INSTITUTE FOR ADVANCED COMPUTING AND SOFTWARE DEVELOPMENT AKURDI, PUNE

Documentation On

"ONLINE MOBILE SHOPPING SYSTEM"

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1. Introduction

Generally, for purchasing electronics like mobile everyone prefer to go to shop, so that they can make better choice out of available devices. But some people, due to time constraint as well as other constraint are not able to go to shop for purchasing mobiles.

The Online Mobile Shopping System is a web application is intended to provide complete solutions for vendors as well as customers through a single get way using the internet. It will enable vendors to sell their products, customer to browse through the shop and purchase them online without having to visiting the shop physically.

Document Purpose:

The internet boom and advancement in Information Technology has greatly influenced every aspect of living. This has also influenced the shopping experience. Our project is also concurrent to this situation. The Online Mobile Shopping System is developed for following purposes:

- **Mobile Shopping Service:**

  This allows customer to purchase mobile at ease of their house. This is boon for the people who have not time to actual go to shop and purchase the mobile. It will also give access to new mobiles which are launched recently.

- **Online Marketplace for Sellers:**

  This system allows seller to sell their products online. Thereby reducing their operating overheads and need to have a shop. Also it is easy for them to keep track of all their sale & managing inventory.

Problem Statement:

In existing scenario for shopping Mobile, it is required to go to shop and choose among limited options available at that place. It is not possible to everyone to go to shop for actual purchase. Therefore, this situation is need to be changed.

Also, in current scenario for seller to sell something he need to have shop. This will increase in their overheads like rent for shop, light bill etc. Hence, we have implemented our project in order to solve problems of both customers and sellers.

Product Scope:

To achieve the project objective, we required to perform several researches, this include areas ranging from business concept to computing field, choice pattern of customer while selecting particular device etc. The area cover include:

1. E-commerce industry: In this area we include choices pattern of the user according to different parameter according to their need like price, aesthetics, mobile belong to particular brand like apple etc.
2. J2EE technology to implement our objective through our application.
3. Customers as well as sellers who have mere knowledge of operating mobile can handle our application effectively without any disturbances.
4. As this is web app i.e., is implemented on web platform so that it is available for service 24*7 excluding server issue and updation of app.

Aims and Objective

Specific goals are:

- To create a web base platform for ease of buying of mobiles for potential customers with their utmost satisfaction.
- To help different sellers from different localities to sell their mobile anywhere without any overheads and ensuring profits for them.
- Create a proper environment for all by admin, by ensuring there is no bottle-necks in functionality of system.

2. Overall Description

Product perspective:

Existing system of purchasing of mobile is traditional. In this method for purchasing mobile you need to visit Store. It is possibility that the mobile you are looking for may or may not be available in that store. Also, if you purchase from shop there is possibility that you will get that mobile at more price than it deserves. Also, some seller may do fraudent activities.

So, in our platform we allow you to purchase mobile of your choice. Also, the mobile available to customer at discounted price. You need not need to take time out of your busy schedule for purchasing mobile for you. We are here to help you. Also, we are ensuring 100% customer protection from sellers in case of any fraudent activities by verifying them with their GST return. So ultimately, we are aiming at your full satisfaction.

Proposed System:

Our app provides features for all the customers, sellers and admin. The functionality for each of them is described below:

Customer management:

Customer can register, login, view mobiles, add mobiles to cart, make payment and will add review for his purchase on our platform.

Seller management:

Seller can register, login, add mobile for selling, view his added mobiles, manages his inventory, can sell mobiles and generate reports for his sale on our platform.

Admin management:

Admin has authority to manage all the sellers and customers.

Benefits of the Online Mobile Shopping System:

- This solution is fully flexible and functional.
- Ease of use.
- It saves lot of time and money.
- Allow seller to sale their mobiles by standardization
- Ensuring customer protection by verifying seller.
- Application acts as a shop which is open 24*7.
- Increases efficiency of the shopping by offering quality services to customer.
- It provides custom feature development and support with the application.

