MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

Skill Based Mini Project Report

on

Online Shopping Management Database System

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Submitted to:

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MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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CERTIFICATE

This is certified that **Pradhumn Singh Sikarwar** (0901CS201084) has submitted the project report titled **Online Shopping Management Database System** under the mentorship of **Jaimala Jha**, in partial fulfilment of the requirement for the award of degree of Bachelor of Technology in Computer Science and Engineering from Madhav Institute of Technology and Science, Gwalior.

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DECLARATION

I hereby declare that the work being presented in this project report, for the partial fulfilment of requirement for the award of the degree of Bachelor of Technology in Computer Science and Engineering at Madhav Institute of Technology & Science, Gwalior is an authenticated and original record of my work under the mentorship of Ms. **Jaimala Jha**, **Assistant Professor**, CSE

I declare that I have not submitted the matter embodied in this report for the award of any degree or diploma anywhere else.

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ABSTRACT

This project is an attempt to provide the advantages of online shopping to customers of a real shop. It helps buying the products in the shop anywhere through internet by using an android device. Thus, the customer will get the service of online shopping and home delivery from his favourite shop. This system involves its own database to be maintained. As the information or details about the products are stored in the database for the server-side functionalities. The Server process is for dealing with the customer's detail and the items that are shipped to different locations based on the addresses provided by the customers. This system can be implemented to any shop in the locality or to multinational branded shops having retail outlet chains. If shops are providing an online portal where their customers can enjoy easy shopping from anywhere, the shops will not be losing any more

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Chapter 1: INTRODUCTION

1.1 INTRODUCTION

Online Shopping is the way or a process whereby consumers directly buy goods and services from a seller in real-time, without an intermediary service, over the Internet. It is a form of electronic commerce. This project is an attempt to provide the advantages of online shopping to customers of a real shop. One of the biggest benefits of using a database for e-commerce is structuring vast amounts of shop data It helps buying the products in the shop anywhere through internet by using an android device. Thus, the customer will get the service of online shopping and home delivery from his favourite shop

In an e-commerce application, the main purpose of a database is to store information for retrieving the product details, customer information, track transactions, and further, maintain the inventory. When the data is organized in a proper format, it can be accessed more efficiently by e-commerce applications

Database plays a very critical and important role in the e-commerce industry, in today's scenario the reason behind the success of an e-commerce firm is how much it has optimized its database. Because today's consumers rely heavily on technology, e-commerce firms must use it to their advantage.

1.2Project Objective

The objective of the project is to make an application in android platform to purchase items in an existing shop. In order to build such an application complete web support, need to be provided. This is the entity representing the whole online shopping system which further contains several other entities describing the entire application. complete and efficient web application which can provide the online shopping experience is the basic objective of the project. The web application can be implemented in the form of an android application with web view

1.3 OVERVIEW

This system involves its own database to be maintained. As the information or details about the products are stored in the database (like RDBMS, online databases on a paid basis like firebase, etc.) for the server-side functionalities. The Server process is for dealing with the customer's detail and the items that are shipped to different locations based on the addresses provided by the customers.

Chapter 2: DEVELOPMENT TOOLS

2.3 Introduction to Development Tools

2.3.1 SQL language

SQL is the abbreviation of Structured Query Language, the earliest developed by IBM in 1970, after the International Organization for Standardization ISO Association adopted as an international standard, which combines data manipulation, definition, control and management functions in one, easy to learn and use.

- Advantages of SQL language:

  Non-procedural language for set manipulation.

  Integration.

  The common language of all relational databases.

2.3.2 ACCESS 2000 Database

Access is Microsoft Corporation began in 1994 published computer database management system. As a powerful MIS system development tool, it has a friendly interface, easy to learn and use, simple development, flexible interface, and other characteristics, is a typical new generation of data management and information systems development tools

2.1 Hardware Essentials

- Processor: Minimum 1 GHz; Recommended 2GHz or more.
- Ethernet connection (LAN) OR a wireless adapter (Wi-Fi).
- Hard Drive: Minimum 32 GB; Recommended 64 GB or more.
- Memory (RAM): Minimum 1 GB; Recommended 4 GB or above.

