ART GALLARY DATABASE

A Project Report

Submitted to

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Submitted by

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At last, but not the least we consider ourself proud to be a part of UniversityInstitute of Computing, Chandigarh University.

INTRODUCTION

The Art Gallery Management System has been designed to override the problem of existing manual system. This web application is supported to eliminate and, in some case, reduce the hardship faced by manual system. The application is reduced as much as possible to avoid errors while entering the data. It's also provided message while entering invalid data. No formal knowledge is required for the user to operate this system. Overall, we said that Art Gallery Management System is user friendly. In Art Gallery Management System we use PHP and MySQL Database. This project keeps the records of user enquiry, art products and art artist. Art Gallery Management System has two modules i.e. admin and user.

The Art Gallery Database project aims to design and develop a comprehensive database system for managing artwork, artist information, exhibitions, and gallery operations. This database will provide a centralized platform for art galleries to efficiently manage their collections, streamline operations, and enhance visitor experiences.

The Art Gallery Database project involves designing and developing a robust database management system to store and manage artwork, artist information, exhibitions, sales, and visitor data. The database will provide features for:

- Artwork cataloguing and search
- Artist profiles and portfolios
- Exhibition scheduling and management
- Sales and inventory tracking
- Visitor tracking and engagement metrics

SQL which is an abbreviation for **Structured Query Language** is a language to request data from a database, to add, update, or remove data within a database, or to manipulate the metadata of the database.

Sometimes SQL is characterized as *non-procedural* because procedural languages generally require the details of the operations to be specified, such as opening and closing tables, loading and searching indexes, or flushing buffers and writing data to file systems. Therefore, SQL is designed at a higher conceptual level of operation than procedural languages.

The "front end languages" live in the browser. After you type in an address in the address bar at the top and hit Enter, your browser will receive an at least an HTML file from the web server.

Each of these languages performs a separate but very important function but the work harmoniously

together to determine how the web page is STRUCTURED(HTML), how it LOOKS(CSS), and how its FUNCTIONS (JavaScript).

Front end web development is NOT design (You won't be playing around in Photoshop or anything), but a *front-end developer* does apply the work of designers to the web page by translating their well-designed layouts into real code. The front-end developer stands between the designer on one end and the back-end developer on the other, translating the design into code and plugging the data from the back-end developer into the right spots.

PHP is a server-side scripting language designed primarily for web development but also used as a general-purpose programming language. Originally created by Rasmus Lerdorf in 1994, the PHP reference implementation is now produced by The PHP Development Team.

PHP code may be embedded into HTML or it can be used in combination with various web template systems, web content management systems and web frameworks. PHP code is usually processed by a PHP interpreter implemented as a module in the web server or as a Common Gateway Interface (CGI) executable. The web server software combines the result of the interpreted and executed PHP code, which may be any type of data, including images, with the generated web page. PHP code may also be executed with a command-line interface (CLI) and it can be used to implement stand-alone graphical applications.

The standard PHP interpreter, powered by the Zend Engine, is free to use software released under the PHP License. PHP code is usually processed by a PHP interpreter implemented as a module in the web server or as Common Gateway Interface(CGI) executable. PHP has been widely ported on web servers on almost every operating system and platform, free of charge.

REQUIREMENTS SPECIFICATION

➢ SOFTWARE REQUIREMENTS

Operating System	:	64bit WINDOWS Operating System, X64-based processor
Database	:	MYSQL
Scripting Language	:	HTML5, CSS3, PHP
Server	:	WAMP

➢ HARDWARE REQUIREMENTS

Processor	:	Intel Celeron CPU N3060 @1.60GHz or Above
RAM	:	4.00 GB or Above
Hard Disk	:	1 TB
Compact Disk	:	CD-ROM, CD-R, CD-RW
Input device	:	Keyboard

OBJECTIVE OF THE PROJECT

The main objective of creating an Art Gallery database project is

- To manage the details of gallery, exhibition, artwork and artist. It manages all the sales and inventory in the gallery. The purpose of the project is to build and application program to reduce the manual work.

- To tracks all the details about the sales of the artwork, the customer that bought it, etc. It manages the information about the artwork. Provides an information and description of the artworks left, thereby increasing the efficiency of managing the gallery. The organisation can maintain a computerized record of the artwork present in the gallery.

- To helps in the utilization of the resources in an effective manner. It maintains a list of all the customers and the various artwork that they have bought and the money that have invested in each.