Actors and their characteristic:

Admin:

- Manage sellers
- Manage customers
- Managing mobiles
- Generate reports

Seller:

- Register/ Login account
- Logout
- Add Mobiles for selling
- Manage mobiles
- Process orders
- Generate reports

Customer:

- Register/ login
- Logout
- View all mobiles
- Add to cart
- Remove from Cart
- Place order

Operating Environment:

Server side:

- **Processor:** Intel® Core™ i3-5005U Processor
- **RAM:** Minimum 8GB
- **HDD:** Minimum 500GB Disk Space
- **OS:** Windows 10
- **Database:** MySQL

Client Side (minimum requirement):

- **Processor:** Intel Dual Core
- **HDD:** Minimum 80GB Disk Space
- **RAM:** Minimum 2GB
- **OS:** Windows 8,10
- **Browser:** Google Chrome

Design and Implementation constraints:

- The application will use Ajax, JavaScript, jQuery and css as main web technologies.
- HTTP and FTP protocols are used as communication protocols. FTP is used to upload the web application in live domain and the client can access it via HTTP protocol.
- Several types of validations make this web application a secured one and SQL Injections can also be prevented.
- Since Online Mobile Shopping system is a web-based application, internet connection must be established.
- The Online Mobile Shopping System will be used on PCs and will function via internet in any web browser.

3. Requirement Specification

External Interface Requirements:

User Interfaces:

- All the users will see the same page when they enter in this website. This page asks the users a username and a password.
- After being authenticated by correct username and password, user will be redirect to their corresponding profile where they can do various activities.
- The user interface will be simple and consistence, using terminology commonly understood by intended users of the system. The system will have simple interface, consistence with standard interface, to eliminate need for user training of infrequent users.

Hardware Interfaces:

- No extra hardware interfaces are needed.
- The system will use the standard hardware and data communication resources.
- This includes, but not limited to, general network connection at the server/hosting site, network server and network management tool.

Application Interfaces:

OS: Windows 7, Linux

Web Browser: The system is a web-based application; clients need a modern web browser such as Mozilla Firebox, Internet Explorer, Opera, and Chrome. The computer must have an Internet connection in order to be able to access the system.

Communications Interfaces:

- This system uses communication resources which includes but not limited to, HTTP protocol for communication with the web browser and web server and TCP/IP network protocol with HTTP protocol.
- This application will communicate with the database that holds all the booking information. Users can contact with server side through HTTP protocol by means of a function that is called HTTP Service. This function allows the application to use the data retrieved by server to fulfill the request fired by user.

