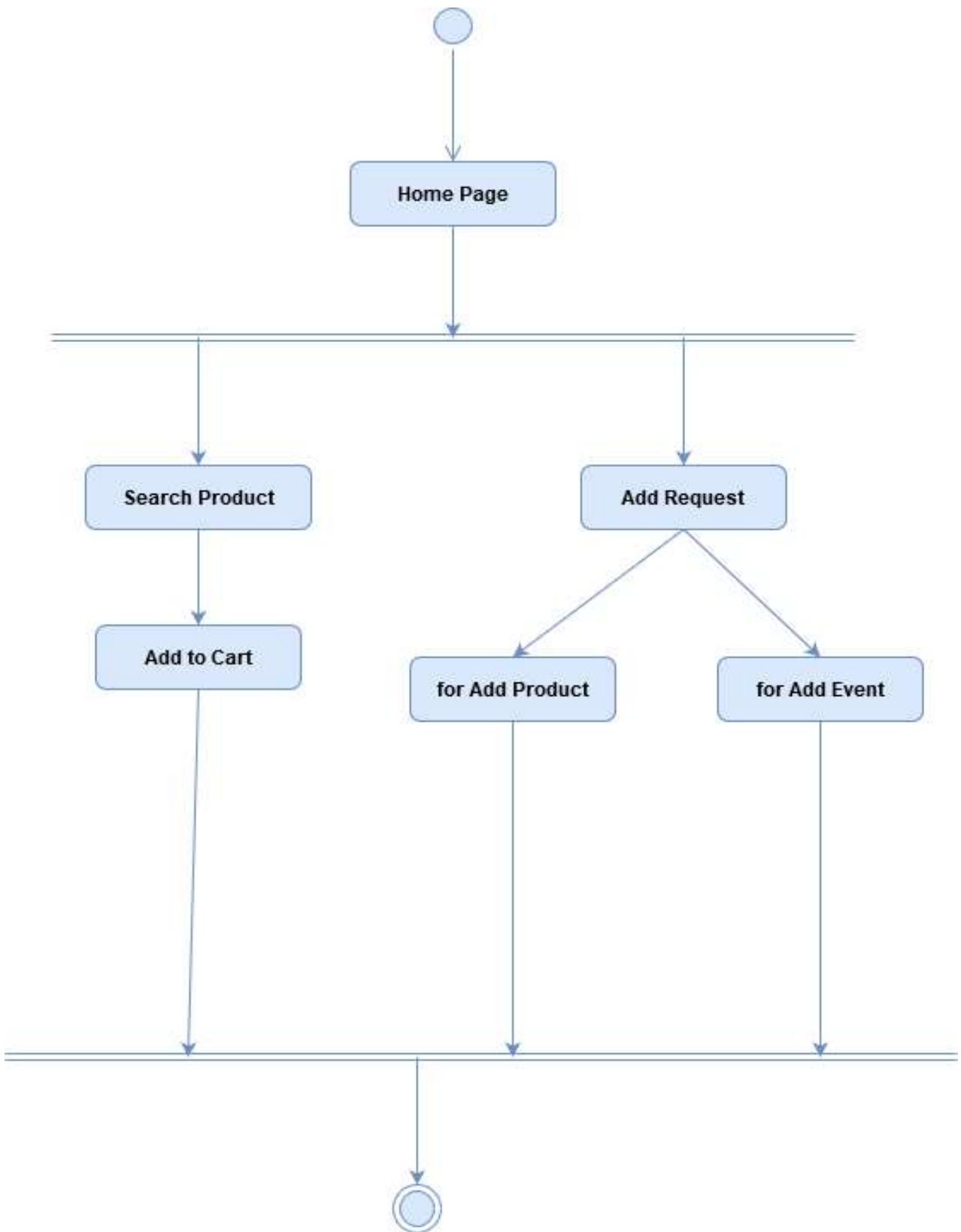


Figure 4.6 Activity of Visitor (Guest) User

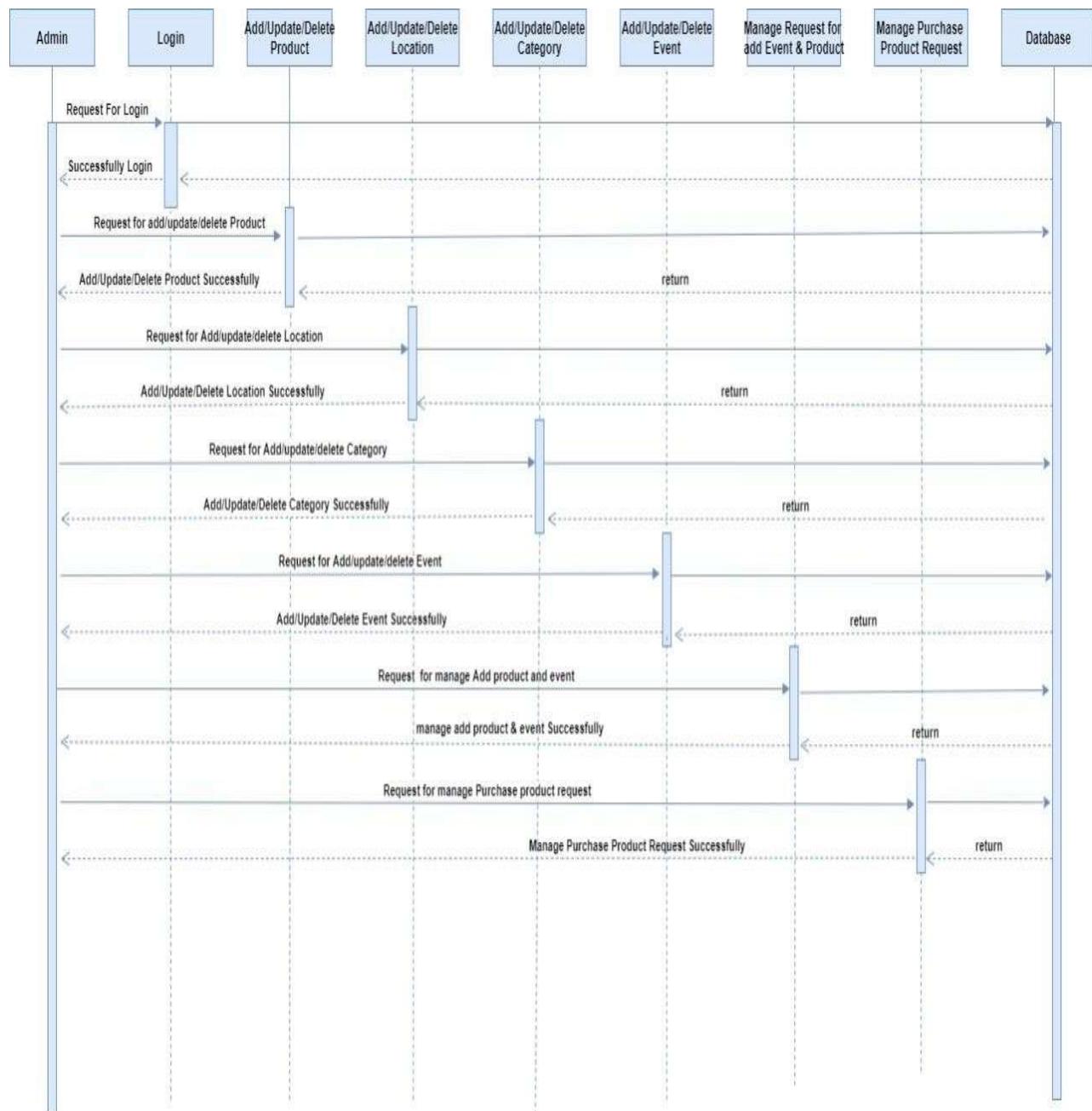
4.1.3 Sequence Diagram:

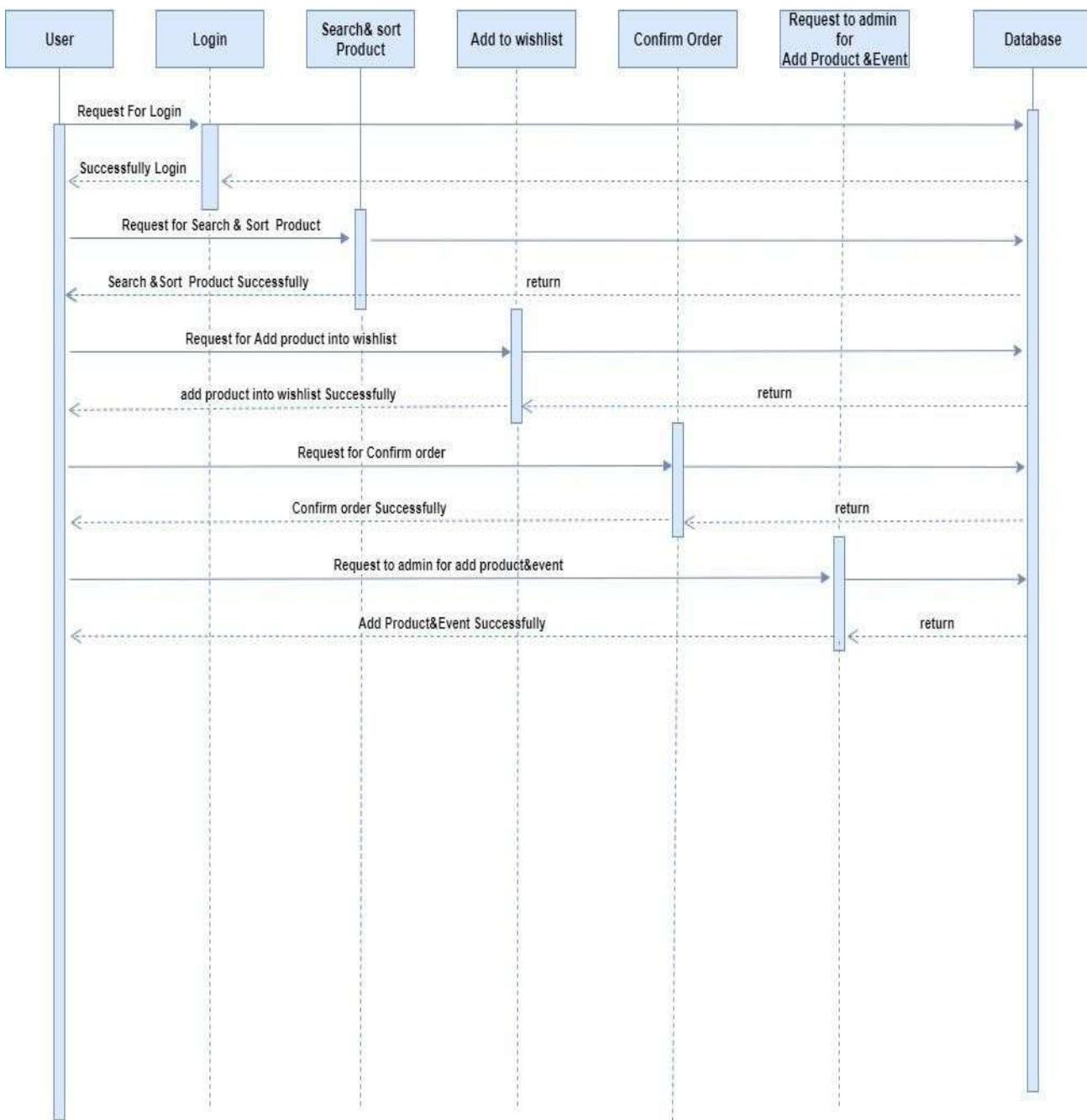
A sequence diagram is an interaction diagram that shows how objects operate with one another and in what order. It is a construct of a message sequence chart.