- To maintains the record of exhibitions and various sales made during it. The objective of developing such computerized system is to reduce the paper work and safe of time in art gallery database management, thereby increasing the efficiency and decreasing the work load.

- To develop such computerized system is to reduce the paper work and safe of time in art gallery database management, thereby increasing the efficiency and decreasing the work load.

IMPLEMENTATION

ER DIAGRAM

1. An **entity-relationship model (ER Model)** describes inter-related things of interest in a specific domain of knowledge. An ER model is composed of entity types (which classify the things of interest) and specifies relationships that can exist between instances of those entity types.

2. An entity may be defined as a thing capable of an independent existence that can be uniquely identified. An entity is an abstraction from the complexities of a domain.

3. Attributes are drawn as ovals and are connected with a line to exactly one entity or relationship set.

4. An entity relationship model, also called an entity-relationship (ER) diagram, is a graphical representation of entities and their relationships to each other, typically used in computing in regard to the organization of data within databases or information systems.

5. Cardinality constraints are expressed as follows:

   a. A double line indicates a participation constraint, totality or subjectivity: all entities in the entity set must participate in at least one relationship in the relationship set.

   b. An arrow from entity set to relationship set indicates a key constraint, i.e. injectivity: each entity of the entity set can participate in at most one relationship in the relationship set.

   c. A thick line indicates both, i.e. bijectivity: each entity in the entity set is involved in exactly one relationship.

   d. An underlined name of an attribute indicates that it is a key: two different entities or relationships with this attribute always have different values for this attribute.