2.2 Software Essentials

- Any Web Browser (e.g., Chrome).
- Operating system: Windows or MacOS or Linux.
- Language: SQL Language.
- Database: Access 2000.

Chapter: DATABASE IMPLEMENTATION

3.1 Table structure for table

Table structure for table admin_info

```
CREATE TABLE admin_info (
  admin_id int NOT NULL,
  admin_name varchar(100) NOT NULL,
  admin_email varchar(300) NOT NULL,
  admin_password varchar(300) NOT NULL
);
```

3.2 Insertion of data

Insertion of data

```
INSERT INTO admin_info (admin_id, admin_name, admin_email, admin_password) VALUES
(1, 'admin', 'admin@gmail.com', '25f9e794323b453885f5181f1b624d0b');
```

Table structure for table brands

```
CREATE TABLE brands (
  brand_id int NOT NULL,
  brand_title text NOT NULL
);
```

Insertion of data

```
INSERT INTO brands (brand_id, brand_title) VALUES
(1, 'HP'),
(2, 'Samsung'),
(3, 'Apple'),
(4, 'motorolla'),
(5, 'LG'),
```

(6, 'Cloth Brand');

Table structure for table cart

```
CREATE TABLE cart (
id int NOT NULL,
p_id int NOT NULL,
ip_add varchar(250) NOT NULL,
user_id int DEFAULT NULL,
qty int NOT NULL
);
```

Insertion of data

```
INSERT INTO cart (id, p_id, ip_add, user_id, qty) VALUES
(6, 26, '::1', 4, 1),
(9, 10, '::1', 7, 1),
(10, 11, '::1', 7, 1),
(11, 45, '::1', 7, 1),
(44, 5, '::1', 3, 0),
(46, 2, '::1', 3, 0),
(48, 72, '::1', 3, 0),
(71, 61, '127.0.0.1', -1, 1);
```

Table structure for table categories

```
CREATE TABLE categories (
cat_id int NOT NULL,
cat_title text NOT NULL
);
```

Insertion of data

```
INSERT INTO categories (cat_id, cat_title) VALUES
(1, 'Electronics'),
(2, 'Ladies Wears'),
(3, 'Mens Wear'),
(4, 'Kids Wear'),
```

(5, 'Furnitures'),
(6, 'Home Appliances'),
(7, 'Electronics Gadgets');

Table structure for table email_info

```
CREATE TABLE email_info (
  email_id int NOT NULL,
  email text NOT NULL
);
```

Insertion of data

```
INSERT INTO email_info (email_id, email) VALUES
(3, 'admin@gmail.com'),
(4, 'puneethreddy951@gmail.com'),
(5, 'puneethreddy@gmail.com');
```

Table structure for table logs

```
CREATE TABLE logs (
  id int NOT NULL,
  user_id varchar(50) NOT NULL,
  action varchar(50) NOT NULL,
  date datetime NOT NULL
);
```

Table structure for table orders

```
CREATE TABLE orders (
  order_id int NOT NULL,
  user_id int NOT NULL,
  product_id int NOT NULL,
  qty int NOT NULL,
  trx_id varchar(255) NOT NULL,
  p_status varchar(20) NOT NULL
);
```

Insertion of data

```
INSERT INTO orders (order_id, user_id, product_id, qty,trx_id, p_status) VALUES
(1, 12, 7, 1, '07M47684BS5725041', 'Completed'),
```

(2, 14, 2, 1, '07M47684BS5725041', 'Completed');

Table structure for table orders_info

```
CREATE TABLE orders_info (
  order_id int NOT NULL,
  user_id int NOT NULL,
  f_name varchar(255) NOT NULL,
  email varchar(255) NOT NULL,
  address varchar(255) NOT NULL,
  city varchar(255) NOT NULL,
  state varchar(255) NOT NULL,
  zip int NOT NULL,
  cardname varchar(255) NOT NULL,
  cardnumber varchar(20) NOT NULL,
  expdate varchar(255) NOT NULL,
  prod_count int DEFAULT NULL,
  total_amt int DEFAULT NULL,
  cvv int NOT NULL
);
```

