# An Online Platform for Mobile and Mobile Accessories

BY

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This Report Presented in Partial Fulfillment of the Requirements for the Degree of Bachelor of Science in Computer Science and Engineering

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**DHAKA, BANGLADESH**

# APPROVAL

This Project titled **"An Online Platform for Mobile and Mobile Accessories"**, submitted by Md. Anamul Haque, ID No: 171-15-9237to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 09/09/2021.
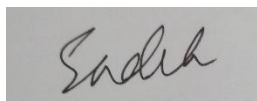
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# DECLARATION

We hereby declare that, this project has been done by us under the supervision of **Md .Zahid**

**Hasan Assistant Professor, Department of CSE** Daffodil International University.

We also declare that neither this project nor any part of this project has been

submitted elsewhere for award of any degree or diploma.


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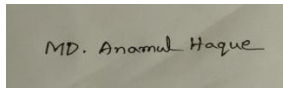**MD.Zahid Hasan**
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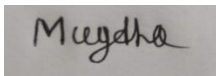

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We would like to thank our entire course mate in Daffodil International University, who took part in this discuss while completing the course work.

Finally, we must acknowledge with due respect the constant support and patients of our parents.

# ABSTRACT

This project "An Online Platform for Mobile and Mobile Accessories" is about an informative web application which will provide the information of available mobiles in our country. In comparative study there is few sites that provide not only mobile information but also sells them. But our motto is not same to them. We are going to give the users only information of available mobiles in our country and where to purchase them. As Most of the phones of our country is reconditioned so it's very important to buy them in physical. We think buying mobiles from online order is not safe. We have added many features that users can connect their demand. We have a contact section so that the user can ask for their demanded mobile. We have planned for notification section to notify the users about new arrivals. In our application user can do compare between two mobiles for easy making decision. This  will help our users for purchasing a suitable phone for them. As we are not selling phone so there is no profit of us from the mobile. So the price will be raw as showrooms demanded. We are giving free advertisements for the sellers so we have a plan of giving coupon for our registered users a good discount. Moreover our project is very friendly and easy station for the buyers.

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# Chapter 1

# INTRODUCTION

## 1.1 Introduction:

The Project "An Online Platform for Mobile and Mobile Accessories" is about an informative web application which will provide the information of available mobiles in our country. We will provide the users a correct information about the mobile. Our project is unique because we will combine all the brands in a single platform. There is no such platform yet in our country. The users will be shown mobiles info and buying address. Thus it will be easier to them to notify which mobile is mostly available in which area. Beside the mobile information we will also give our users right advice and help them by giving free choice to purchase a desired mobile.

## 1.2 Objectives:

Finding mobile will be easier.
> Update users with new arrival and news.
> No fee to get full specification.
Full Specification along with buying address

## 1.3 Motivation:

In modern era most of everything is now online based. We buy many of our needs through online. Same for the mobile, we need good info and price idea for purchasing a mobile. For our region it is difficult to know about the price and specification without going out or stores. So guessing the price is only solution. But in our website users will get the guessing price in an estimated price.

### 1.4 Expected Outcome

1.No harassment for going to store to store for enquiry

2.Estimate price with full specification

3.Monitoring new mobile updates and about latest price

### 1.5 Project Management and Finance

For every project we need a management process and also think of finance. If we have a plan and don't have finance then after all it's all about business and we will have no profit. To manage the project we two team members split out for half works. One of us has done the Front end code section and other has done the back end code section. The report was done by one and checked by other. For now we don't need any finance as we are not selling any products.

### 1.6 Layout of the Report

1. In **Chapter one** is like an illustrated book and one can easily familiar to objective, motivation, research questions, and anticipated result, this section describes the entire format of this report.

2. **Chapter two** provides the discussion on what already done in this domain before. Then the later section of this second chapter shows the scope arisen from their limitation of this field. And exceptionally final, the root impediments or challenges of this research are explained.

3. **Chapter three** describes the model and features discussion on this work. To discuss the features of this project, this chapter elaborate how the project is working. The workflow and some decision making.

4. **Chapter four** describes the designs of the web application. What are the services we are providing is present here by dividing them into features .Each of the features is the portrait of our work of this project.

5. **Chapter five** describes the implementation of the testing of the project. In this section all the testing is implemented so that the project can be developed friendly for the users.

6. **Chapter six** describes the future plans of regarding this project. Is any new feature going to be added or what is going to be changed is here. Mainly what is coming in future and our expectation is here.

# CHAPTER 2

# BACKGROUND

## 2.1 Terminologies

In this section, we will discuss related works, some research summary for collecting data and challenges about this research. In related works section, we will discuss about other project and their works, their methods, and accuracy to compare our work. In research summary section we will give the summary of our related works. In challenges section, we will discuss how we use the data of mobiles.

## 2.2 Related Works

Almost everything nowadays is selling over online. E-commerce has three main business models: B2C, business-to-business (B2B), and consumer-to-consumer (C2C) [1].here are so many e-commerce sites in our country is going on like- mobiledokan.com, gsmarena.com, phoneshopbd.com . These sites are selling all kind of phones.