A sequence diagram shows object interactions arranged in time sequence. It depicts the objects and classes involved in the scenario and the sequence of messages exchanged between the objects needed to carry out the functionality of the scenario. Sequence diagrams are typically associated with use case realizations in the Logical View of the system under development. Sequence diagrams are sometimes called event diagrams or event scenarios.

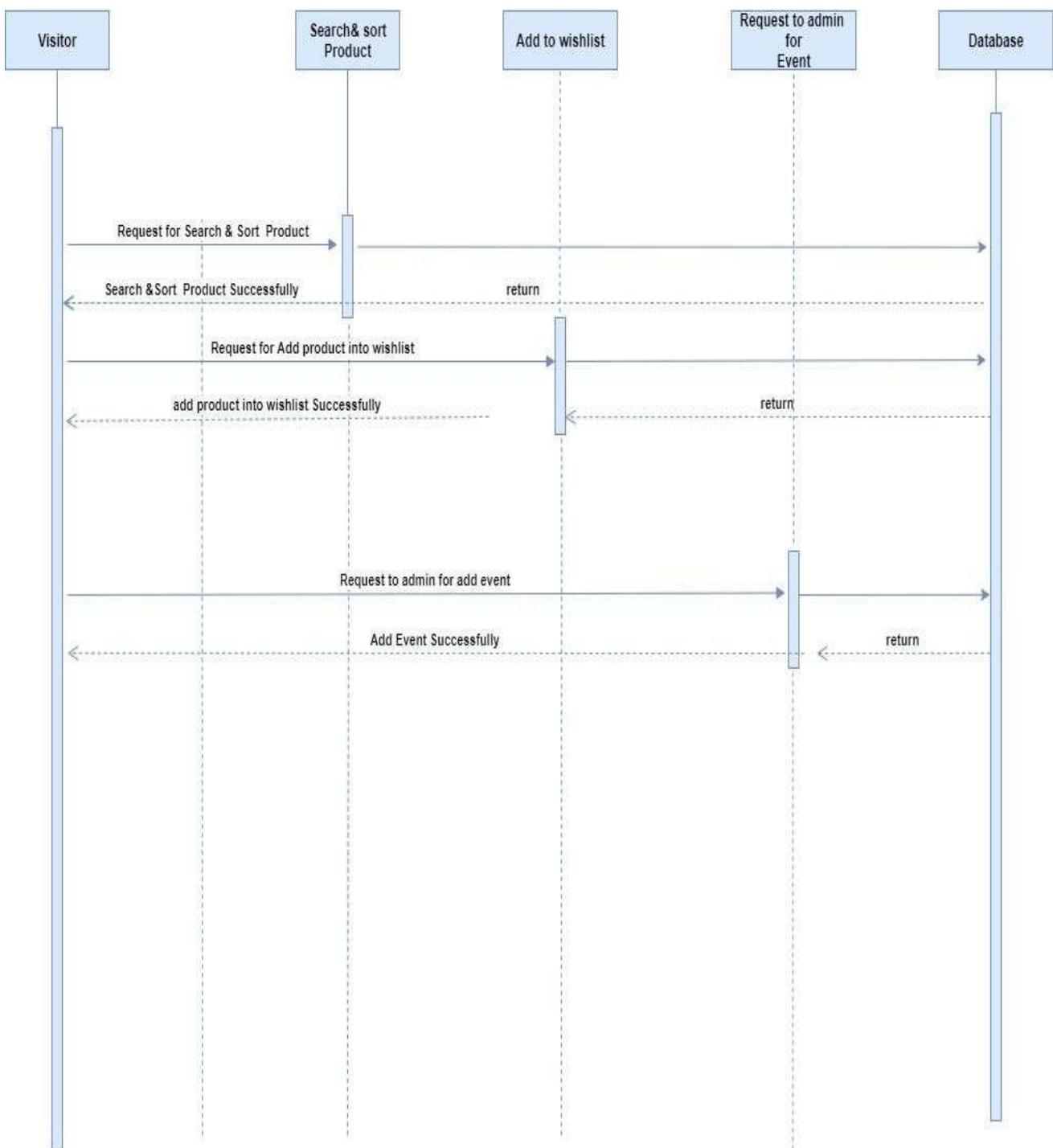
A sequence diagram shows, as parallel vertical lines (lifelines), different processes or objects that live simultaneously, and, as horizontal arrows, the messages exchanged between them, in the order in which they occur. This allows the specification of simple runtime scenarios in a graphical manner.

4.7 Sequence diagram for Admin



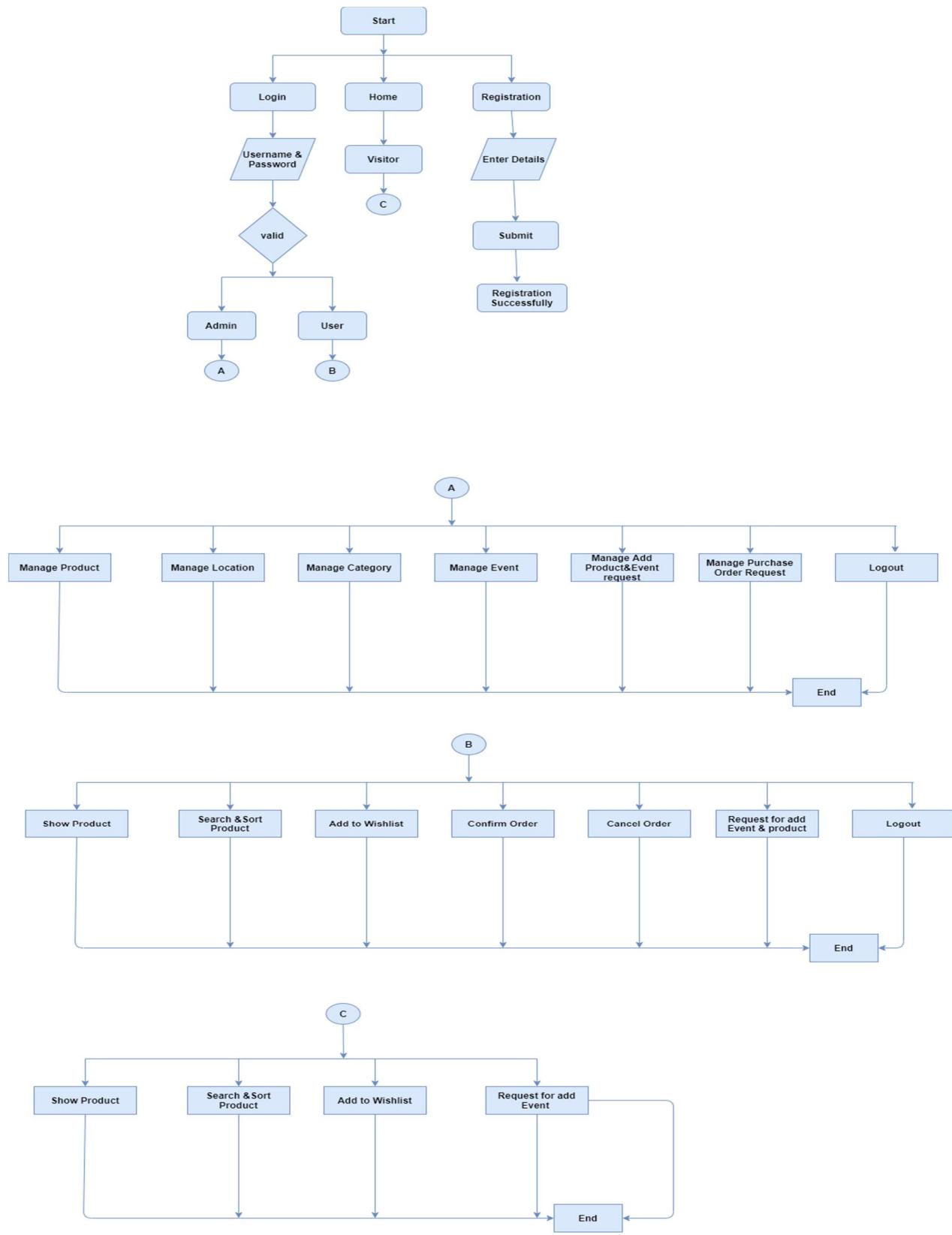


4.8 Sequence diagram for Registered User



4.9 Sequence diagram for Visitor (Guest) User

4.1.2 Systemflow Diagram



4.10 System Flow Diagram

4.2 Data Dictionary

“A **Data Dictionary** is a catalogue of elements in the system.” These elements centre on the data and they structured to meet user requirements and organization needs, the major elements are data flows, data stores and processes. The Data dictionary stores the details and description of these elements.