Insertion of data

INSERT INTO orders_info (order_id, user_id, f_name, email, address, city, state, zip, cardname, cardnumber, expdate, prod_count, total_amt, cvv) VALUES
(1, 12, 'Pradhumn', 'pradhumn951@gmail.com', 'Thatipur', 'Gwalior', 'mp', 560074, 'pokjhgfcxc', '4321 2345 6788 7654', '12/90', 3, 77000, 1234);

Table structure for table order_products

```
CREATE TABLE order_products (
  order_pro_id int NOT NULL,
  order_id int NOT NULL,
  product_id int NOT NULL,
  qty int DEFAULT NULL,
  amt int DEFAULT NULL
);
```

Insertion of data

INSERT INTO order_products (order_pro_id, order_id, product_id, qty, amt) VALUES
(73, 1, 1, 1, 5000),
(74, 1, 4, 2, 64000),
(75, 1, 8, 1, 40000);

Table structure for table products

CREATE TABLE products (
  product_id int NOT NULL,
  product_cat int NOT NULL,
  product_brand int NOT NULL,
  product_title varchar(255) NOT NULL,
  product_price int NOT NULL,
  product_desc text NOT NULL,
  product_image text NOT NULL,
  product_keywords text NOT NULL
) ;

Insertion of data

INSERT INTO products (product_id, product_cat, product_brand, product_title, product_price, product_desc, product_image, product_keywords) VALUES
(1, 1, 2, 'Samsung galaxy s7 edge', 5000, 'Samsung galaxy s7 edge', 'product07.png', 'samsung mobile electronics'),
(4, 1, 3, 'iPhone 6s', 32000, 'Apple iPhone ', 'http___pluspng.com_img-png_iphone-6s-png-iphone-6s-gold-64gb-1000.png', 'iphone apple mobile'),
(7, 1, 1, 'Laptop Pavillion', 50000, 'Laptop Hp Pavillion', 'laptop_PNG5930.png', 'Laptop Hp Pavillion'),
(8, 1, 4, 'Sony', 40000, 'Sony Mobile', '530201353846AM_635_sony_xperia_z.png', 'sony mobile'),
(10, 2, 6, 'Ladies dress', 1000, 'red dress for girls', 'red dress.jpg', 'red dress '),
(11, 2, 6, 'Heave dress', 1200, 'Blue dress', 'images.jpg', 'blue dress cloths'),
(12, 2, 6, 'Ladies Casual Cloths', 1500, 'ladies casual summer two colors pleted', '7475-ladies-casual-dresses-summer-two-colors-pleated.jpg', 'girl dress cloths casual'),
(19, 3, 6, 'Formal Coat', 3000, 'ad', 'images (1).jpg', 'coat blazer gents'),
(33, 6, 2, 'Refrigerator', 35000, 'Refrigerator', 'CT_WM_BTS-BTC-AppliancesHome_20150723.jpg', 'refrigerator samsung'),
(34, 6, 4, 'Emergency Light', 1000, 'Emergency Light', 'emergency light.JPG', 'emergency light'),
(35, 6, 0, 'Vaccum Cleaner', 6000, 'Vaccum Cleaner', 'images (2).jpg', 'Vaccum Cleaner'),
(36, 6, 5, 'Iron', 1500, 'gj', 'iron.JPG', 'iron'),
(37, 6, 5, 'LED TV', 20000, 'LED TV', 'images (4).jpg', 'led tv lg'),

(38, 6, 4, 'Microwave Oven', 3500, 'Microwave Oven', 'images.jpg', 'Microwave Oven'),
(39, 6, 5, 'Mixer Grinder', 2500, 'Mixer Grinder', 'singer-mixer-grinder-mg-46-medium_4bfa018096c25dec7ba0af40662856ef.jpg', 'Mixer Grinder'),
(40, 2, 6, 'Formal girls dress', 3000, 'Formal girls dress', 'girl-walking.jpg', 'ladies'),
(79, 7, 2, 'camera with 3D pixels', 2569, 'camera with 3D pixels', 'product09.png', 'camera with 3D pixels camera electronics gadgets'),
(81, 4, 6, 'Kids blue dress', 300, 'blue dress', '1543993724_pg4.jpg', 'kids blue dress');