### 2.2.1 Mobiledokan.com

This site is much known to us as an e-commerce site for selling & buying almost all phones. **Mobiledokan.com** works with all phones those released even they are rumored to be launched and the price is not yet declared. It is sometimes confusing for the consumers.
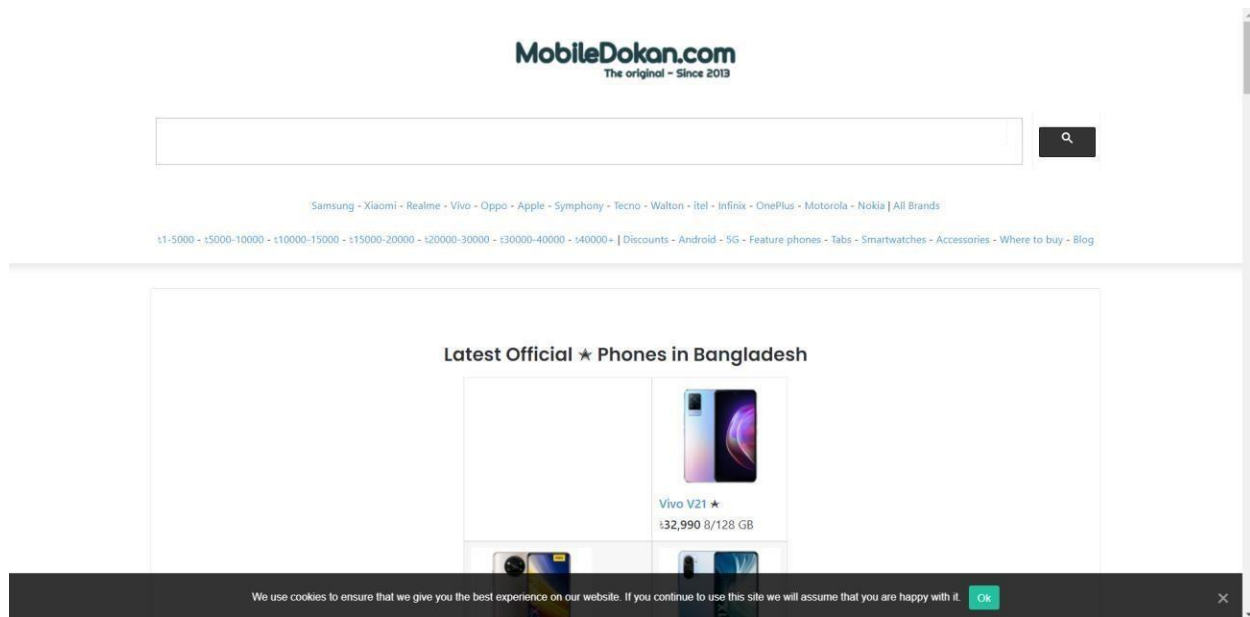
Fig 2.1.1: mobiledokan.com

### 2.2.2 Gsmarena.com

This site is similar to mobiledokan but it is global website. So it shows all the mobiles available in the whole world rather than showing those are available in our country.
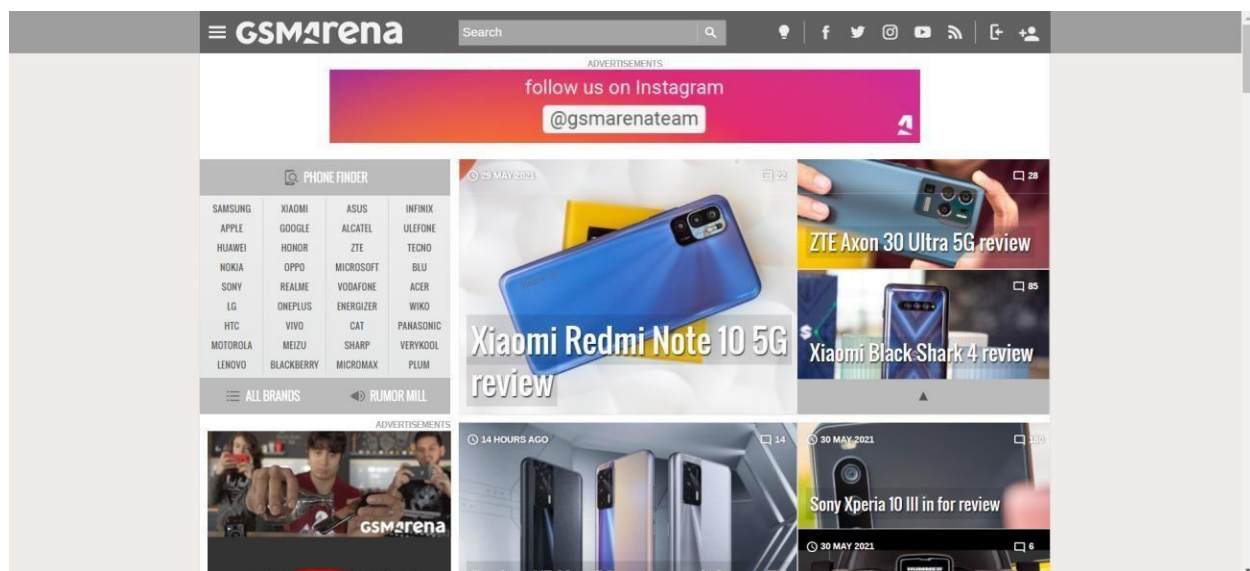


Fig 2.1.2 gsmarena.com

### 2.2.3 Phoneshobd.com

This is a site shows the products those are sometimes outdated and the price is not regulated regularly which is a huge drawback for the consumers.
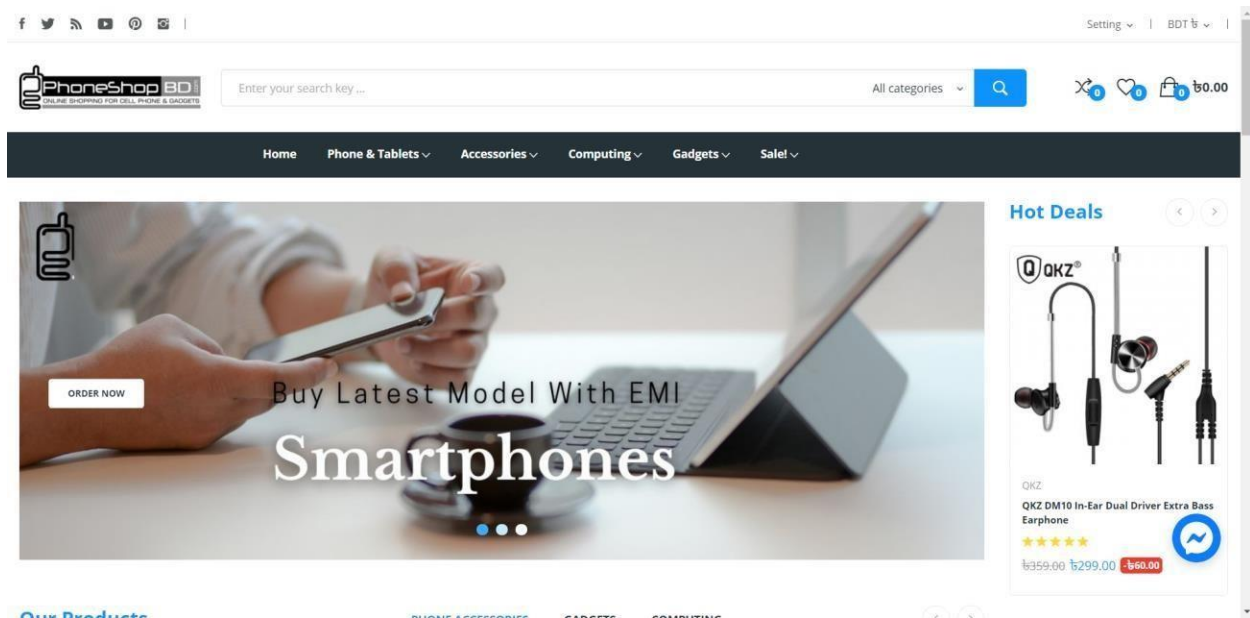