Why Data Dictionary is important?

- To manage the details in large systems.
- To communicate a common meaning for all system elements.
- To documents the failure of the system.
- To facilitate analysis of the details in order to evaluate characteristics and determine where the system changes should be made.
- To locate errors and omission in system.

What does Data Dictionary record?

The Data Dictionary contains two types of description for all data following through system

- **Data Elements**
 - ✓ Data Description
 - ✓ Aliases
 - ✓ Length
 - ✓ Data values
- **Data Structure**
 - ✓ Sequence Relationship
 - ✓ Selection Relationship

Column Name	Data Type	Allow Nulls
ProductId	int	<input type="checkbox"/>
ProductName	varchar(255)	<input type="checkbox"/>
QuantityId	int	<input type="checkbox"/>
Price	float	<input type="checkbox"/>
Description	varchar(1000)	<input checked="" type="checkbox"/>
Image	nvarchar(MAX)	<input checked="" type="checkbox"/>
EnteredBy	int	<input checked="" type="checkbox"/>
EnteredDate	datetime	<input checked="" type="checkbox"/>
UpdateBy	int	<input checked="" type="checkbox"/>
UpdateDate	datetime	<input checked="" type="checkbox"/>
		<input type="checkbox"/>

Figure tbl-1.Product Data Dictionary

Column Name	Data Type	Allow Nulls
CategoryId	int	<input type="checkbox"/>
CategoryName	varchar(255)	<input type="checkbox"/>
EnteredBy	int	<input checked="" type="checkbox"/>
EnteredDate	datetime	<input checked="" type="checkbox"/>
UpdatedBy	int	<input checked="" type="checkbox"/>
UpdatedDate	datetime	<input checked="" type="checkbox"/>
		<input type="checkbox"/>

Tbl 2 Category Data Dictionary

Column Name	Data Type	Allow Nulls
LocationId	int	<input type="checkbox"/>
CountryId	int	<input type="checkbox"/>
StateId	int	<input type="checkbox"/>
CityId	int	<input type="checkbox"/>
Address	varchar(255)	<input type="checkbox"/>
Landmark	varchar(255)	<input type="checkbox"/>
Pincode	bigint	<input type="checkbox"/>
EnteredBy	int	<input checked="" type="checkbox"/>
EnteredDate	datetime	<input checked="" type="checkbox"/>
UpdatedBy	int	<input checked="" type="checkbox"/>
UpdatedDate	datetime	<input checked="" type="checkbox"/>
		<input type="checkbox"/>

Tbl-3 Location Data Dictionary

	Column Name	Data Type	Allow Nulls
PK	EventId	int	<input type="checkbox"/>
	EventName	varchar(255)	<input type="checkbox"/>
	EventType	varchar(100)	<input type="checkbox"/>
	StartDate	datetime	<input type="checkbox"/>
	EndDate	datetime	<input type="checkbox"/>
	Description	varchar(1000)	<input checked="" type="checkbox"/>
	EventImage	nvarchar(MAX)	<input checked="" type="checkbox"/>
	CreatedBy	int	<input checked="" type="checkbox"/>
	CreatedDate	datetime	<input checked="" type="checkbox"/>
	City	varchar(255)	<input checked="" type="checkbox"/>
	State	varchar(255)	<input checked="" type="checkbox"/>
	Country	varchar(255)	<input checked="" type="checkbox"/>
			<input type="checkbox"/>

tbl-4 Event Data Dictionary

	Column Name	Data Type	Allow Nulls
PK	CategoryMapId	int	<input type="checkbox"/>
	CategoryId	int	<input type="checkbox"/>
	ProductId	int	<input type="checkbox"/>
			<input type="checkbox"/>

Tbl-5 Product-Category Map Data Dictionary

	Column Name	Data Type	Allow Nulls
PK	LocationMapId	int	<input type="checkbox"/>
	LocationId	int	<input type="checkbox"/>
	ProductId	int	<input type="checkbox"/>
			<input type="checkbox"/>

Tbl-6 Product-Location Map Data Dictionary

	Column Name	Data Type	Allow Nulls
PK	QuantityId	int	<input type="checkbox"/>
	QuantityAvl	int	<input type="checkbox"/>
	EnteredBy	int	<input checked="" type="checkbox"/>
	EnteredDate	datetime	<input checked="" type="checkbox"/>
	UpdatedBy	int	<input checked="" type="checkbox"/>
	UpdatedDate	datetime	<input checked="" type="checkbox"/>
			<input type="checkbox"/>

Tbl-7 Product-Quantity Data Dictionary

	Column Name	Data Type	Allow Nulls
PK	OrderId	int	<input type="checkbox"/>
	ProductId	int	<input type="checkbox"/>
	UserId	int	<input type="checkbox"/>
	Quantity	int	<input type="checkbox"/>
	Amount	float	<input type="checkbox"/>
	OrderStatus	int	<input type="checkbox"/>
	OrderDate	datetime	<input type="checkbox"/>
	EnteredBy	int	<input checked="" type="checkbox"/>
	EnteredDate	datetime	<input checked="" type="checkbox"/>
	UpdatedBy	int	<input checked="" type="checkbox"/>
	UpdatedDate	datetime	<input checked="" type="checkbox"/>
			<input type="checkbox"/>

Tbl-8 Order Details Data Dictionary

	Column Name	Data Type	Allow Nulls
PK	CartId	int	<input type="checkbox"/>
	ProductId	int	<input type="checkbox"/>
	ProductName	nvarchar(100)	<input type="checkbox"/>
	ProductCategory	nvarchar(100)	<input type="checkbox"/>
	ProductDescription	nvarchar(200)	<input checked="" type="checkbox"/>
	ProductImage	nvarchar(100)	<input type="checkbox"/>
	ProductPrice	bigint	<input type="checkbox"/>
	TotalPrice	bigint	<input type="checkbox"/>
	AvlQuantity	int	<input type="checkbox"/>
	AddQuantity	int	<input type="checkbox"/>
	EnteredBy	int	<input type="checkbox"/>
	EnteredDate	datetime	<input type="checkbox"/>
	UpdateBy	int	<input type="checkbox"/>
	UpdateDate	datetime	<input type="checkbox"/>
			<input type="checkbox"/>

Tbl-9 Product-Cart Details Data Dictionary

	Column Name	Data Type	Allow Nulls
▶	PurchaseId	int	<input type="checkbox"/>
	FirstName	nvarchar(50)	<input type="checkbox"/>
	lastName	nvarchar(50)	<input type="checkbox"/>
	address	nvarchar(150)	<input type="checkbox"/>
	city	nvarchar(50)	<input type="checkbox"/>
	state	nvarchar(50)	<input type="checkbox"/>
	country	nvarchar(50)	<input type="checkbox"/>
	pincode	int	<input type="checkbox"/>
	email	nvarchar(50)	<input type="checkbox"/>
	number	bigint	<input type="checkbox"/>
	EnteredBy	int	<input type="checkbox"/>
	EnteredDate	datetime	<input type="checkbox"/>
	ProductId	int	<input type="checkbox"/>
	ProductName	nvarchar(50)	<input type="checkbox"/>
	ProductCategory	nvarchar(50)	<input type="checkbox"/>
	ProductDescription	nvarchar(150)	<input checked="" type="checkbox"/>
	ProductImage	nvarchar(50)	<input type="checkbox"/>
	ProductPrice	bigint	<input type="checkbox"/>
	TotalPrice	bigint	<input type="checkbox"/>
	AvlQuantity	int	<input type="checkbox"/>
	AddQuantity	int	<input type="checkbox"/>
	Status	nvarchar(50)	<input type="checkbox"/>
			<input type="checkbox"/>

Tbl-10 Product-Checkout Details Data Dictionary

Column Name	Data Type	Allow Nulls
UserId	int	<input type="checkbox"/>
RoleId	int	<input type="checkbox"/>
FirstName	varchar(255)	<input type="checkbox"/>
LastName	varchar(255)	<input type="checkbox"/>
Email	varchar(255)	<input type="checkbox"/>
Password	varchar(255)	<input type="checkbox"/>
ContactNo	bigint	<input type="checkbox"/>
Address	varchar(500)	<input type="checkbox"/>
IsActive	bit	<input type="checkbox"/>
		<input type="checkbox"/>

Tbl-11 User Details Data Dictionary

Column Name	Data Type	Allow Nulls
RoleId	int	<input type="checkbox"/>
RoleName	varchar(255)	<input type="checkbox"/>
		<input type="checkbox"/>

Tbl-12 User-Roles Data Dictionary

Column Name	Data Type	Allow Nulls
CityId	int	<input type="checkbox"/>
StateId	int	<input checked="" type="checkbox"/>
CityName	varchar(50)	<input checked="" type="checkbox"/>
		<input type="checkbox"/>

Tbl-13 Location-City Details Data Dictionary

Column Name	Data Type	Allow Nulls
StateId	int	<input type="checkbox"/>
CountryId	int	<input checked="" type="checkbox"/>
StateName	varchar(50)	<input checked="" type="checkbox"/>
		<input type="checkbox"/>