4. System Design

Activity Diagram

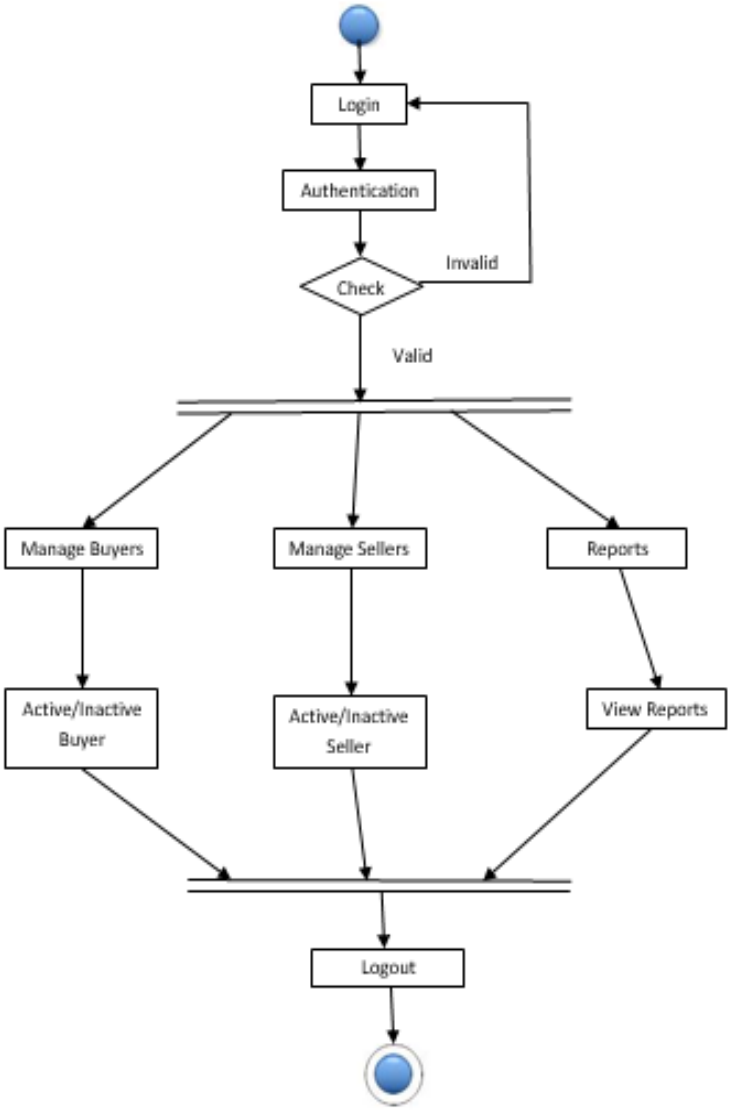

Fig. 1 Activity Diagram for Admin

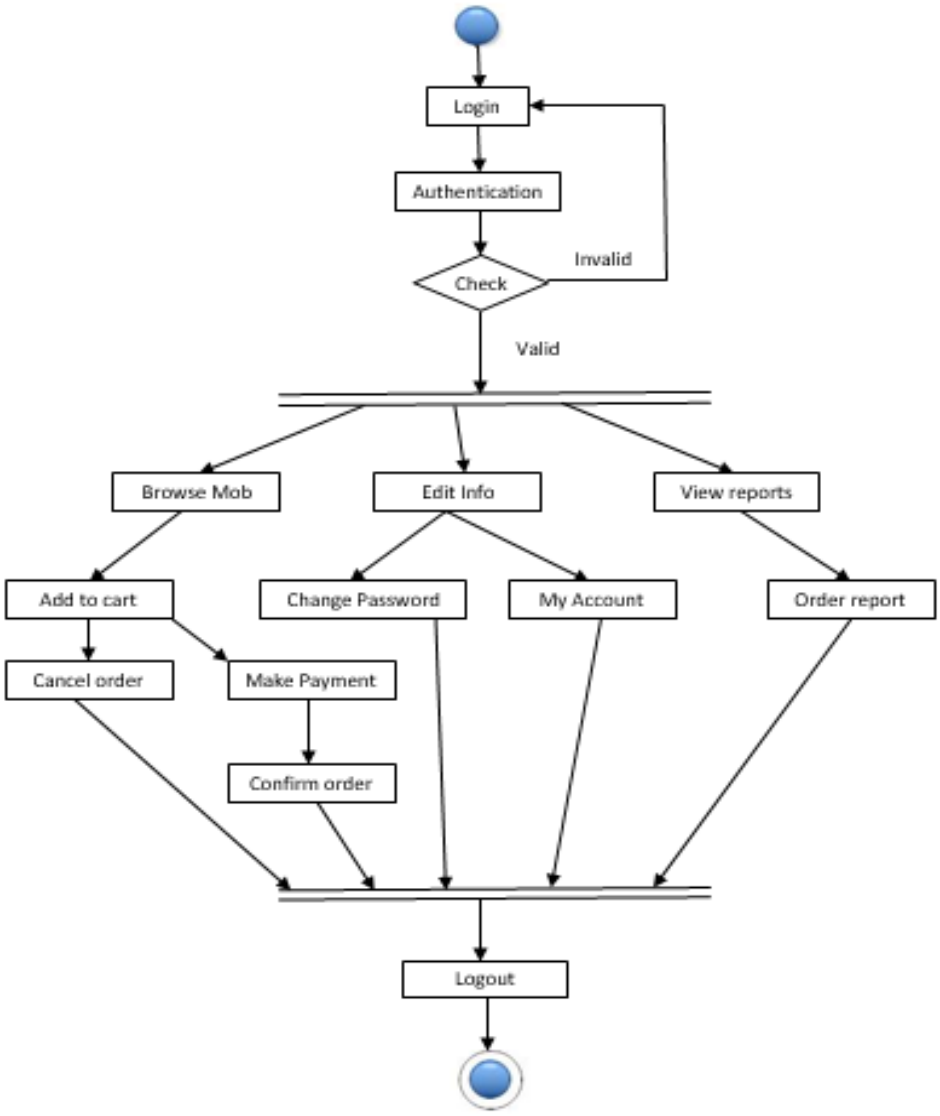