Fig 2.1.3 phoneshopbd.com

### 2.3 Comparative Study Analysis

We did research on this topic that if there is any similar site available. But there is no such site that is similar to our motto. We have integrated all the brands. For data collecting we have grown through the market and study on it. Which we found that mostly they are buying-selling sites and integrated of various products. The next thing is that the price is not always same for same model and brand of mobiles. The sites are doing profit for selling products and thus the real price is not shown. So our main motto will be to inform the consumers with an info of mobiles that are reliable. We are not selling them so the price of the mobiles will be out of our charges.

### 2.4 Scope of the problem

The main problem was to collect a huge information about the mobiles. Then it was difficult to manage and process the information accordingly what is needed. Web development is helping at a strong rate. Better and straightforward interfaces are mainstream. With respect to developing a compelling web application there are different factors describing that accomplishment. Customers are restless to know different pieces of your thing, for instance, it's cost, look and accept, and regard for money. To consider the association nuances, customers may visit the association's webpage, convenient applications and electronic media stages. Subsequently, it is critical how you relate and respond the customers.

### 2.5 Challenges

Making an endeavor with the latest development is our standard target. Accordingly, in the wake of readiness our endeavor we need to acquire capability with a huge load of things which was not a straightforward task to us but instead devoted of every partner, we can fight this issue and has developed a web application with latest framework and data base.

# CHAPTER 3

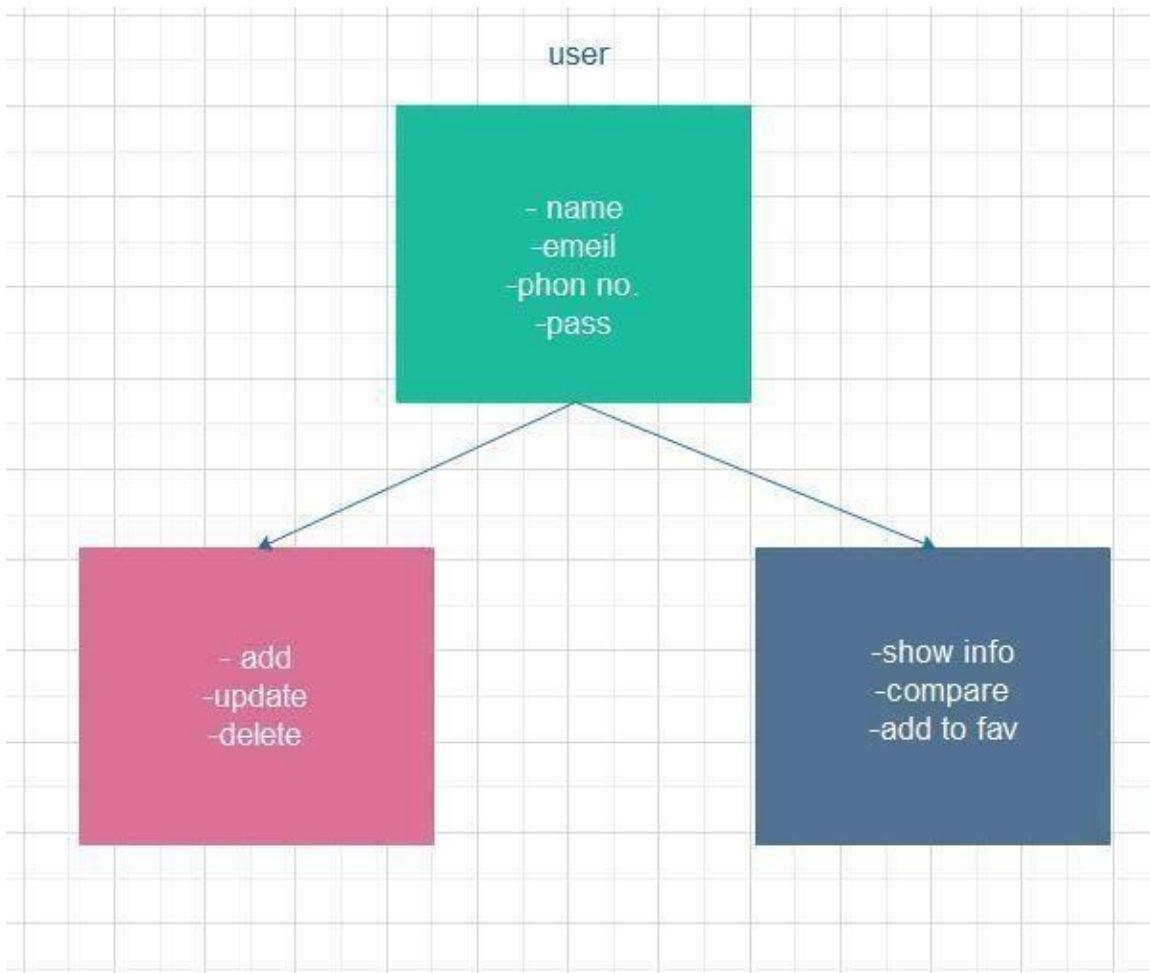# Requirement Specification

## 3.1 Introduction

In this section, we are trying to elaborate proposed model with important chart, and description. What type of model should we choose to fully describe our idea and how it will be user friendly a proposed model should be risen. When a model is chosen then it will require some features to work on.