Tbl-14 Location-State Details Data Dictionary

	Column Name	Data Type	Allow Nulls
PK	CountryId	int	<input type="checkbox"/>
	CountryName	varchar(50)	<input checked="" type="checkbox"/> <input type="checkbox"/>

Tbl-15 Location-Country Details Data Dictionary

	Column Name	Data Type	Allow Nulls
PK	InquiryId	int	<input type="checkbox"/>
	Name	varchar(255)	<input type="checkbox"/>
	InquiryTitle	varchar(255)	<input type="checkbox"/>
	Inquiry	varchar(1000)	<input type="checkbox"/>
	Email	varchar(255)	<input type="checkbox"/>
	ContactNo	bigint	<input type="checkbox"/>
	EventName	varchar(255)	<input type="checkbox"/>
	StartDate	datetime	<input type="checkbox"/>
	EndDate	datetime	<input type="checkbox"/>
	Description	varchar(1000)	<input checked="" type="checkbox"/>
	Location	varchar(255)	<input type="checkbox"/>
			<input type="checkbox"/>

Tbl-16 Event-Inquiry Data Dictionary

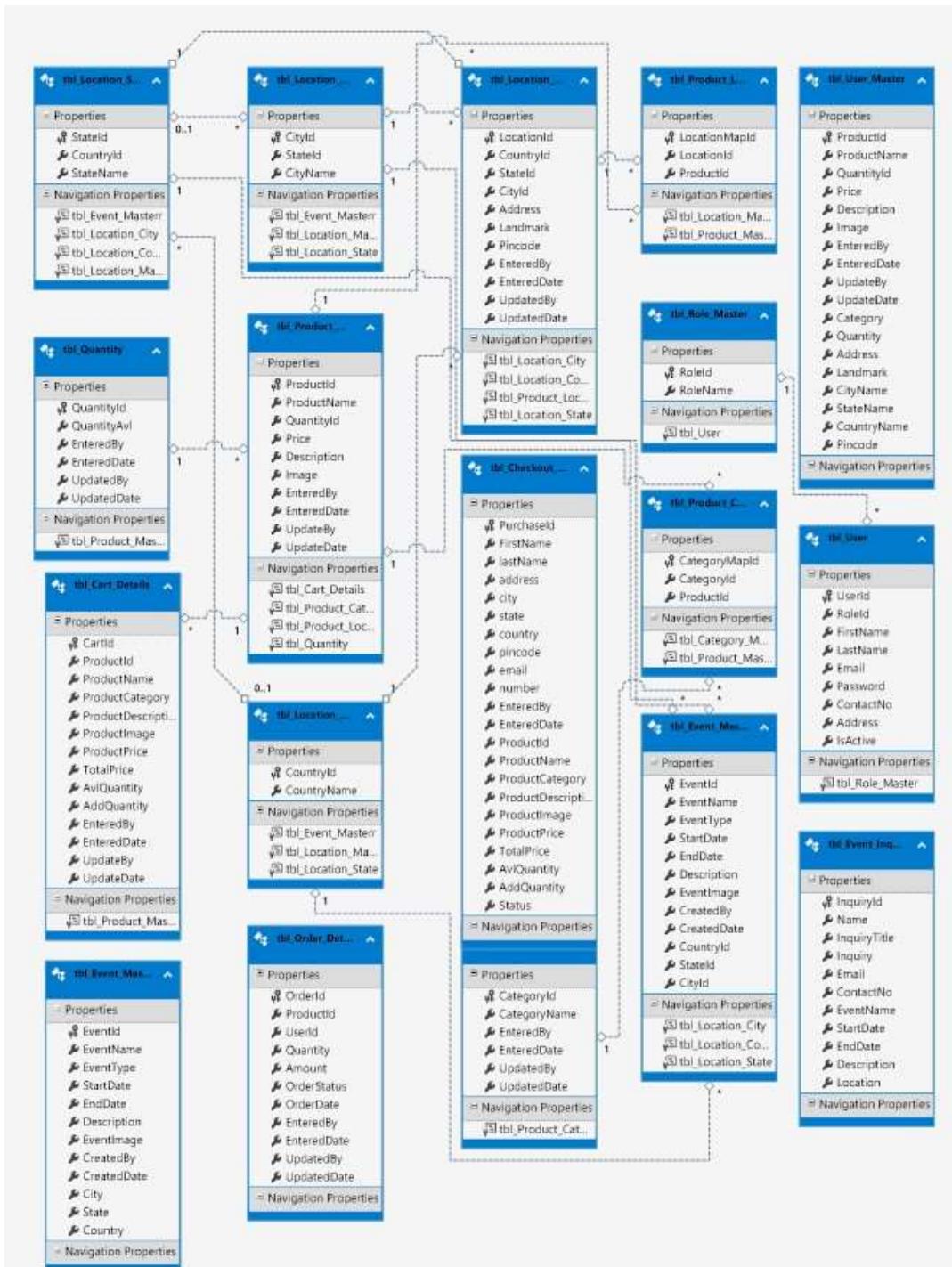
	Column Name	Data Type	Allow Nulls
	ErrorId	uniqueidentifier	<input type="checkbox"/>
	Application	nvarchar(60)	<input type="checkbox"/>
	Host	nvarchar(50)	<input type="checkbox"/>
	Type	nvarchar(100)	<input type="checkbox"/>
	Source	nvarchar(60)	<input type="checkbox"/>
	Message	nvarchar(500)	<input type="checkbox"/>
	[User]	nvarchar(50)	<input type="checkbox"/>
	StatusCode	int	<input type="checkbox"/>
	TimeUtc	datetime	<input type="checkbox"/>
	Sequence	int	<input type="checkbox"/>
			<input type="checkbox"/>

Tbl-17 Error Log Data Dictionary

4.3.7 Class Diagram

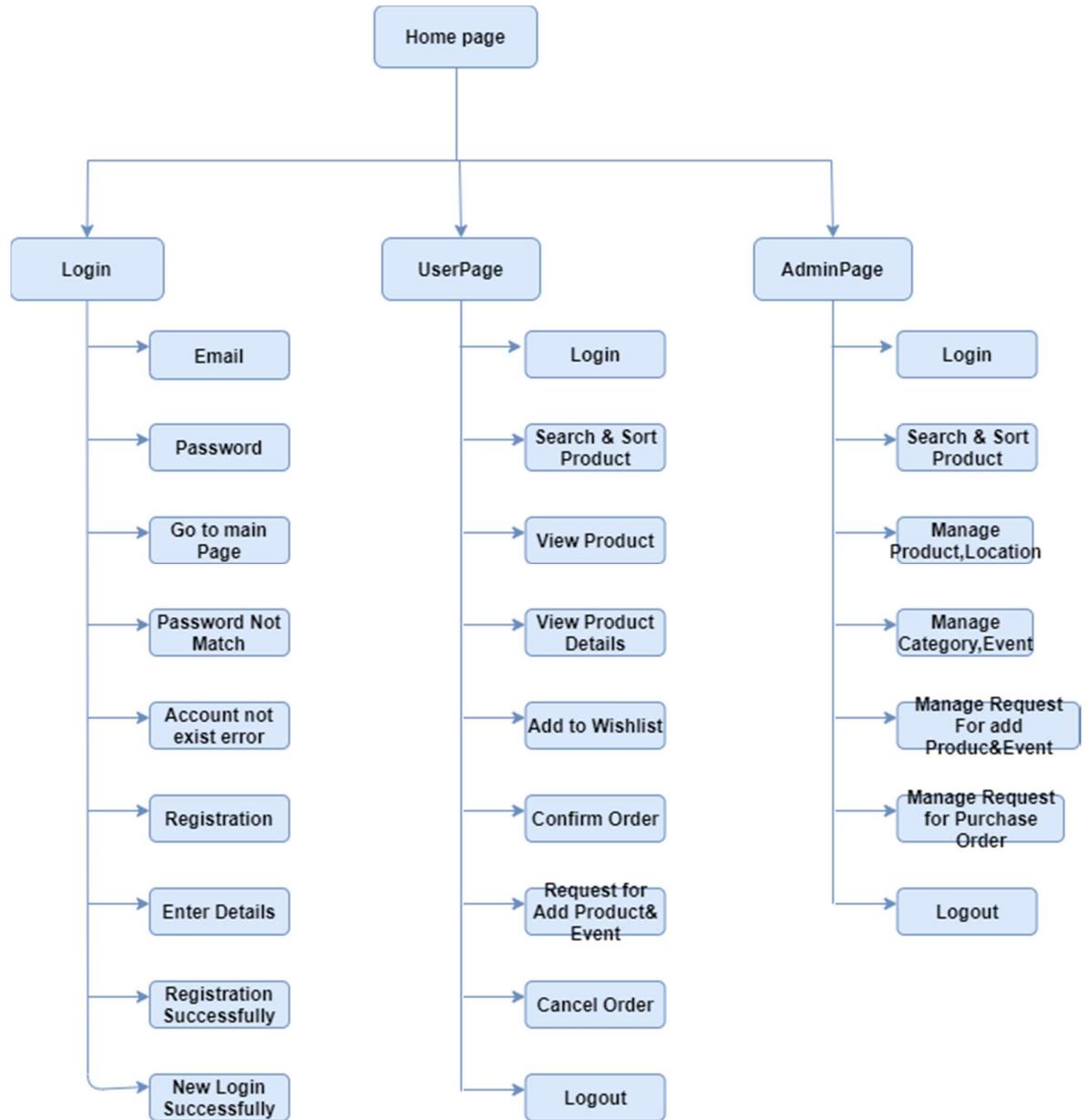
- Class diagram is a static diagram. It represents the static view of an application. Class diagram is not only used for visualizing, describing, and documenting different aspects of a system but also for constructing executable code of the software application.
- Class diagram describes the attributes and operations of a class and also the constraints imposed on the system. The class diagrams are widely used in the modelling of object oriented systems because they are the only UML diagrams, which can be mapped directly with object-oriented languages.
- Class diagram shows a collection of classes, interfaces, associations, collaborations, and constraints. It is also known as a structural diagram.
- The purpose of the class diagram can be summarized as –
 - Analysis and design of the static view of an application.
 - Describe responsibilities of a system.
 - Base for component and deployment diagrams.