Fig 2. Activity Diagram for Customer

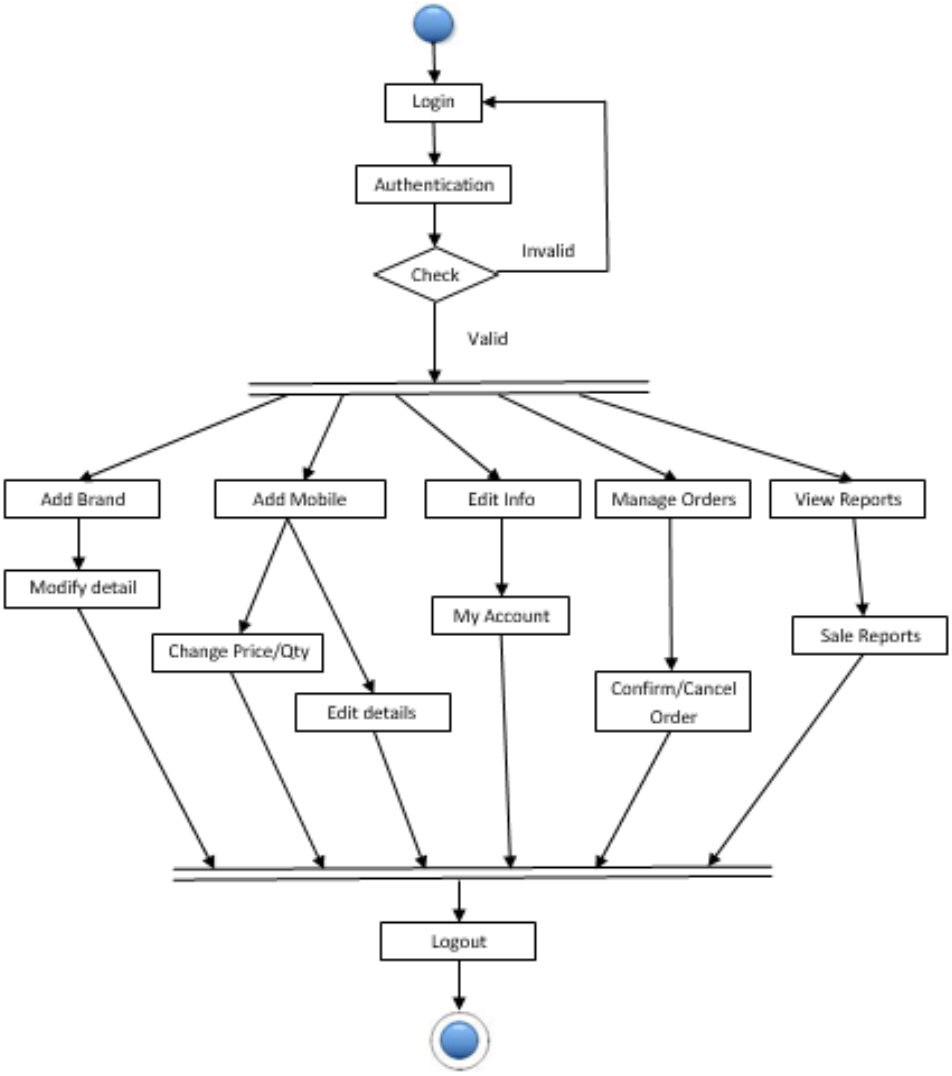

Fig 3 Activity Diagram for Seller

Data Flow Diagram:

Fig 4 Level 0 Data Flow Diagram

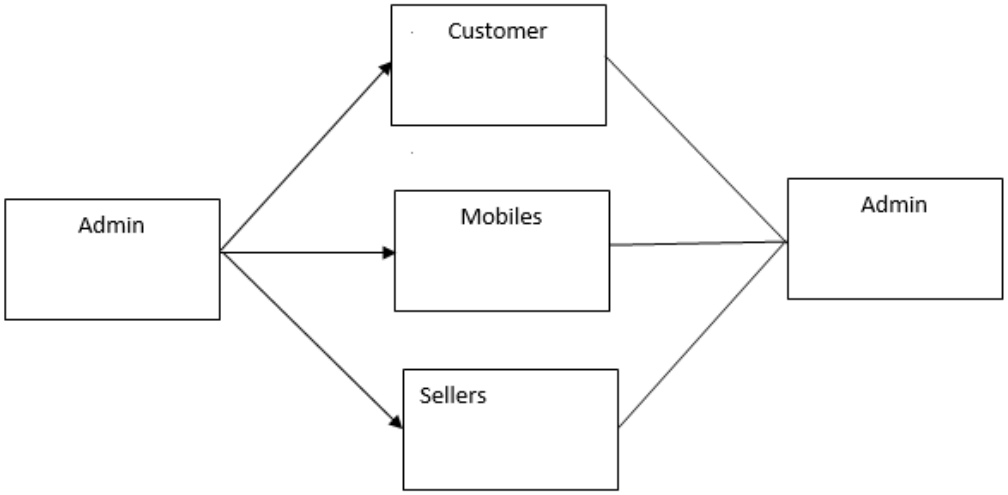

Fig 5 Level 1 Data Flow Diagram

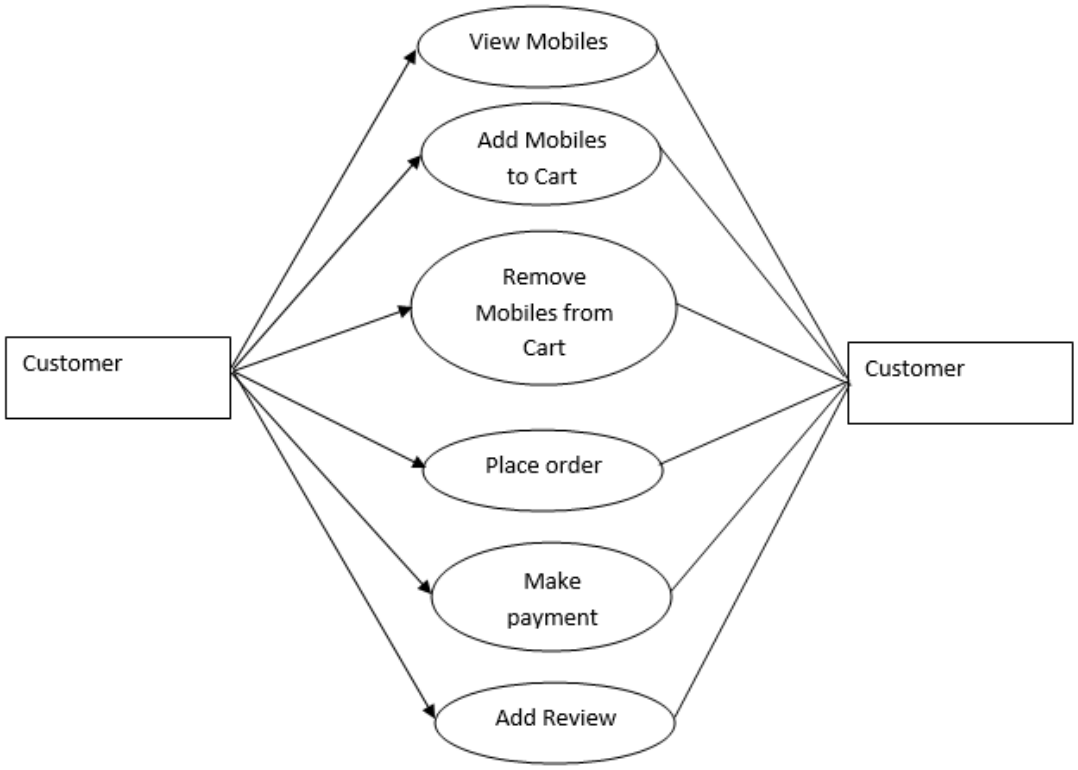

Fig 6 Level 2 Data Flow Diagram for Customer

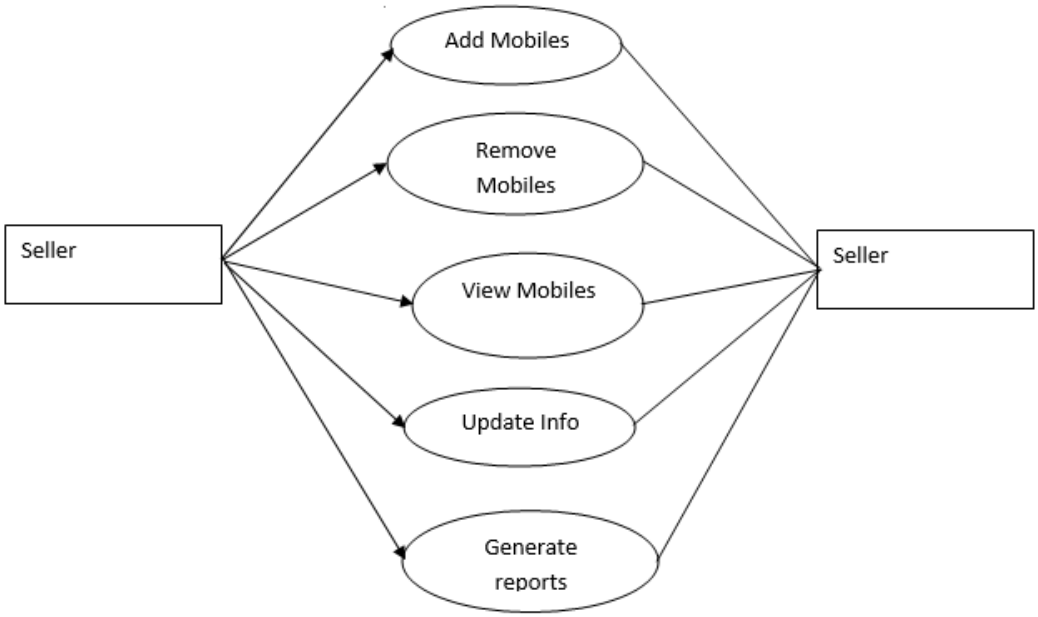

Fig 7. Level 2 Data Flow Diagram for Seller

Use-Case diagram:

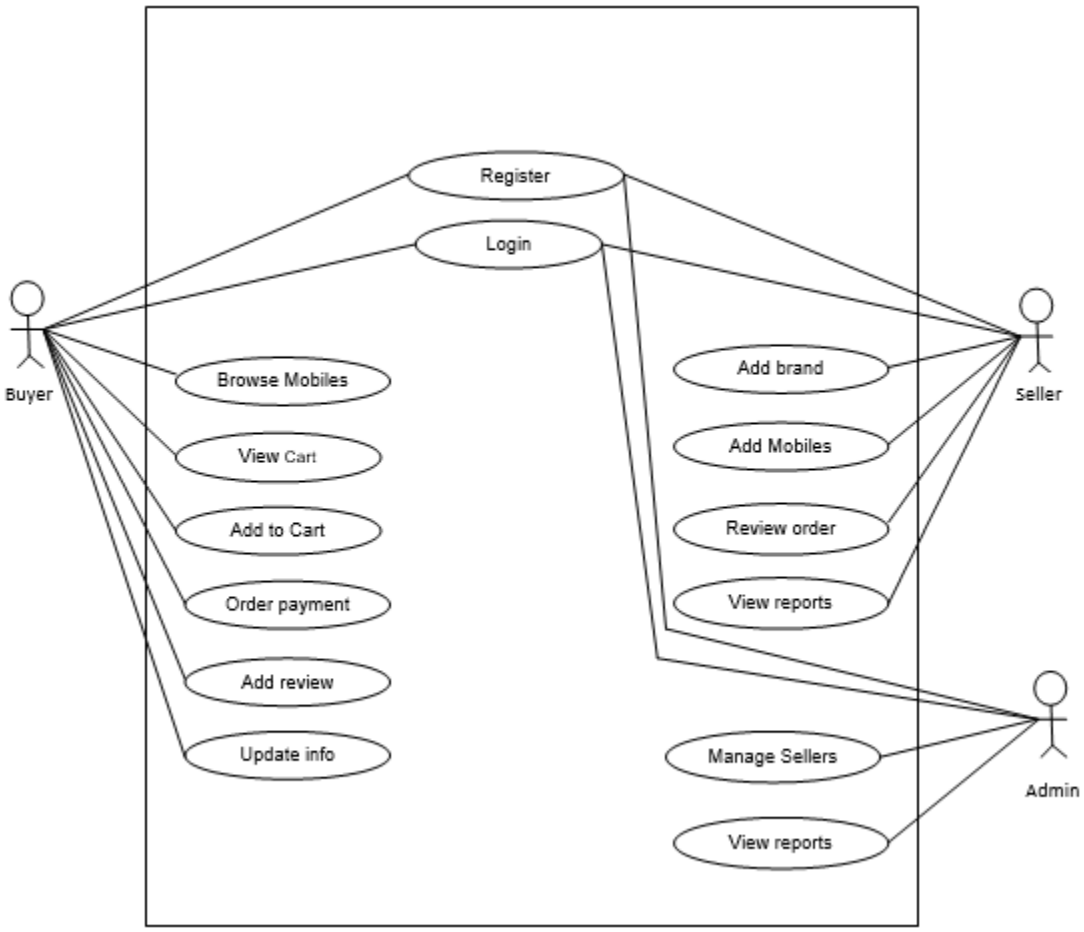

Fig 8 Use Case diagram for Online Mobile Shopping System

E-R Diagram:

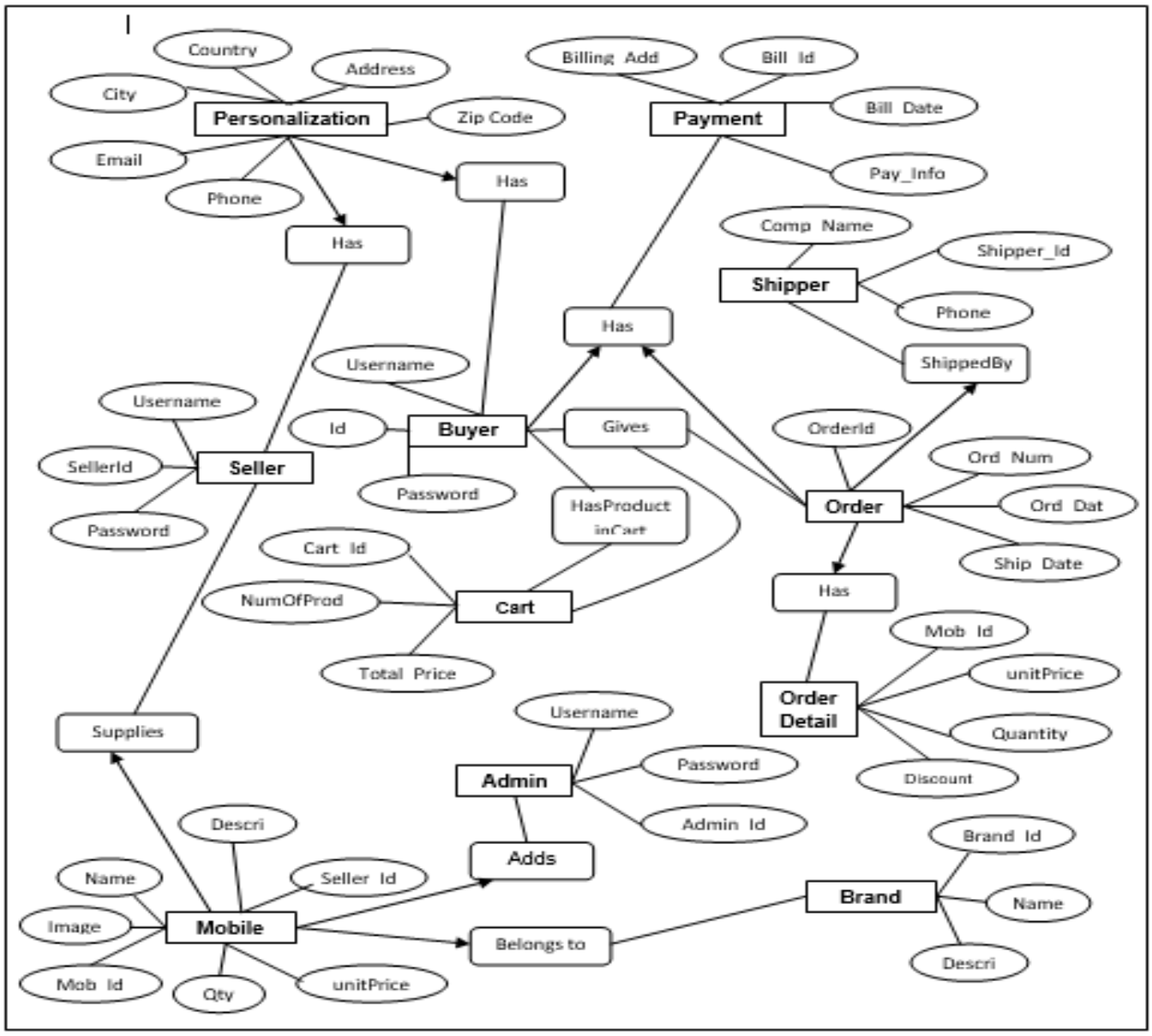

Fig 9. E-R Diagram for Online Mobile Shopping Website

5. Table Structure

Payment table:

Billid	Int	NO	PRI		auto_increment
Card_holder_name	varchar (255)	YES	UNI		
Card_number	Int	YES			
Cvv	Int	YES			
User_id	Int	NO			
Valid_through	Varchar (255)	YES			

Ordertable:

order_id	int	NO	PRI		auto_increment
Date	datetime	YES			
Payment	Varchar (255)	YES			
Price	Double	NO			
product_id	Int	NO			
Quantity	Int	NO			
seller_id	Int	NO			
ship_address	Varchar (1000)	YES			
user_id	Int	NO			

Seller:

seller_id	int	NO	PRI		auto_increment
approval	Varchar (255)	YES			
email	Varchar (255)	YES	UNI		
first_name	Varchar (255)	YES			
Gst	Varchar (255)	YES	UNI		
last_name	Varchar (255)	YES			
mobile	Int	YES			
pan_card	Varchar (255)	YES	UNI		
password	Varchar (255)	YES			
shop_name	Varchar (255)	YES			

Seller address:

address_id	int	NO	PRI		auto_increment
area	Varchar (255)	YES			
city	Varchar (255)	YES			
country	Varchar (255)	YES			
flat	Varchar (255)	YES			
full_name	Varchar (255)	YES			
landmark	Varchar (255)	YES			
mobile	Varchar (255)	YES			
pin_code	Varchar (255)	YES			
State	Varchar (255)	YES			
seller_id	int	NO			