## 3.2 BPM (Business Process Modeling)

**Business process modeling** (**BPM**) in business process management and systems engineering is the activity to represent processes of an business , so that the current process can be analyzed, improved, and automated. BPM is typically performed by business analysts, who provide expertise in the modeling discipline. BPM helps us to create a model that can be helpful for constructing a working model of a business. [2]



Fig 3.2 Business Process Model

## 3.3 Logical Data Model



Fig 3.3 Logical data model

### 3.4 Requirements Collection and analysis

Requirements & Specifications are important for a project as it contains what are necessary to build it. Web services today are frequently just Application Programming Interfaces (API) or web APIs that can be Web API is a development in web services where emphasis has been moving away from Simple Object Access Protocol (SOAP) based services towards more direct Representational State Transfer (REST) style communications.[6]

### 3.4.1 Hardware Requirements

To build the project We need Hardware components such as:

1. Personal Computer (Desktop/Laptop)

2. Internet Connection

### 3.4.2 Language requirements

To make the web application we need Javascript, HTML and CSS as our preferred language.

### 3.4.2.1 Javascript

**Javascript** that is a scripting language for web developing.
 Javascript works by processing in a web server that is done by a javascript interpreter. Javascript works with data such as HTML or binary image that is HTTP responsive. Web templates, Web frameworks can be implemented for the response.

### 3.4.2.2 HTML

HTML stands for Hypertext Markup Language. HTML works as a display mode of a web application or a web page. CSS helps it for a color combination and designs. HTML is a primary builder for a web page. HTML works by implementation of tags. There are so many tags for designing a page. HTML has elements and attributes. It has several kinds of content, each of which is allowed to be used in certain contexts and is disallowed in others.

### 3.4.2.3 CSS

CSS is assistant scripting language of HTML to implement high quality colors and designs.CSS modifies HTML documents. CSS controls the layout of web pages. It can do it for all at once.CSS is three types. One is Inline CSS that is strongest, Internal or Embedded CSS, External CSS. CSS file is linked to HTML file to work. If the CSS file is not linked then the HTML file would not be modified.

### 3.5 User Diagram



Fig 3.5 : Use case Diagram

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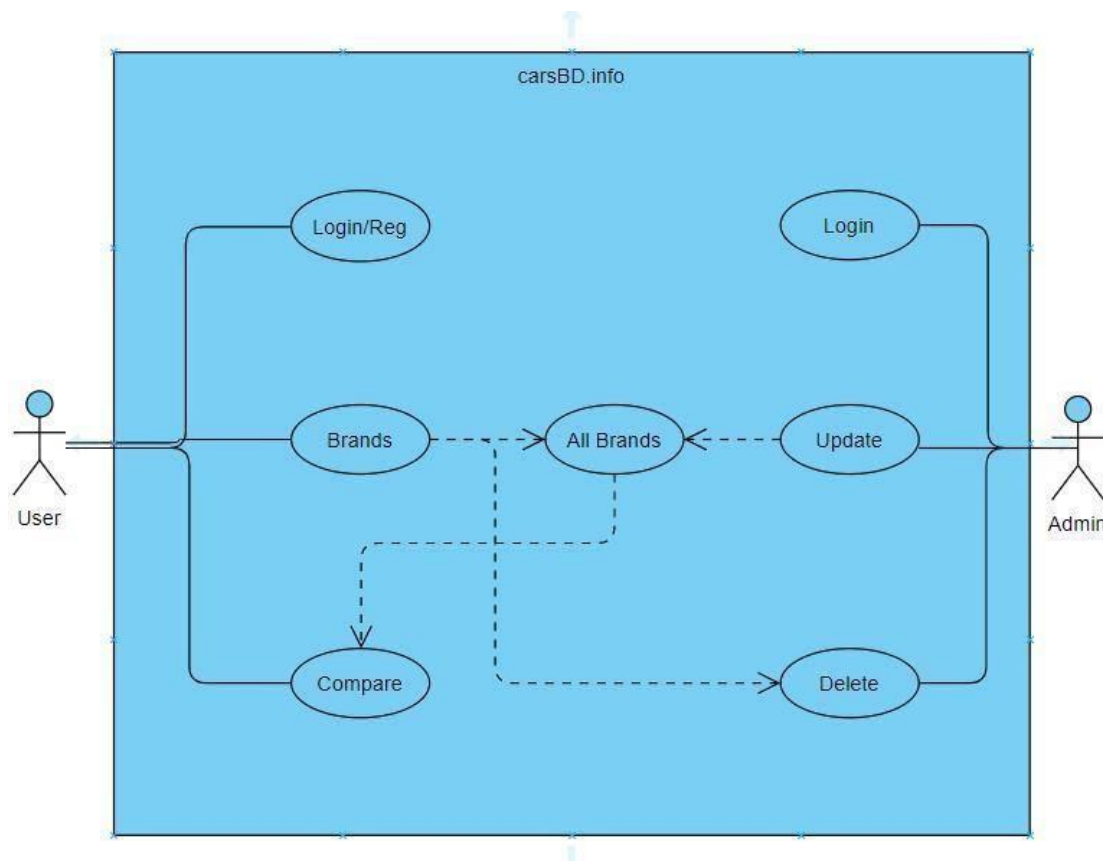
# CHAPTER 4

## Design Specification

### 4.1 Introduction

In this section we will discuss about features of our project and how the designs look like.

### 4.2 Front-End Design

User interface is the important part of every website. The achievement of the website depends on design and how easy to use for a user. Front-end design is the essential part of a website. We design very simple interface for user friendly. It was not easy to design our simplest interface.

### 4.3 Back-End

Back-end is the part that working behind the front-end. For the functionality of the every parts back-end is must needed. Back-end is the connector between server and front-end. We see database on Appendix section: B Figure B1

### 4.4 User interface

User interface is which the user can see and use on. User interface is essential for a project because the popularity is dependent on it. If the user interface is friendly and easy then the user may experience a good web application. The response of the user always matters.