Forward and reverse engineering



4.11Table Relation Sche

4.4 System Navigation



4.12 System Navigation Diagram

CHAPTER – 5 –Input Output Design

- ✓ A user guide or user's guide, also commonly known as a manual, is a technical communication document intended to give assistance to people using a particular system. It is usually written by a technical writer, although user guides are written by programmers, product or project managers, or other technical staff, particularly in smaller companies.
- ✓ User guides are most commonly associated with electronic goods, web portals, computer hardware and software.
- ✓ Our user guides contain both a written guide and the associated images. In the case of our application, it is usual to include screenshots of how the program should look. The language used is matched to the intended audience.

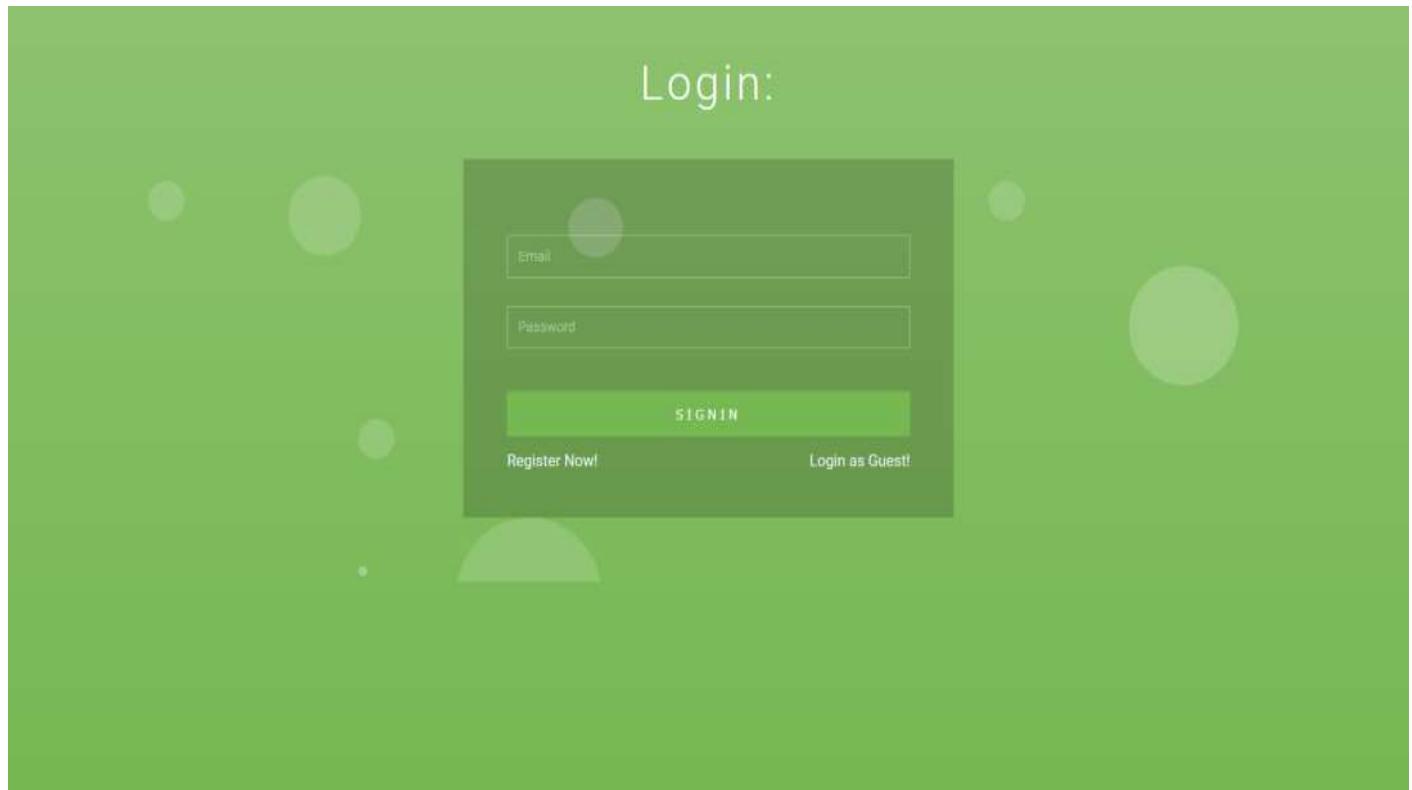
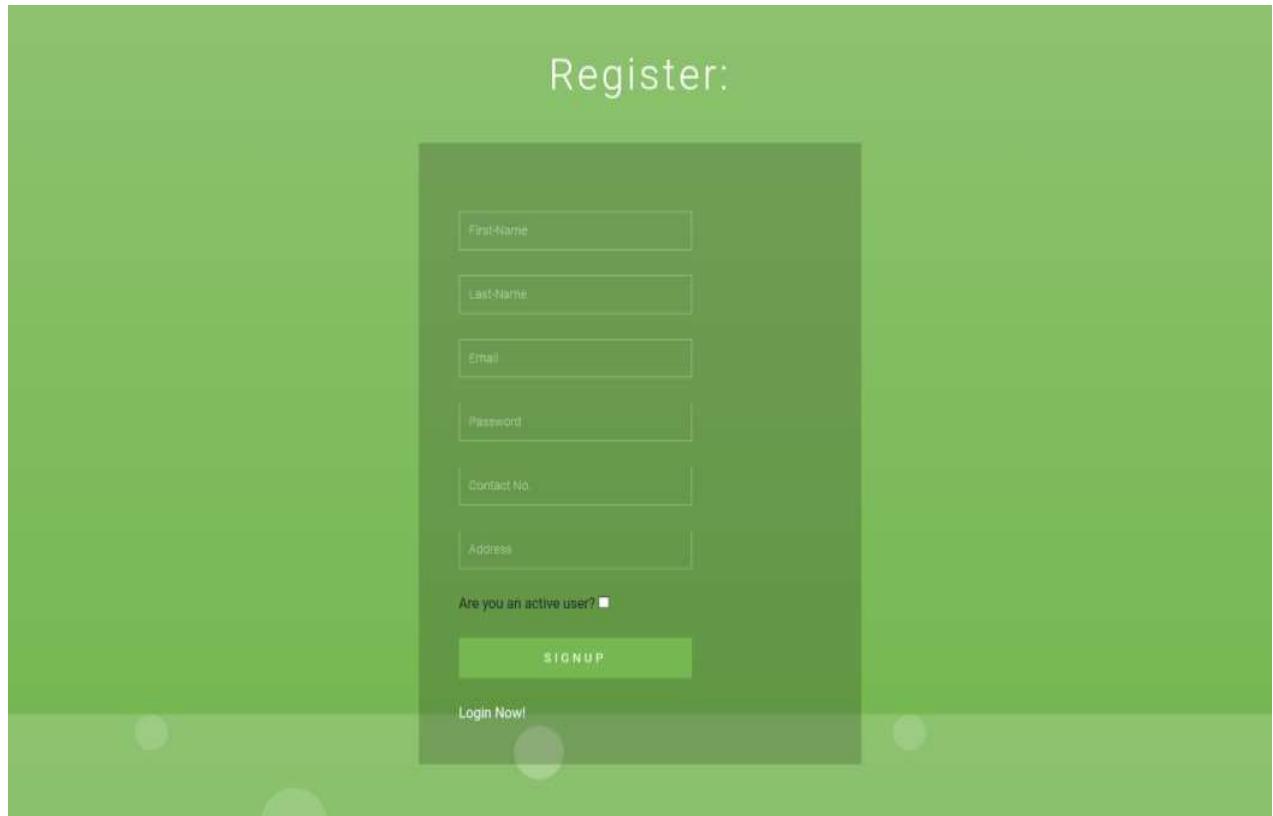


Figure 5.1 Login Page

Figure 5.2 Registration Page



ProductList

[Add Product](#)

Search..

Product Name	Quantity	Category	Price	Description	Image	Country	State	City	
JBL 420	45	Headphone	5999	Headphone		India	Gujarat	Surat	Edit Details Delete
Sony Bravia 4k	456	TV	56666	TV		India	Gujarat	Ahmedabad	Edit Details Delete
Oneplus 8	125	Mobile	40000	Mobile		India	Gujarat	Surat	Edit Details Delete
Oneplus 7 Pro	125	Mobile	35999	Mobile		India	Gujarat	Surat	Edit Details Delete

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Figure 5.3 Admin Dashboard Page

DEMO SITE

HOME PRODUCTS

SEARCH

HOME PRODUCT ABOUT CONTACT

Featured Products

Our Products

For far away, behind the word mountains, far from the countries Vokalia and Consonantia.

Search by ProductName... Search by CategoryName... Search by Location...

JBL 420 HEADPHONE \$5999 SONY BRAVIA 4K TV \$60000 ONEPLUS 8 MOBILE \$40000 ONEPLUS 7 PRO MOBILE \$30000

Top Categories:
Enjoy the day of every home
[Shop now](#)

Mobile TV Laptop Headphones

Rear Price For You

Deal of the day

Quality over Quantity makes more control
Intelligence Everywhere

Hp Thinkpad 230
\$1399 now \$799 only

-189 DAYS 19 HOURS 57 MINUTES 27 SECONDS

Testimony

Our satisfied customer says

For far away, behind the word mountains, far from the countries Vokalia and Consonantia, there live the blind texts. Separated they live in

For far away, behind the word mountains, far from the countries Vokalia and Consonantia, there live the blind texts.
Garrett Smith SYSTEM ANALYST

For far away, behind the word mountains, far from the countries Vokalia and Consonantia, there live the blind texts.
Garrett Smith MARKETING MANAGER

For far away, behind the word mountains, far from the countries Vokalia and Consonantia, there live the blind texts.
Garrett Smith INTERFACE DESIGNER

mi Apple OnePlus JBL SONY

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Products
For far away, behind the word mountains, far from the countries Vokalia and Consonantia.