Table structure for table user_info

```
CREATE TABLE user_info (
  user_id int NOT NULL,
  first_name varchar(100) NOT NULL,
  last_name varchar(100) NOT NULL,
  email varchar(300) NOT NULL,
  password varchar(300) NOT NULL,
  mobile varchar(10) NOT NULL,
  address1 varchar(300) NOT NULL,
  address2 varchar(11) NOT NULL
);
```

Insertion of data

INSERT INTO user_info (user_id, first_name, last_name, email, password, mobile, address1, address2) VALUES
(12, 'Pradhumn', 'Singh', 'pradhumsingh951@gmail.com', 'abcd', '9448121558', '123456789', 'sdcjns,djc'),
(15, 'Mohit', 'Bansal', 'mohitbansal951@gmail.com', '346778', '536487276', ',mdnbca', 'asdmhmhvbv'),
(16, 'Samaridhi', 'Jain', 'samaridhijain@gmail.com', '1234534', '9877654334', 'snhdgvajfehyfygv', 'asdjbhfkeur'),
(25, 'otheruser', 'user', 'otheruser@gmail.com', 'sjdbfjasb', '9535688928', 'Bangalore', 'Kumbalagodu');

3.3 Indexes for table

Indexes for table admin_info

```
ALTER TABLE admin_info
 ADD PRIMARY KEY (admin_id);
```

Indexes for table brands

```
ALTER TABLE brands
 ADD PRIMARY KEY (brand_id);
```

Indexes for table cart

```
ALTER TABLE cart
ADD PRIMARY KEY (id);
```

Indexes for table categories

```
ALTER TABLE categories
ADD PRIMARY KEY (cat_id);
```

Indexes for table email_info

```
ALTER TABLE email_info
ADD PRIMARY KEY (email_id);
```

Indexes for table logs

```
ALTER TABLE logs
ADD PRIMARY KEY (id);
```

Indexes for table orders

```
ALTER TABLE orders
ADD PRIMARY KEY (order_id);
```

Indexes for table orders_info

```
ALTER TABLE orders_info  ADD PRIMARY KEY (order_id);
ALTER TABLE orders_info ALTER COLUMN user_id int ;
```

Indexes for table order_products

```
ALTER TABLE order_products  ADD PRIMARY KEY (order_pro_id);
```

Indexes for table products

```
ALTER TABLE products
ADD PRIMARY KEY (product_id);
```

Indexes for table user_info

```
ALTER TABLE user_info
ADD PRIMARY KEY (user_id);
```

3.4 Constraints for table

Constraints for table orders_info

```
ALTER TABLE orders_info
 ADD CONSTRAINT user_id FOREIGN KEY (user_id) REFERENCES user_info (user_id);
```

Constraints for table order_products

```
ALTER TABLE order_products  ADD CONSTRAINT order_products FOREIGN KEY (order_id)
REFERENCES orders_info (order_id) ON DELETE NO ACTION ON UPDATE CASCADE;

ALTER TABLE order_products  ADD CONSTRAINT orde_info FOREIGN KEY (product_id)
REFERENCES products (product_id);
select * from admin_info;
select * from brands cart;
select * from categories ;
select * from email_info;
select * from logs orders ;
select * from orders_info ;
select * from order_products;
select * from products;
select * from user_info;
```

Output

	admin_id	admin_name	admin_email	admin_password
1	1	pradhumn	pradhumngmail.com	25f9e794323b453885f5181f1b624d0b

	brand_id	brand_title
1	1	HP
2	2	Samsung
3	3	Apple
4	4	motorolla
5	5	LG
6	6	Cloth Br...

	cat_id	cat_title
1	1	Electronics
2	2	Ladies Wears
3	3	Mens Wear
4	4	Kids Wear
5	5	Furnitures
6	6	Home Appli...
7	7	Electronics ...