### 4.4.1 Home page:

Our home page have one navbar, one search bar, Most Viewed Today section, Become a subscriber section to connect with us, Follow us On Social Media section for us on social media, service, sign in, signup, chart button, changeable picture section and a footer.
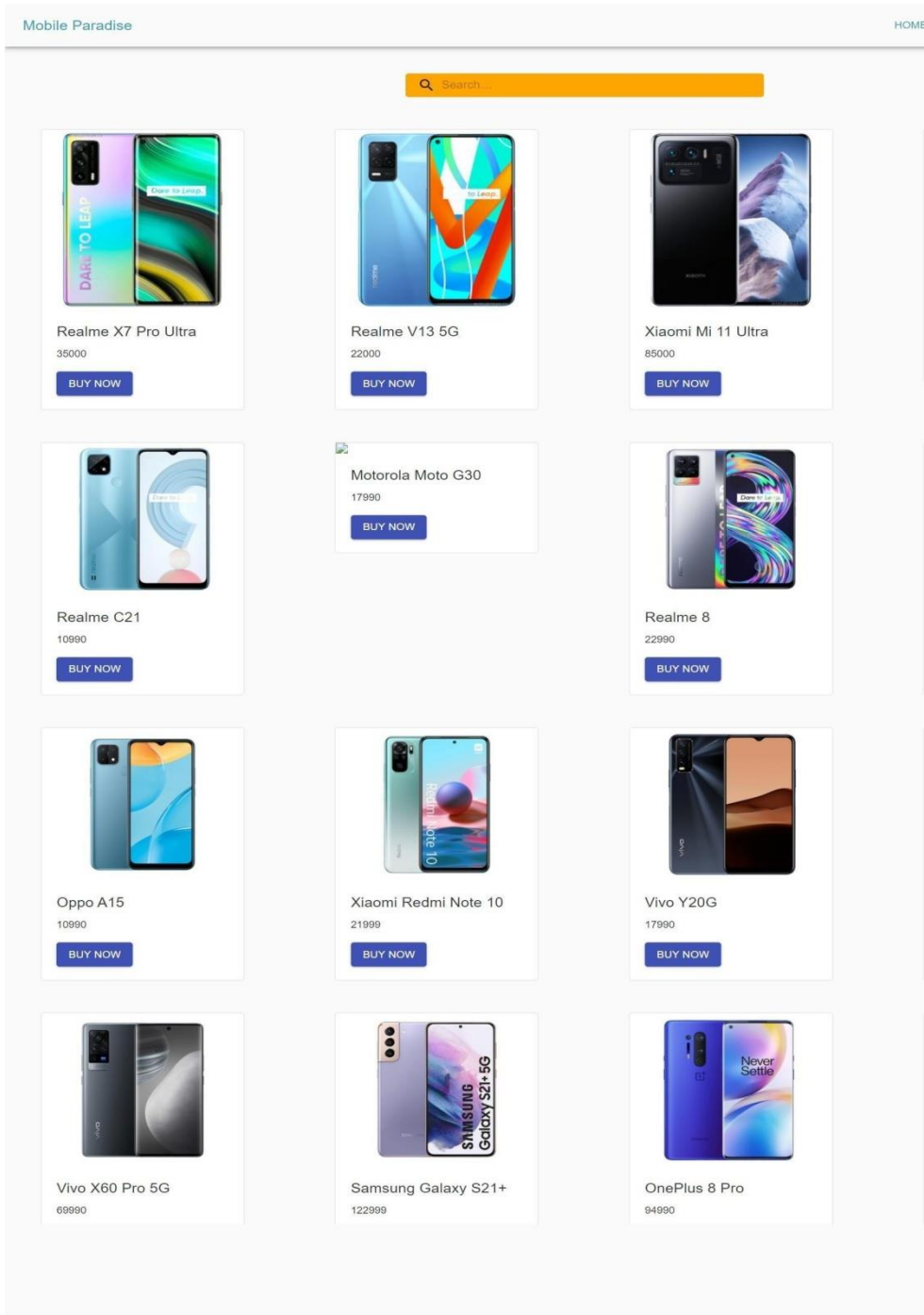
Fig 4.4.1: Home page

### 4.4.2 Sign up :

As a new user you need to register on our website to use our facilities and support. To register you need to use valid mail and mail confirmation. For identify you are a man we use reCAPTCHA. If you have already an account you can sign in by clicking on "Already have an Account?" You can go home page by clicking on "Home" button.
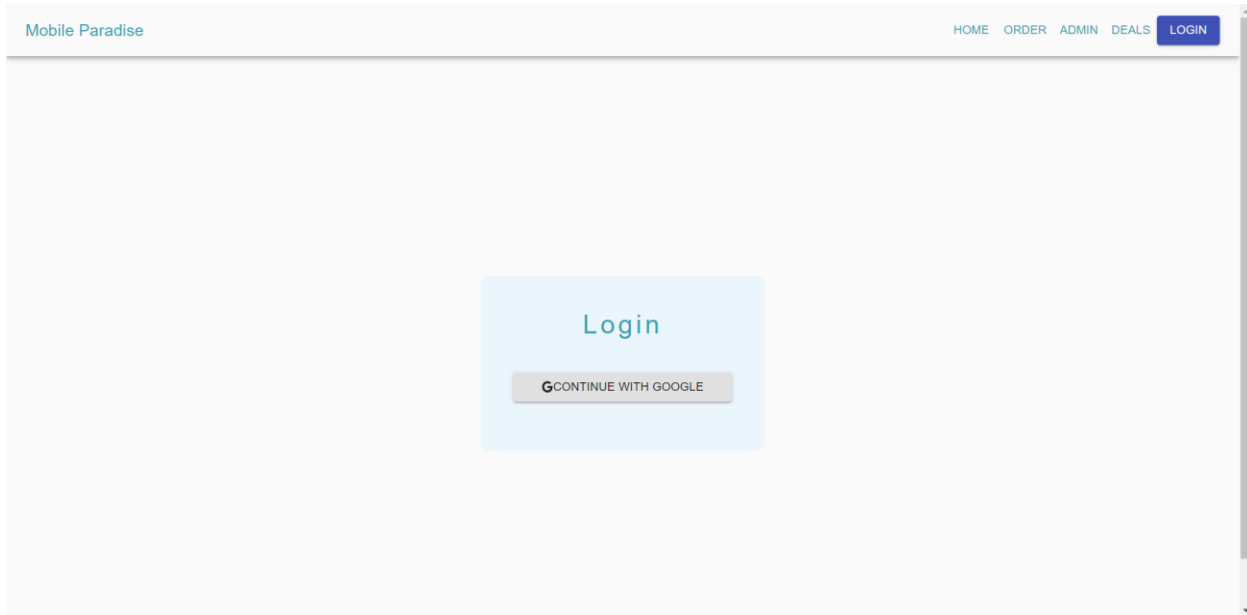


