Review of Case Study of E-Commerce Mobile App Development

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Abstract: *This project is designed for the successful completion of a project in the development of the E commerce mobile app. The main purpose of the building is to provide an online shopping service. E commerce mobile app development is a traditional program designed to buy electronics and other items online. This project aims to keep all customer related information, different data tables available for each type of product and sell successfully. Project Aim is transparent in the field, which makes the purchase process easier and makes the app more efficient.*

Keywords: E-Commerce, Mobile App

I. INTRODUCTION

In today's world, people do not have time for their own needs. The new design is so fast that anyone can do anything by simply sitting in the room. Therefore, it is as important as its consideration. The internet is a way that helps a person in every aspect. In a situation where one wants to buy and look at things, one can buy online with the help of the internet. Setting up an online store to deliver your items can be an important and profitable way to work together. Shopping has been considered a hobby for many. Online shopping too. The purpose of this application is to develop a web-based online marketing interface. The program can be easy to use and that is why it makes shopping fun for users.

1.1 Objectives

The main purpose of this e-commerce mobile app is to develop an Indigenous-based E- commerce mobile app and to realize the importance of E-commerce in the modern environment. This app will be very useful for marts and large marts. To make students aware of the role E-commerce plays in large organizations. The main purpose of the application to overcome the barriers of existing programs and other benefits of the new system is as follows:

A. Storing Product details and customer data

Our application stores the all information about products, also stores the information about the customers and perform appropriate actions on it.

B. User Friendly

The new Application will be more user friendly as compared to other systems. To develop an easy-to-use web-based interface where user can search for products, view a complete description of the products and can order for the products.

C. Getting Feedback

If any user wants to give feedback, then that user can easily fill the report the problems users encountered while using the application.

1.2 Advantages of E-commerce Mobile Application:

- Quickly creating database backup and manufacturing's Administration.
- Server database provide and protected from unauthorized modification.
- Purchasing quickly and efficiently.

- Provide interactive interface through which a user can interact with different areas of app easily.
- Mobile shopping is now the number one driver of e-commerce growth globally.
- Application can provide every single update of order Tracking.
- New features and updates can be added with upcoming release.

II. LITERATURE SURVEY

The Internet makes business easier and faster. It has led to changes in the way people do the fast-growing global business in online shopping or online trading. Online shopping is considered the most useful way to buy products online especially during holidays and concessions. It allows customers to enjoy a wide variety of products and products not only from a particular store, but from a variety of stores that include all kinds of items. Shopping online also provides customers with excellent customer service that also takes place online E-Commerce software can be used to manage your online store and handle aspects such as adding and removing products, tracking inventory, calculating taxes and other work required to fulfil orders placed on the website.

There are a large number of online shopping websites that offer a large number of products designed to meet the shopping needs of a large number of customers. These online markets have thousands of products listed in various categories. Shopping has been considered a hobby for many. Online shopping too. The purpose of this application is to develop a web-based online marketing interface. The system can be easy to use and that is why it makes shopping fun for users.

Buying and selling products offline, you will be limited to selling products in a limited area where the store is located. When you buy any product customer you should visit many websites for price, comparison features, delivery time and product availability capabilities. We have considered mobile phones, laptops, televisions, washing machines, refrigerators for commercial purposes. Details of design and operation are discussed in the following sections.

The functionality of the proposed application is divided into several sub- modules. Consumer shopping cart modules, orders, payment and product module. These modules when combined provide the desired functionality of the application.

III. MAIN FUNCTIONS

3.1 Development Tools

The whole development process is divided into two parts: front end development and backend development. The front includes visual elements such as the homepage, control panel, contact page, shopping cart page. The background contains the database and its interaction with the front end.

A. Tools/Technology used:

- Language used: JavaScript, JSX, SQL.
- Frameworks/Libraries used: React Native, Expo CLI, Express Js, Npm, Node Js.
- Tools/Software's used: Visual Studio Code, MySQL Workbench, Expo Go,Postman, Ms-Edge.
- Database used: MySQL.
- Tested on: Android device (Android Version 9, API Level 28), Android device (Android Version 8.1, API Level 27).

3.2 Front-end Upgrade

The front end originally had a green code using React Native. JavaScript is a client-side text language that is a language rendered in the mobile application. JavaScript code is already mixed with JSX code. JavaScript XML is a language used to design web pages. JavaScript is a client-side language that is widely used as part of web browsers and its use allows client client text to interact with the user, control the application and modify the contents of the displayed document.

3.3 Backend Development

Database Management System (DBMS) provides background support. A database management system is actually software where the administrator can build a website, add, drop, modify and update tables. Tables can hold different types of data for example: total number, variable characters etc. in our application we have selected the MySQL DBMS to host the site.

3.4 Database Design

One of the most important and challenging tasks is building a website. Information transmitted to the customer while registering in the application is stored on the website. Copyrighted products, description and image are stored on the website. In addition, when the administrator updates any products installed will be updated on the website. This program is therefore closely related to the website. Any queries are conducted on the website with the official questionnaire (SQL). As mentioned earlier Node Js has some useful features one of which is support to connect to the database and run queries. The following diagram describes the website design details.

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