Menu
Shop About Journal Contact Us

Help
Shipping Information FAQ Returns & Exchange Contact Terms & Conditions Privacy Policy

Have a Question?
1234 Folsom St, Mountain View, California, USA
+1 234 3220 210
info@yourdomain.com

[Twitter](#) [Facebook](#) [Instagram](#)

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Figure 5.4 Product Portal Page

HELLO.GUEST  NO LOGIN  LOGIN | REGISTER

HOME PRODUCT ABOUT CONTACT 

PRODUCTS



Oneplus 8
\$40000
 Description: Mobile
 Category: Mobile
 Location: Surat,Nr. Surat, Surat, Gujarat, India. - 360005

- 1 +

125 Only Available

Add to Cart

Products

Related Products By Category

Far far away, behind the word mountains, far from the countries Vokalia and Consonantia



ONEPLUS 7 PRO
35999

Products

Related Products By Location

Far far away, behind the word mountains, far from the countries Vokalia and Consonantia



ONEPLUS 7 PRO
35999



JBL 420
5999

▲

Products	Menu	Help	Have a Question?
Far far away, behind the word mountains, far from the countries Vokalia and Consonantia.	Shop About Journal Contact Us	Shipping Information FAQs Returns & Exchange Contact Terms & Conditions Privacy Policy	203 Fake St. Mountain View, San Francisco, California, USA +1 392 3929 210 info@yourdomain.com

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Figure 5.5 Product Details Page

HELLO,GUEST

NO LOGIN

LOGIN | REGISTER

HOME CART

MY CART

	Product name	Price	Quantity	Total
	Oneplus 8 Mobile	40000	2	80000

< >

Cart Totals

Subtotal	80000
Delivery	0
Discount	0
TOTAL	80000

[Proceed to Checkout](#)



Products

Far far away, behind the word mountains, far from the countries Vokalia and Consonantia.

Menu

Shop
About
Journal
Contact Us

Help

Shipping Information
Returns & Exchange
Terms & Conditions
Privacy Policy

Have a Questions?

203 Falo St, Mountain View,
San Francisco, California, USA
+1 392 3929 210
info@yourdomain.com

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Figure 5.6 Product Cart Page



The image shows a laptop screen displaying a guest checkout interface. The top navigation bar includes 'HOME', 'CART', 'MY CART', 'NO LOGIN', and 'LOGIN | REGISTER'. The main content area is divided into two sections: 'Billing Details' on the left and 'Cart Total' on the right.

Billing Details:

- First Name: [Input field]
- Last Name: [Input field]
- Street Address: [Input field] (Note: House number and street name. No Login Found!)
- Town / City: [Input field]
- State: [Input field]
- Postcode: [Input field]
- Email Address: [Input field]
- Phone: [Input field]

A green button labeled 'Register First!' is positioned between the Street Address and Town/City fields.

Cart Total:

Subtotal	80000
Delivery	0
Discount	0
TOTAL	80000

Buttons:

- A large green button at the bottom right labeled 'Place an order'.
- A smaller button below it labeled 'See Products in Cart'.

Footer:

- Products:** Far far away, behind the word mountains, far from the countries Vokalia and Consonantia.
- Menu:** Shop, About, Journal, Contact Us.
- Help:** Shipping Information, Returns & Exchange, Terms & Conditions, Privacy Policy, FAQs, Contact.
- Have a Question?** 9203 Fak St, Mountain View, San Francisco, California, USA. +2 392 3929 210. info@yourdomain.com

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Figure 5.7 Product Checkout for Guest User Page

PRODUCTS

HOME PRODUCT ABOUT CONTACT 



Billing Details

		Cart Total	
First Name	Last Name	Subtotal	675999
Hemang	Gohel	Delivery	0
Street Address	Town / City	Discount	0
Corporate House	Rajkot	TOTAL	675999
State	Country		
Gujarat	India		
Postcode	Email Address	Place an order	
360005	hemanggohel4@gmail.com	See Products in Cart	
Phone	95288387		

Products	Menu	Help	Have a Question?
Far far away, behind the word mountains, far from the countries Vokalia and Consonantia.	Shop	Shipping Information FAQs	9203 Faka St, Mountain View, San Francisco, California, USA +2 392 3929 210 info@yourdomain.com
	About	Returns & Exchange Contact	
	Journal	Terms & Conditions	
	Contact Us	Privacy Policy	

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Figure 5.8 Product Checkout for Registered User Page

HELLO. HEMANG  HEMANGGOHOLE4@GMAIL.COM 

PRODUCTS 

PURCHASE STATUS
MY PRODUCTS

Status	Product name	Price	Quantity	Purchase Date-Time
 SUCCESS	Oneplus 8 Mobile	40000	1	27-Apr-20 8:58:58 PM
 SUCCESS	Oneplus 7 Pro Mobile	35999	1	27-Apr-20 8:59:03 PM
 pending	Oneplus 8 Mobile	40000	5	27-Apr-20 8:59:08 PM
 pending	JBL 4200 Headphone	5999	5	27-Apr-20 8:59:10 PM
 pending	Oneplus 7 Pro Mobile	35999	12345	09-May-20 2:43:12 PM
 pending	Oneplus 8 Mobile	40000	2	13-May-20 8:23:53 PM
 pending	Oneplus 8 Mobile	40000	3	14-May-20 12:00:18 PM

▲

Products
Far far away, behind the word mountains, far from the countries Vokalia and Consonantia.

Menu
[Shop](#) [About](#) [Journal](#) [Contact Us](#)

Help
[Shipping Information](#) [FAQs](#) [Returns & Exchange](#) [Contact](#) [Terms & Conditions](#) [Privacy Policy](#)

Have a Questions?
#203 Foko St. Mountain View,
San Francisco, California, USA
+1 392 3929 210
info@yourdomain.com

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Figure 5.9 Product Purchasement Status Page

HELLO,GUEST NO LOGIN

LOGIN | REGISTER Insert Product

Product Name

Category

Quantity

Price

Description

Image
 No file selected.

Address

Landmark

City

State

Country

Pincode

EnteredBy

EnteredDate
06/26/2020 18:31:39

Create

© 2020 - My ASP.NET Application

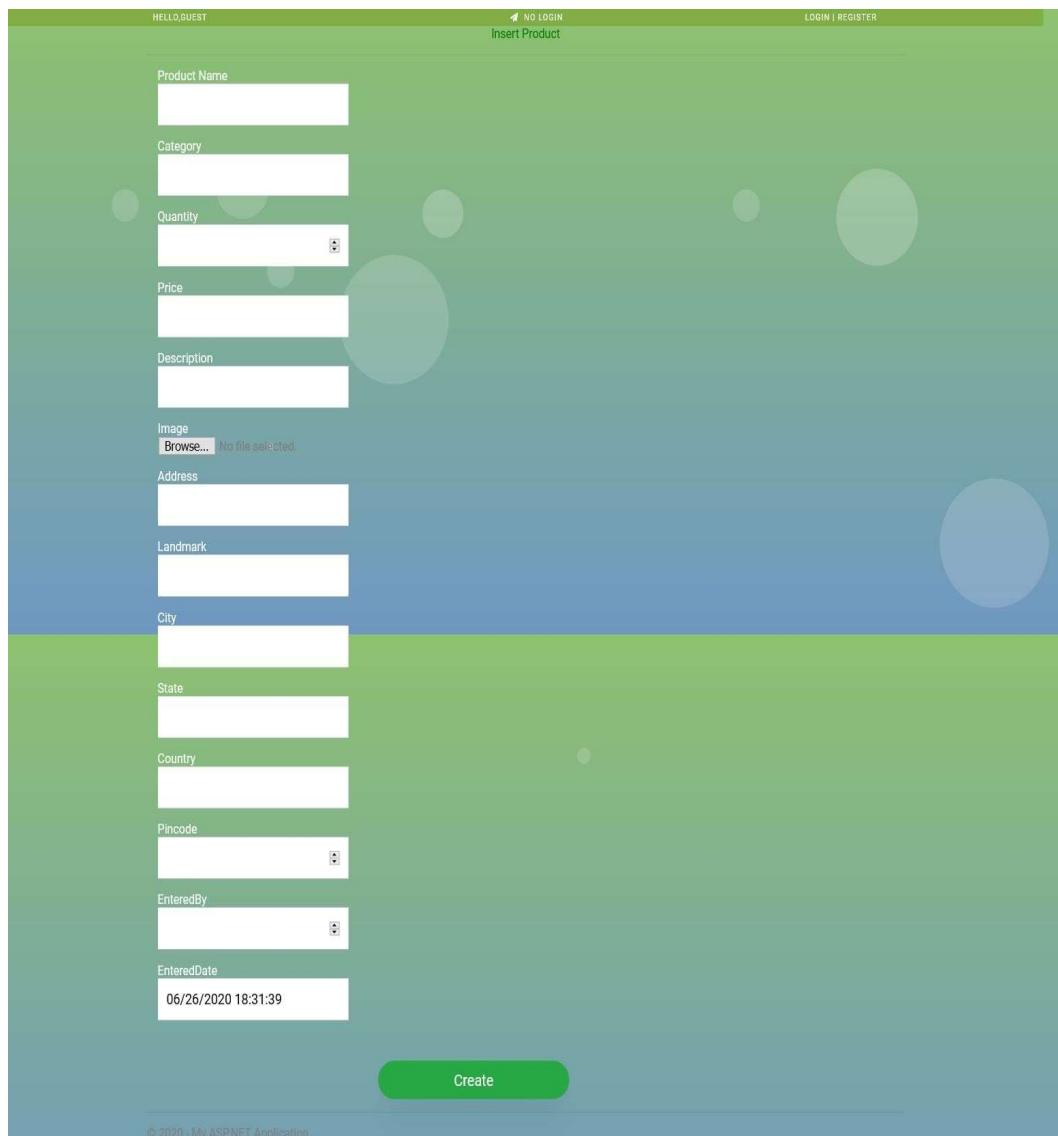


Figure 5.10 Request to Add New Product Page

HELLO,GUEST

NO LOGIN

Insert Event

LOGIN | REGISTER

Event

Type

Country
 Please select

State
 Please select

City
 Please select

Address

StartDate

EndDate

Description

EventImage
 Browse... No file selected.