Fig 4.4.2 : Sign Up

### 4.4.3 Login:

You can sign in as our website registered user. We see code on Appendix section: B
Figure B2
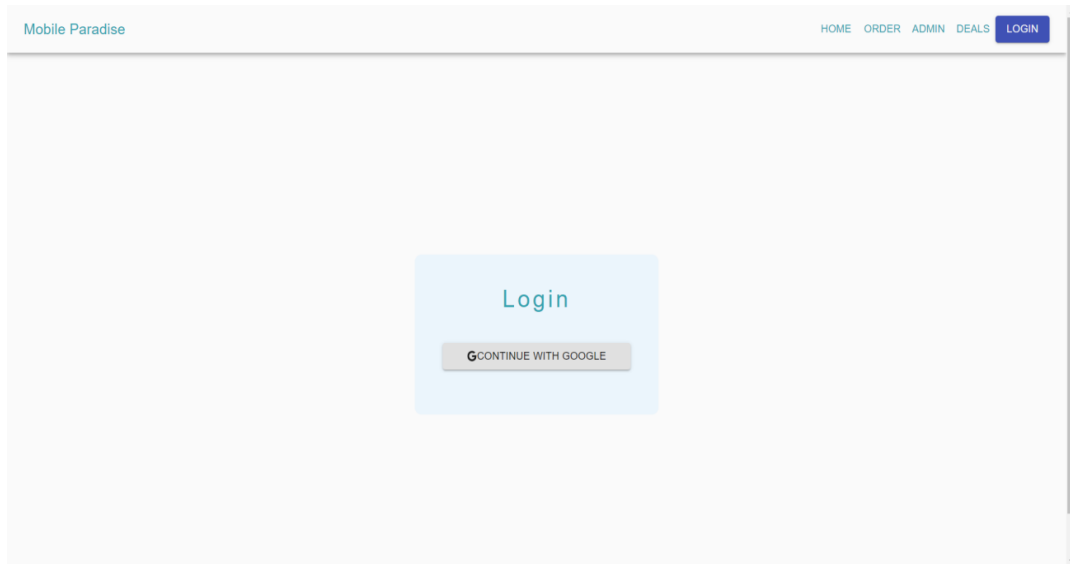


Fig 4.4.3: Log-in

### 4.4.4 Compare Mobiles:

You can compare your confusing two mobiles for choosing best.

### 4.4.5 Brand:

After click on Brand options you can show all mobiles brand list. By clicking on liked brand you can see the all models mobiles of this brand. You can see just all model mobiles picture and price. To see all details you need to click on models name
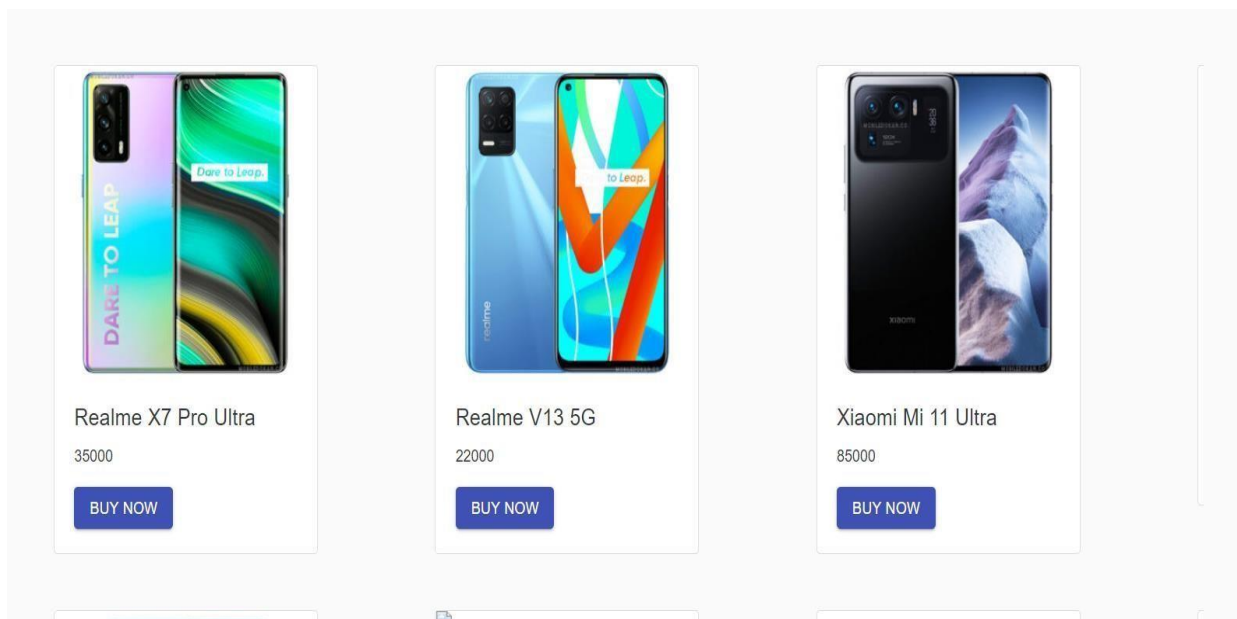


