



MANIPAL INSTITUTE OF TECHNOLOGY
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Mini Project Report
of
Database Systems Lab (CSE 2262)

Online Shop

SUBMITTED
BY

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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CERTIFICATE

This is to certify that the project titled **Online Shopping Website** is a record of the bonafide work done by **M.V.Balaji, Varun Sathaye (Reg. No. 210905400,210905105)** submitted in partial fulfilment of the requirements for the award of the Degree of Bachelor of Technology (B.Tech.) in **COMPUTER SCIENCE & ENGINEERING** of Manipal Institute of Technology, Manipal, Karnataka, (A Constituent Institute of Manipal Academy of Higher Education), during the academic year 2022-2023.

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ABSTRACT

The online shop is a platform that allows customers to browse and purchase products from the comfort of their own home. The, customers can sign up for a new account by providing their name, email address, and password. Once registered, customers can log in to the platform and browse products by category, title, or price. This website has multiple product organized into multiple categories which make the shopping process simple and convenient, and customers can add products to their shopping cart to and checkout complete their order. In addition, the website allows customers to view their order history, track the status of their orders, and receive updates on the latest promotions and discounts. The online shop is designed to be secure and reliable, with measures in place to protect customer data and ensure a smooth shopping experience. With its wide selection of products, convenient features, and easy-to-use interface, the online shop is an ideal destination for anyone looking to buy products online.

CHAPTER 1: INTRODUCTION

As e-commerce experiences remarkable growth around the world, online retail application databases are among the most in - demand applications for user-seller interaction across the world. Today, E-commerce applications thrive to connect people to sellers to buy products of their desire and comfort.

The application allows the customer to register and to select and buy items from different product categories .

Schema:

Category(category_id,category_title)

Product(product_id,category_id,product_title,product_desc,product_key,product_img,product_price,date)

Cart_Details(product_id,quantity)

User(user_id, username,user_email,user_password,user_address,user_mobile)

Order_Details(order_id,user_id,amount,invoice,total_products,order_date)

Features:

- Create new user
- Add Product to Cart
- Update/Remove Products from Cart
- Checkout Items from Cart
- Fetch User Order History
- Admin can add new categories
- Admin can add new products inside categories

CHAPTER 2: PROBLEM STATEMENT & OBJECTIVES

Problem Statement:

Design and implement a simple marketplace where items can be listed for sale or for purchase under various categories.

Objective:

The online shop is a platform that allows customers to browse and purchase products from the comfort of their own home. The, customers can sign up for a new account by providing their name, email address, and password. Once registered, customers can log in to the platform and browse products by category, title, or price. This website has multiple product organized into multiple categories which make the shopping process simple and convenient, and customers can add products to their shopping cart to and checkout complete their order. In addition, the website allows customers to view their order history, track the status of their orders, and receive updates on the latest promotions and discounts. The online shop is designed to be secure and reliable, with measures in place to protect customer data and ensure a smooth shopping experience. With its wide selection of products, convenient features, and easy-to-use interface, the online shop is an ideal destination for anyone looking to buy products online.

CHAPTER 3: METHODOLOGY

Protocols Used:

PHP:

PHP is a general-purpose scripting language geared toward web development. It was originally created by Danish-Canadian programmer Rasmus Lerdorf in 1993 and released in 1995. PHP is a server scripting language, and a powerful tool for making dynamic and interactive Web pages. PHP is a widely-used, free, and efficient alternative to competitors such as Microsoft's ASP. PHP can be used for many programming tasks outside the web context, such as standalone graphical and databases applications .

MySQL:

MySQL is a widely used relational database management system (RDBMS). MySQL is free and open-source. MySQL is ideal for both small and large applications. A relational database organizes data into one or more data tables in which data may be related to each other; these relations help structure the data. SQL is a language programmers use to create, modify and extract data from the relational database, as well as control user access to the database.

MySQL has stand-alone clients that allow users to interact directly with a MySQL database using SQL, but more often, MySQL is used with other programs to implement applications that need relational database capability. MySQL is a component of the LAMP web application software stack (and others), which is an acronym for Linux, Apache, MySQL, Perl/PHP/Python.

Firstly, we decided on our database design by design an entity relationship model. Using the ER Model we derived the schema. We added all the tables from the schema to our database. Following that we designed user login/register and product/category GUI elements and linked it to the database and inserted all the data in the database. Once that was done Homepage and Cart elements were designed and were linked with the database. Lastly we implement user order logic and linked it to the database.

CHAPTER 4: ENTITY RELATIONSHIP MODEL