	email_id	email
1	3	pradhumn@gmail.com
2	4	samaridhi951@gmail.com
3	5	mohit@gmail.com

	id	user_id	action	date

	order_id	user_id	f_name	email	address	city	state	zip	cardname	cardnumber	expdate	prod_count	total_amt	cvv
1	1	12	Pradhumn	pradhumn951@gmail.com	Thatipur	Gwalior	mp	560074	pokjhgfcxc	4321 2345 6788 7654	12/90	3	77000	1234

	order_pro_id	order_id	product_id	qty	amt
1	73	1	1	1	5000
2	74	1	4	2	64000
3	75	1	8	1	40000

	product_id	product_cat	product_brand	product_title	product_price	product_desc	product_image	product_keywords
1	1	1	2	Samsung galaxy s7 edge	5000	Samsung galaxy s7 edge	product07.png	samsung mobile electronics
2	4	1	3	iPhone 6s	32000	Apple iPhone	http___pluspng.com_img-png_iphone-6s-png-iphone-...	iphone apple mobile
3	7	1	1	Laptop Pavillion	50000	Laptop Hp Pavillion	laptop_PNG5930.png	Laptop Hp Pavillion
4	8	1	4	Sony	40000	Sony Mobile	530201353846AM_635_sony_xperia_z.png	sony mobile
5	10	2	6	Ladies dress	1000	red dress for girls	red dress.jpg	red dress
6	11	2	6	Heave dress	1200	Blue dress	images.jpg	blue dress cloths
7	12	2	6	Ladies Casual Cloths	1500	ladies casual summer t...	7475-ladies-casual-dresses-summer-two-colors-pleate...	girl dress cloths casual
8	19	3	6	Formal Coat	3000	ad	images (1).jpg	coat blazer gents
9	33	6	2	Refrigerator	35000	Refrigerator	CT_WM_BTS-BTC-AppliancesHome_20150723.jpg	refrigerator samsung
10	34	6	4	Emergency Light	1000	Emergency Light	emergency light.JPG	emergency light
11	35	6	0	Vaccum Cleaner	6000	Vaccum Cleaner	images (2).jpg	Vaccum Cleaner
12	36	6	5	Iron	1500	gj	iron.JPG	iron
13	37	6	5	LED TV	20000	LED TV	images (4).jpg	led tv lg
14	38	6	4	Microwave Oven	3500	Microwave Oven	images.jpg	Microwave Oven
15	39	6	5	Mixer Grinder	2500	Mixer Grinder	singer-mixer-grinder-mg-46-medium_4bfa018096c25d...	Mixer Grinder
16	40	2	6	Formal girls dress	3000	Formal girls dress	girl-walking.jpg	ladies
17	79	7	2	camera with 3D pixels	2569	camera with 3D pixels	product09.png	camera with 3D pixels ca...
18	81	4	6	Kids blue dress	300	blue dress	1543993724_pg4.jpg	kids blue dress

	user_id	first_name	last_name	email	password	mobile	address1	address2
1	12	Pradhumn	Singh	pradhumsingh951@gmail.com	abcd	9448121558	123456789	sdcjns,djc
2	15	Mohit	Bansal	mohitbansal951@gmail.com	346778	536487276	,mdnbca	asdmhmhvbv
3	16	Samaridhi	Jain	samaridhijain@gmail.com	1234534	9877654334	snhdgvajf...	asdjbhfkeur

Fig. 1

Chapter: RESULT & CONCLUSION

4.1 Conclusion

The system has been developed with much care and free of errors and at the same time it is efficient and less time consuming. The entire system is secured. The purpose of this project was to develop a web application and an android application for purchasing items from a shop.
This project helped us in gaining valuable information and practicalknowledge on several topics like designi ng web pages using html &css, usage of responsive templates, designing of android applications, and management of database using mysql. The entire system is secured. Also, the project helped us understanding about the development phases of a project and software development life cycle. We learned how to test different features of a project.
This project has given us great satisfaction in having designed anapplication which can be implemented to any nearby shops or branded shops selling various kinds of products by simple modifications.

4.2 Future Scope

- There is a scope for further development in our project to a great extent.
- Completing the financial management and pricing management module in this system. To be effective on daily based programs.
- System may keep track of history of purchases of each customer and provide suggestions based on their history.

List of References

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https://www.geeksforgeeks.org/sql-tutorial/?ref=ghm