CreatedBy

CreatedDate

Create

© 2020 - My ASP.NET Application

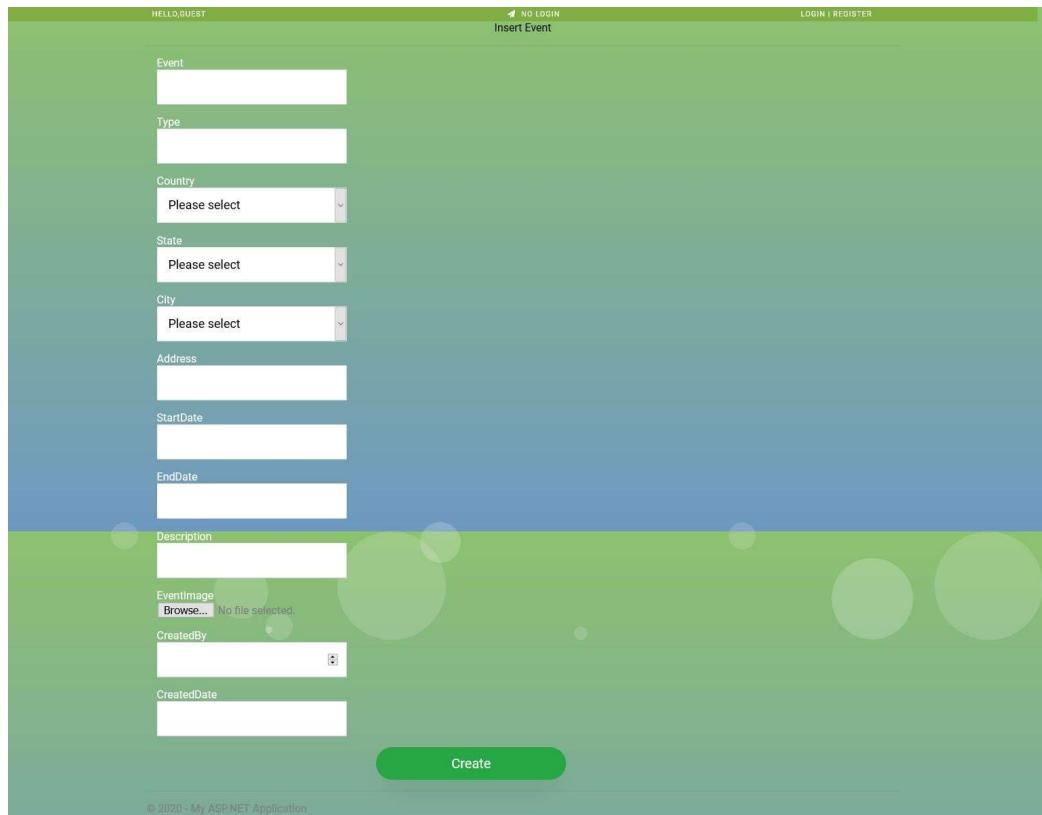


Figure 5.11 Request to Add New Event Page

HELLO HEM	HEMANGGOHEL@GMAIL.COM	LOG-OUT							
PRODUCTS	CATEGORY	LOCATION							
EVENT									
EVENT INQUIRY									
REQUEST									
ProductList									
Add Product									
<input type="text" value="Search.."/>									
Product Name	Quantity	Category	Price	Description	Image	Country	State	City	
JBL 420	45	Headphone	5999	Headphone		India	Gujarat	Surat	Edit Details Delete
Sony Bravia 4k	456	TV	56666	TV		India	Gujarat	Ahmedabad	Edit Details Delete
Oneplus 8	125	Mobile	40000	Mobile		India	Gujarat	Surat	Edit Details Delete
Oneplus 7 Pro	125	Mobile	35999	Mobile		India	Gujarat	Surat	Edit Details Delete

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Figure 5.12 Product-List with Edit, Details and Delete Page

HELLO. HEM	HEMANGOHEL@GMAIL.COM	LOG-OUT
PRODUCTS	CATEGORY	LOCATION
EVENT	EVENT INQUIRY	REQUEST
CategoryList		
Add Category		
<input type="text" value="Search.."/>		
Category Name	EnteredDate	
Mobile	27-Mar-20 7:45:58 PM	Edit Details Delete
TV	27-Mar-20 7:46:06 PM	Edit Details Delete
Laptop	27-Mar-20 7:46:15 PM	Edit Details Delete
Headphone	27-Mar-20 7:48:28 PM	Edit Details Delete
Fridge	27-Mar-20 7:48:31 PM	Edit Details Delete
Page 1 of 212»		
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Figure 5.13 Category-List with Edit, Details and Delete Page

HELLO. HEM	HEMANGOHEL@GMAIL.COM	LOG-OUT				
PRODUCTS	CATEGORY	LOCATION				
EVENT	EVENT INQUIRY	REQUEST				
LocationList						
Add Location						
<input type="text" value="Search.."/>						
Country	State	City	Address	Landmark	Pincode	
India	Gujarat	Ahmedabad	Bodakdev	Gateway Group	360005	Edit Details Delete
India	Gujarat	Surat	Surat	Surat	360005	Edit Details Delete

Figure 5.14 Location-List with Edit, Details and Delete Page

The screenshot shows a web application interface for managing events. At the top, there is a green header bar with the text "HELLO.HEM", the user's email "HEMANGGOHEL@GMAIL.COM", and "LOG-OUT" and "REQUEST" buttons. Below the header, a navigation menu includes links for "PRODUCTS", "CATEGORY", "LOCATION", "EVENT", and "EVENT INQUIRY". The main content area has a title "EventList" and a search bar labeled "Search...". A table displays a single event entry:

Event	Type	City	Country	State	StartDate	EndDate
Corono Lockdown Special	Discount Event	Rajkot	India	Gujarat	03-25-2020	03-29-2020

Below the table, there is a link "Edit | Details | Delete". At the bottom of the page, a copyright notice reads "© 2020 - My ASP.NET Application".

Figure 5.15 Event-List with Edit, Details and Delete Page

The screenshot shows a web application interface for managing event inquiries. At the top, there is a green header bar with the text "HELLO.HEM", the user's email "HEMANGGOHEL@GMAIL.COM", and "LOG-OUT" and "REQUEST" buttons. Below the header, a navigation menu includes links for "PRODUCTS", "CATEGORY", "LOCATION", "EVENT", and "EVENT INQUIRY". The main content area has a title "Event Inquiry List" and a search bar labeled "Search...". A table displays a single inquiry entry:

Name	Inquiry Title	Inquiry	Email	ContactNo	Event Name	Description	Address
Homang Gohel	Demo Inquiry1	Demo Inquiry	h@gmail.com	9512860387	Corono Lockdown Special	Demo	rajkot

Below the table, there is a link "Edit | Details | Delete". At the bottom of the page, a copyright notice reads "© 2020 - My ASP.NET Application".

Figure 5.16 Event-Inquiry-List with Edit, Details and Delete Page

HELLO.HEM HEMANGOHEL@GMAIL.COM LOG-OUT

Create

Insert Product Details

Product Name

Category

Quantity

Price

CountryId

StateId

CityId

Description

Image
 No file selected.

EnteredDate

[Back to List](#)

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Figure 5.17 Add Product Page (Same for Categories, Locations and Events)

Figure 5.18 Product Details Page (Same for Categories, Locations and Events)

HELLO. HEM LOG-OUT

HEMANGGOHEL@GMAIL.COM

Details

Product Details

Product Name	JBL 420
Quantity	1
Category	Headphone
Price	5999
Country	India
State	Gujarat
City	Surat
Description	Headphone
Image	

[Edit](#) | [Back to List](#)

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Figure 5.18 Product Details Page (Same for Categories, Locations and Events)

HELLO. HEM LOG-OUT

HEMANGGOHEL@GMAIL.COM

Edit

Edit Product Details

Product Name	<input type="text" value="JBL 420"/>
Category	<input type="text" value="Headphone"/>
Quantity	<input type="text" value="1"/> <input type="button" value=""/>
Price	<input type="text" value="5999"/>
CountryId	<input type="text" value="Select one"/> <input type="button" value=""/>
StateId	<input type="text" value="Select one"/> <input type="button" value=""/>
CityId	<input type="text" value="Select one"/> <input type="button" value=""/>
Description	<input type="text" value="Headphone"/>
Image	 <input type="button" value="Browse..."/> No file selected.
UpdateDate	<input type="text" value="06/26/2020 18:36:56"/>

[Save](#) | [Back to List](#)

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Figure 5.19 Edit Product Page (Same for Categories, Locations and Events)