Fig 4.4.4 Brand

### 4.4.6 Mobiles View:

In this section you can see the all details of the mobiles. You can cart add, you can also comment by login our site or Facebook. Comments will short as oldest & newest. We see database on Appendix section: B Figure B5
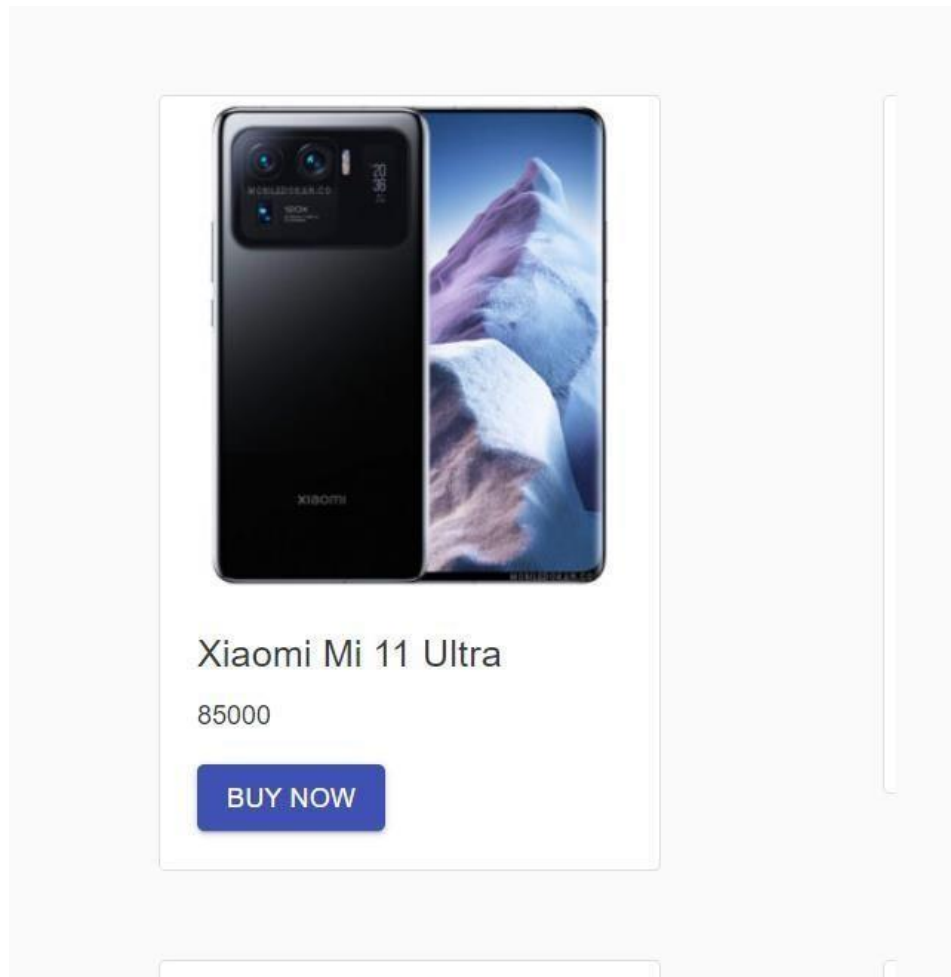


Fig 4.4.5 Mobile's View

### 4.4.7 Search Box:

From search box you can find the specific model that you need to know.

### 4.4.8 Implementation Requirements

1. HTML & CSS environment

2. React JS

## CHAPTER 5

## Implementation and Testing

### 5.1 Implementation of database

In our website we used MySQL database to store the data of our website. Our database name is "mobilesBD.info" where all data stored of our website's. In our website's database 9 tables include. User table for store admin and user mail & password. Contact table for who message in our website. Category table for brand name store. Product table for mobiles details store. To see database- on Appendix section: B Figure B4

### 5.2 Implementation of Front end design

To implement front end design we needed HTML and CSS language for main design. We also used Bootstrap for a lively interface. It mainly modifies or give a good quality to basic design in a good way.

### 5.3 Testing Implementation with results

Testing is an important part for any developing project. Before users use the project it is essential to test the quality of the project. By testing the errors come out. If there is needed any development then it also comes out.

Table 5.1: Testing Implementation

| Test Case | Test Input | Expected Output | Actual Output | Result | Test Date |
|-----------|-----------|-----------------|---------------|--------|-----------|
| Browser Test | Chrome, Firefox | Open | Open | Passed | 20/09/20 |
| Responsive | Browser, phone | Responsive | Responsive | Passed | 20/09/20 |
| Sign in | User mail, password, | Log in successful | Log in successful | Passed | 20/09/20 |

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| | name | | | | |
|---|---|---|---|---|---|
| Login | User mail, password | Log in successful | Log in successful | Passed | 20/09/20 |
| Search | Xiomi MI 11 ultra | Details | Details | Passed | 20/09/20 |
| Comments | Wonderful mobiles | Commented | Commented | Passed | 20/09/20 |
| Compare | Xiomi MI 11 ultra vs Realme X7 pra ultra | Each details | Each details | Passed | 20/09/20 |

# CHAPTER 6

## CONCLUSION & FUTURE SCOPE

### 6.1 Conclusion

This project will help the user to find a suitable mobile for them. As we know the transport system of our country is not up to the mark. So the demand of purchasing a private mobile is increasing day by day. On the other hand almost everything is now checking in internet for purchasing anything. Thus our project is also a helpful for the new buyers. The other thing is as we are giving the purchase address and shop the sellers also would be benefited having free advertisements.

### 6.2 Future Scope

There are many future scope in our project. Our project is in more development process. We may add other features so that the users may have a good user experience. Then they might consider our site as a guideline for purchasing any mobile.

#### 6.2.1 Address with Map

We may add map for the purchasing address as our development and a good user experience.

#### 6.2.2 Limitation

In our web application the users can't buy the mobiles through online as we are not providing the e-commerce facilities. The other thing is the sellers can't give advertisements by themselves as we are not giving the facilities like "bikroy.com" gives.

# APPENDIX

## Appendix A: Project Reflection

This project was very interesting to us. We learned many thing to develop this website. Our experience is very good to developing this site.

**Table A1: Survey Table**

| Serial | Query | High | Medium | Law | N/A |
|--------|-------|------|--------|-----|-----|
| 01 | How much user friendly? | ▮ | ▮ | ▮ | ▮ |
| 2 | How much easy to use? | ▮ | ▮ | ▮ | ▮ |
| 3 | How much easy to search mobiles? | ▮ | ▮ | ▮ | ▮ |
| 04 | How much easy to compare mobiles? | ▮ | ▮ | ▮ | ▮ |
| 05 | How much easy to contact? | ▮ | ▮ | ▮ | ▮ |