Customer Address:

address_id	int	NO	PRI	
area	Varchar (255)	YES		
city	Varchar (255)	YES		
country	Varchar (255)	YES		
flat	Varchar (255)	YES		
full_name	Varchar (255)	YES		
landmark	Varchar (255)	YES		
mobile	Varchar (255)	YES		
pin_code	Varchar (255)	YES		
state	Varchar (255)	YES		
user_id	int	YES		

Customer:

customer_id	int	NO	PRI		auto_increment
email	Varchar (255)	YES	UNI		
first_name	Varchar (255)	YES			
last_name	Varchar (255)	YES			
mobile	Int	YES			
password	Varchar (255)	YES			

Product:

product_id	Int	NO	PRI		auto_increment
Graphicppi	Varchar (255)	YES			
operating_frequenscy	Varchar (255)	YES			
Actualmrp	Double	NO			
audio_jack	Varchar (255)	YES			
battery_capacity	Varchar (255)	YES			
battery_type	Varchar (255)	YES			
bluetooth_support	Varchar (255)	YES			
bluetooth_version	Varchar (255)	YES			
Charging	Varchar (255)	YES			
Depth	Varchar (255)	YES			
display_color	Varchar (255)	YES			
display_size	Varchar (255)	YES			
display_type	Varchar (255)	YES			
dual_camera_lens	Varchar (255)	YES			
expandable_storage	Varchar (255)	YES			
frame_rate	Varchar (255)	YES			
gps_support	Varchar (255)	YES			
Gpu	Varchar (255)	YES			
Height	Varchar (255)	YES			
hybrid_sim_slot	Varchar (255)	YES			
in_the_box	Varchar (255)	YES			
internal_storage	Varchar (255)	YES			
manufacture_name	Varchar (255)	YES			
manufacturer_other_details	Varchar (255)	YES			
model_name	Varchar (255)	YES			
model_number	Varchar (255)	YES			
Name	Varchar (255)	YES			
network_type	Varchar (255)	YES			
Nfc	Varchar (255)	YES			
operating_system	Varchar (255)	YES			
otg_compatiable	Varchar (255)	YES			
other_display_feature	Varchar (255)	YES			
other_features	Varchar (255)	YES			
primary_camera	Varchar (255)	YES			
primary_camera_features	Varchar (255)	YES			
primary_clock_speed	Varchar (255)	YES			
processor_core	Varchar (255)	YES			
processor_type	Varchar (255)	YES			

Ram	Varchar (255)	YES			
Recording	Varchar (255)	YES			
Resolution	Varchar (255)	YES			
resolution_type	Varchar (255)	YES			
secondary_camera	Varchar (255)	YES			
secondary_camera_features	Varchar (255)	YES			
secondary_clock_speed	Varchar (255)	YES			
seller_id_fk	Int	NO			
selling_price	Double	NO			
sensors	Varchar (255)	YES			
sim_type	Varchar (255)	YES			
supported_network	Varchar (255)	YES			
touch_screen_type	Varchar (255)	YES			
usb_connectivity	Varchar (255)	YES			
usb_tethering	Varchar (255)	YES			
video_recording_resolution	Varchar (255)	YES			
warrenty_summary	Varchar (255)	YES			
weight	Varchar (255)	YES			
width	Varchar (255)	YES			
wifi_hotspot	Varchar (255)	YES			
wifi_version	Varchar (255)	YES			
back_image	Mediumblob	YES			
bottom_image	Mediumblob	YES			
front_image	Mediumblob	YES			
left_side_image	Mediumblob	YES			
right_side_image	Mediumblob	YES			
top_image	Mediumblob	YES			
quantity	Double	NO			
color	Varchar (255)	YES			

Cart:

cartid	int	NO	PRI		auto_increment
Color	Varchar (255)	YES			
Price	Double	NO			
product_id	Int	NO			
quantity	Int	YES			
Ram	Varchar (255)	YES			
Rom	Varchar (255)	YES			
user_id	Int	NO			
product_name	Varchar (255)	YES			

6. Conclusion:

Online Mobile Shopping System is designed to enhance the way customer shops. Customer management, seller management, product management are the core modules of project. Customer can buy any mobile on just a click away, no need to go to multiple stores to check for configuration you want. Also it had provided seller platform to go online for selling their products. Through this system we have ensured satisfaction of customers and sellers.

Future Scope:

This project can be further enhanced for better experience of customers and sellers. We can also implement multiple payment gateway, real-time tracking of your orders. The software is flexible enough to be modified and implemented as per future requirements. We have tried our best to present this free and user–friendly website.

7. References:

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4. www.javatpoint.com