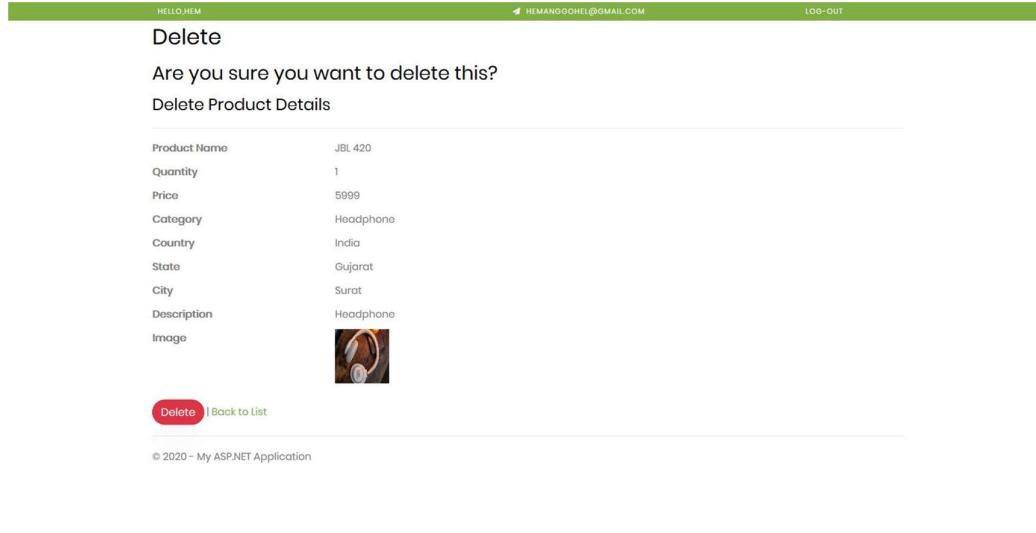


Figure 5.20 Delete Product Page (Same for Categories, Locations and Events)

Hello Hem		HEMANGGOHEL@GMAIL.COM		LOG-IN		REQUEST																																																																																																																																																																																																																															
PRODUCTS		CATEGORY		LOCATION		EVENT		EVENT INQUIRY																																																																																																																																																																																																																													
Request For User Purchase Product																																																																																																																																																																																																																																					
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Figure 5.21 Product Purchasement Request Page for Admin

HELLO. HEM LOG-OUT

[HEMANGGOHEL@GMAIL.COM](#)

[PRODUCTS](#) [CATEGORY](#) [LOCATION](#) [EVENT](#) [EVENT INQUIRY](#) [REQUEST](#)

Request For User Add Product

Product Name	Quantity	Price	City	State	Country	Description	Image
Lenovo Ideapad 310	2564	45000	Rajkot	Gujarat	India	High Performace Laptop	

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Figure 5.22 Add Product Request Page for Admin

HELLO. HEM LOG-OUT

[HEMANGGOHEL@GMAIL.COM](#)

[PRODUCTS](#) [CATEGORY](#) [LOCATION](#) [EVENT](#) [EVENT INQUIRY](#) [REQUEST](#)

Request For User Add Event

Event	Type	EventImage	StartDate	EndDate	Country	State	City
Corono Lockdown Special	Discount Event		03-25-2020	03-29-2020	India	Gujarat	Rajkot

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Figure 5.23 Add Event Request Page for Admin

Chapter 6 System Testing

Testing is a vital part during the course of software development. Testing helps us understand the flaws in the system and hence enhance the system for a better user experience. In the course of software development testing usually occupies anywhere between 20-40 % of the effort and resources. Software testing is both a discipline and a process. Though software testing is part of the software development process, it should not be considered part of software development. It is a separate discipline from software development. Software development is the process of coding functionality to meet defined end-user needs. Software testing is an iterative process of both validating functionalities, and, even more important, attempting to break the software. The iterative process of software testing consists of [6]:

- Designing tests
- Executing tests
- Identifying problems
- Getting problems fixed of the effort and resources.

6.1 TESTING PLAN

The testing sub-process includes the following activities in a phase dependent manner:

- Create Test Plans.
- Create Test Specifications.
- Review Test Plans and Test Specifications.
- Conduct tests according to the Test Specifications, and log the defects.
- Fix defects, if any.
- When defects are fixed continue from activity.

6.2 TESTING STRATEGY

Module Testing:

In a system each module is developed individually and each module is tested separately and the result is integrated. We have tested each small module like switching on the screen and switching it off again [6].

Integration Testing:

It is clear that certain errors, which are related to the integration of different program modules, cannot be detected by unit testing. Such errors only are detected by an integrated test. The process by which individual modules are put together to realize major sub sections and functions of a program is known as a system integration.

When tests are performed which exercises interfaces among modules this is known as integration. The number of instructions coded and tested or the number of functions or modules implemented and tested often measures the progress of IT [6].

Regression Testing:

After we made some changes in one module, we had to check whether older modules were working perfectly or not.

6.3 TESTING METHODS

White Box Testing

White-box Testing is a method of testing software that tests internal structures or workings of an application, as opposed to its functionality in white-box testing an internal perspective of the system, as well as programming skills, are used to design test cases. The tester chooses inputs to exercise paths through the code and determine the appropriate outputs. This is analogous to testing nodes in a circuit, e.g.in-circuit testing (ICT) [6].

White-box testing can be applied at the unit, integration, and system levels of the software testing process [6].

Although traditional testers tended to think of white-box testing as being done at the unit level, it is used for integration and system testing more frequently today. It can test paths within a unit, paths between units during integration, and between subsystems during a system– level test. Though this method of test design can uncover many errors or problems, it has the potential to miss unimplemented parts of the specification or missing requirements [6].

Black Box Testing

Black-box testing is a method of software testing that examines the functionality of an application without peering into its internal structures or workings (see white-box testing). This method of test can be applied to virtually every level of software testing: unit, integration, system and acceptance. It typically comprises most if not all higher-level testing, but can also dominate unit testing as well [6].

Code Cover

The way to make sure that you have got all the control flow covered is to cover all the paths in the program during the testing (via white-box testing). This implies that both branches are exercised for an ‘if’s statement, all branches are exercised for a case statement, the loop is taken once or multiple times as well as ignored for a while statement an all components of complicated logical expressions are exercised. This is called Path Testing. Branch Testing reports whether entire Boolean expression tested in control structures evaluated to both true and false.

Additionally, it includes coverage of switch statement cases, exception handlers and interrupts handlers. Path testing includes branch testing as it considers all possible combination of individual branch conditions. A

simpler version is Statement Testing which determines if each statement in the program has been executed at least once. The coverage via Path Testing includes the coverage via Statement Testing. Since Path Testing is extremely comprehensive it is costly, hence a viable minimum should be measuring Statement Testing coverage [6].

6.4 TEST CASES

Table 6.1 Login & Register Module

TEST CASE	TEST SCENARIO	EXPECTED RESULT	PASS/FAIL
01	Filling all the mandatory fields in login	Redirect to the dashboard	PASS
02	Invalid login credentials	Error message displayed	PASS
03	Keeping any field empty during login	Error message displayed	PASS
04	Filling all the mandatory fields in registration	Redirect to the login	PASS
05	Invalid registration credentials	Error message displayed	PASS
06	Keeping any field empty during registration	Error message displayed	PASS

Table 6.2 Admin Dashboard Module

TEST CASE	TEST SCENARIO	EXPECTED RESULT	PASS/FAIL
01	Create Products, Locations, Categories and Events	Add details to database	PASS
02	Edit Products, Locations, Categories and Events	Update details to database	PASS
03	Delete Products, Locations, Categories and Events	Remove details from database	PASS
04	Generate Logs and Reports	Show all logs and reports	PASS
05	Update System Settings	Change application configurations	PASS

Table 6.3 Registered User Portal Module

TEST CASE	TEST SCENARIO	EXPECTED RESULT	PASS/FAIL
01	Add Product to Cart(Wish list)	Add details to database	PASS
02	Purchase a Product	Add purchase details to database	PASS
03	Check Status of Product Purchasement	Return product purchasement status from database	PASS
04	Request to Add Product	Add details to database	PASS
05	Request to Add Event	Add details to database	PASS
06	Search Product By Categories and Locations	Return related products from database	PASS
07	On-click Product	Return details from database	PASS
08	Generate Logs and Reports	Show all logs and reports	PASS
09	Log-out	Log-out from portal & restrict to access.	PASS

Table 6.4 Guest User Portal Module

TEST CASE	TEST SCENARIO	EXPECTED RESULT	PASS/FAIL
01	Add Product to Cart(Wish list)	Add details to database	PASS
02	Request to Add Product	Add details to database	PASS
03	Request to Add Event	Add details to database	PASS
04	Search Product By Categories and Locations	Return related products from database	PASS
05	On-click Product	Return details from database	PASS
06	Generate Logs and Reports	Show all logs and reports	PASS

CHAPTER-7- SUMMARY

7.1 LIMITATIONS

- Proper internet connection is required to smoothly use web application.
- Current systems do not support return and replacement of products.
- Current systems do not provide functionality to cancel pre-requested orders.
- Current systems do not support payment gateway for product purchasement.
- Current systems do not provide functionality to share product details to others.

7.2 FUTURE ENHANCEMENT

- Pre-Requested Orders Cancellation can be implemented.
- Payment Gateway for Product Purchasement can also be added.
- Share Product Details to Others can be provided.
- User contact/complaint forum can be implemented.

7.3 CONCLUSION

This web application that we have developed is very useful to purchase a product according to their requirement they can search the category and location and get the data related their requirement. it is a process of promoting and selling a product to a customer, also it is defined as being the intermediary function between product development and increasing brand awareness. Most of the software development follows agile scrum model. It requires continues development, testing and publish. This web application eases the process of testing and deployment of software/applications. Also, this application gives functionality of interact with portal as guest user, guest can interact with system same as registered user except product purchasement. Admin can see logs, manage portals data, user access information, system configurations and reports of same.

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