| 06 | How much easy to check cart? | | | | |
|---|---|---|---|---|---|

**Apendix B: Related Diagram**
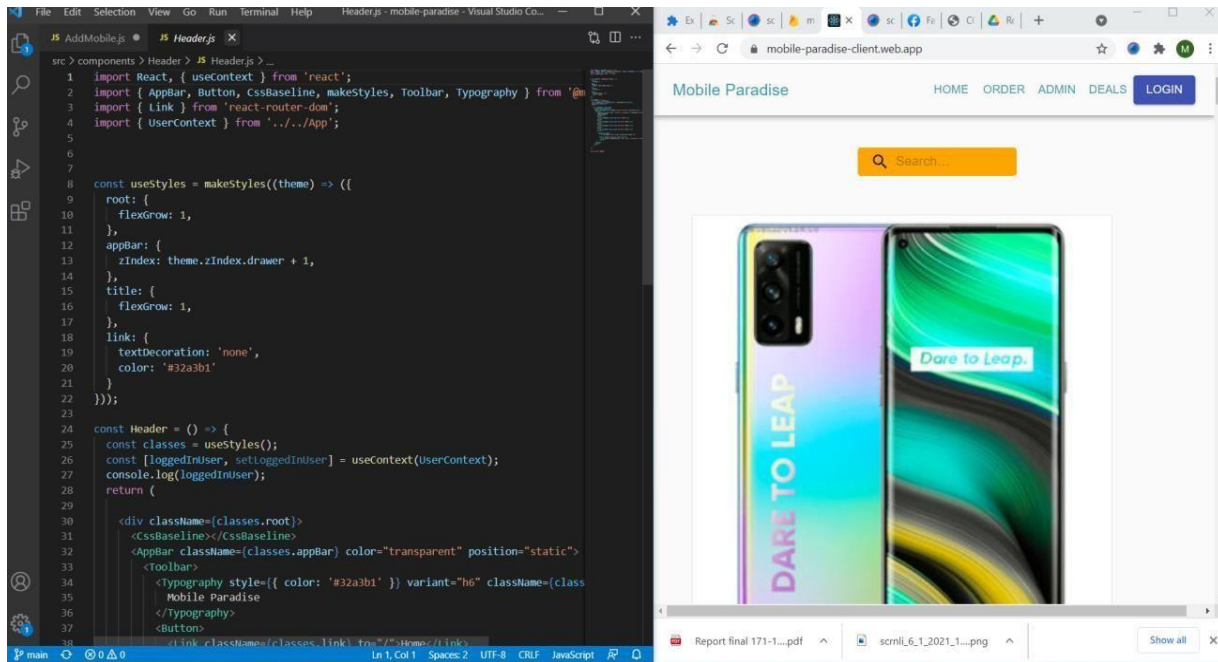


Figure B1: Home page section live view

Figure B2: Database Connection
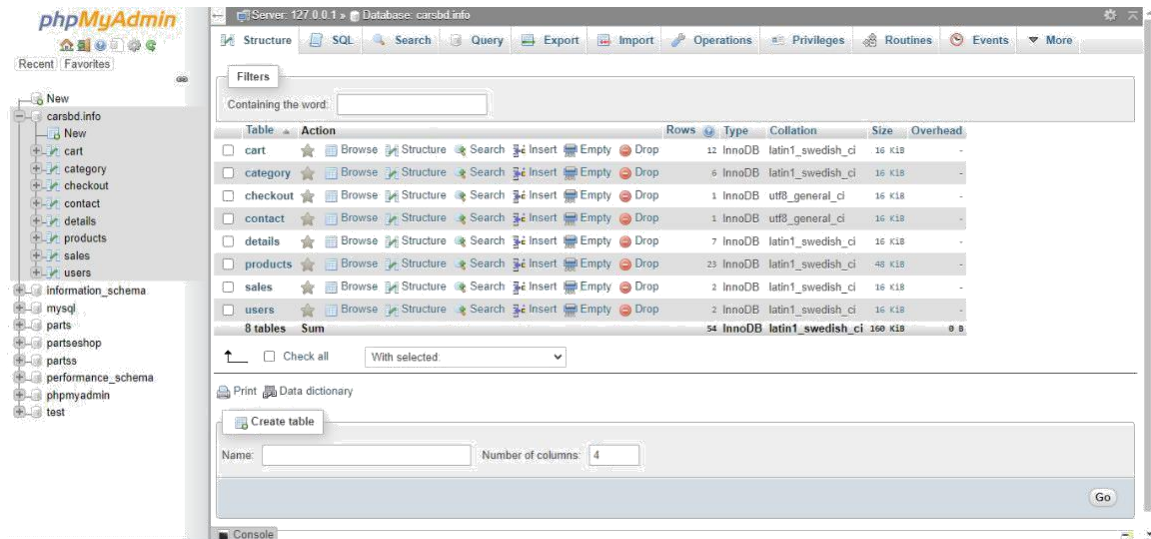
Figure B3: Database for mobilesBD.info
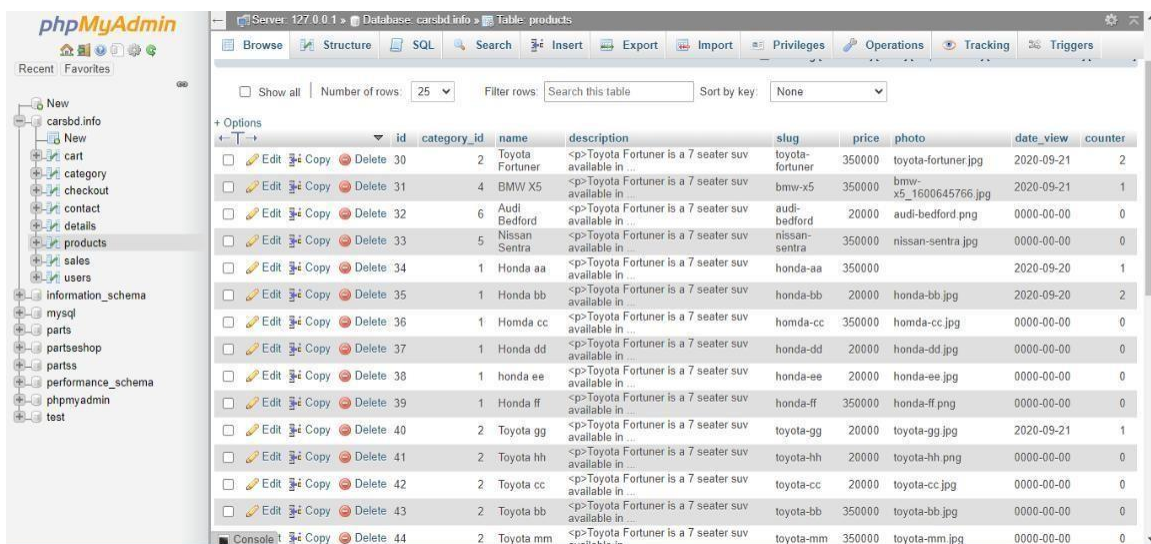


Figure B4: Database table for products/mobiles

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