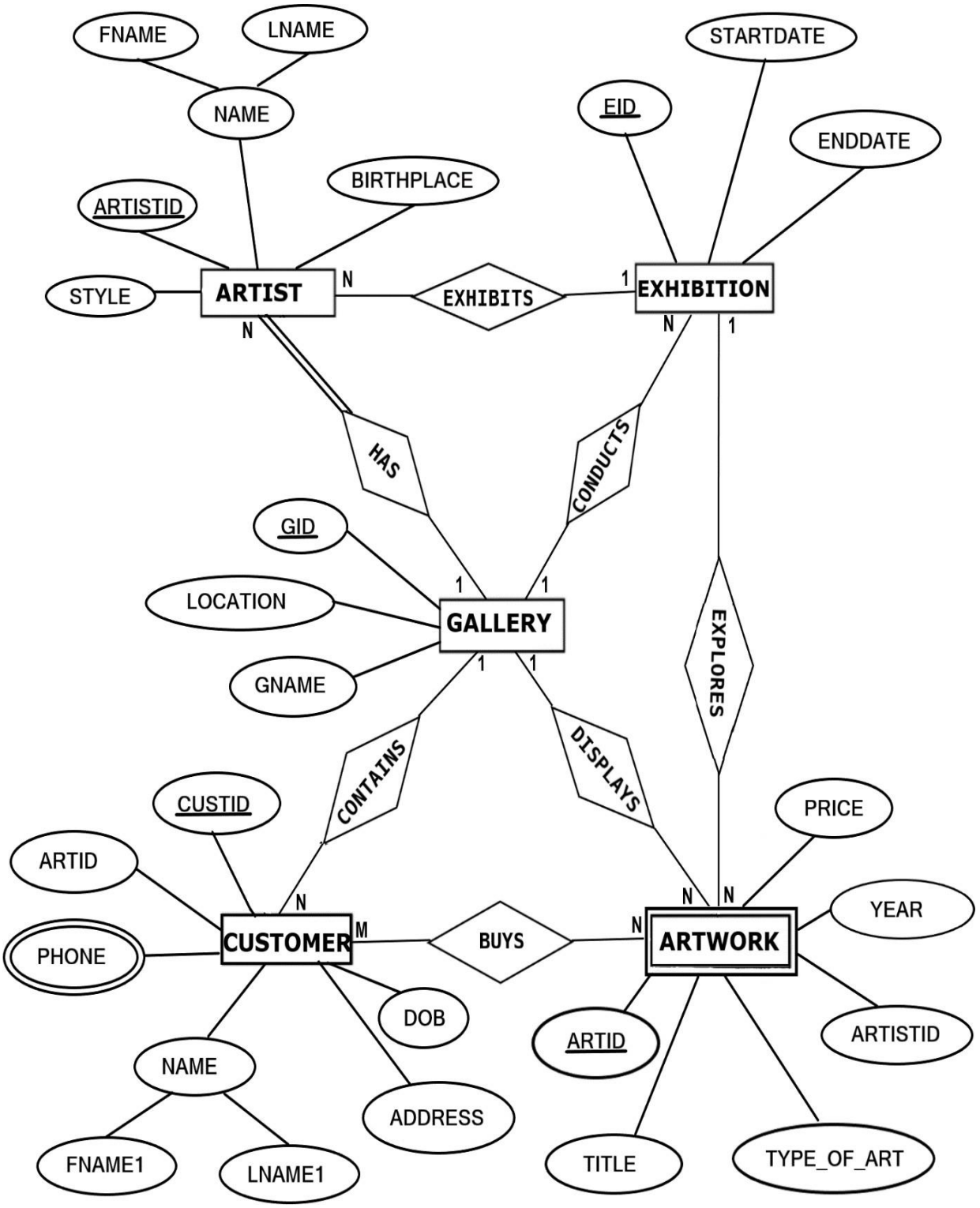

FIGURE: ER DIAGRAM of ART GALLERY DATABASE

BACKEND DESIGN

```sql
-- phpMyAdmin SQL Dump
-- version 4.9.0.1
-- https://www.phpmyadmin.net/
--
-- Host: 127.0.0.1
-- Generation Time: Jan 02, 2023 at 08:16 PM
-- Server version: 10.3.15-MariaDB
-- PHP Version: 7.2.19

SET SQL_MODE = "NO_AUTO_VALUE_ON_ZERO";
SET AUTOCOMMIT = 0;
START TRANSACTION;
SET time_zone = "+00:00";


/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
/*!40101 SET NAMES utf8mb4 */;

--
-- Database: `agmsdb`
-- --------------------------------------------------------
-- Table structure for table `tbladmin`
--

CREATE TABLE `tbladmin` (
  `ID` int(10) NOT NULL,
  `AdminName` varchar(45) DEFAULT NULL,
  `UserName` varchar(50) DEFAULT NULL,
  `MobileNumber` bigint(10) DEFAULT NULL,
  `Email` varchar(120) DEFAULT NULL,
  `Password` varchar(120) DEFAULT NULL,
  `AdminRegdate` timestamp NULL DEFAULT current_timestamp()
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--
-- Dumping data for table `tbladmin`
--

INSERT INTO `tbladmin` (`ID`, `AdminName`, `UserName`, `MobileNumber`, `Email`,
`Password`, `AdminRegdate`) VALUES
(1, 'Admin', 'admin', 987654331, 'tester1@gmail.com',
'f925916e2754e5e03f75dd58a5733251', '2022-12-29 06:21:53');

-- --------------------------------------------------------
```

```
44
45  --
46  -- Table structure for table `tblartist`
47  --
48
49  CREATE TABLE `tblartist` (
50    `ID` int(10) NOT NULL,
51    `Name` varchar(250) DEFAULT NULL,
52    `MobileNumber` bigint(10) DEFAULT NULL,
53    `Email` varchar(250) DEFAULT NULL,
54    `Education` mediumtext DEFAULT NULL,
55    `Award` mediumtext DEFAULT NULL,
56    `Profilepic` varchar(250) DEFAULT NULL,
57    `CreationDate` timestamp NULL DEFAULT current_timestamp()
58  ) ENGINE=InnoDB DEFAULT CHARSET=latin1;
59
60  --
61  -- Dumping data for table `tblartist`
62  --
63
64  INSERT INTO `tblartist` (`ID`, `Name`, `MobileNumber`, `Email`, `Education`,
    `Award`, `Profilepic`, `CreationDate`) VALUES
65  (1, 'Mohan Das', 7987987987, 'mohan@gmail.com', 'Completed his fine arts from kg
    fine arts college.\r\nSpecialized in drawing and ceramic.', 'Winner of Hugo Boss
    Prize in 2019, MacArthur Fellowship\r\n', 'ecebbecf28c2692aeb021597fbddb174.jpg',
    '2022-12-21 13:31:25'),
66  (2, 'Dev', 3287987987, 'dev@gmail.com', 'Completed his fine arts from kg fine
    arts college.\r\nSpecialized in painting and ceramic.', 'Winner of Hugo Boss
    Prize in 2019, MacArthur Fellowship\r\n', 'ad04ad2d96ae326a9ca9de47d9e2fc74.jpg',
    '2022-12-21 13:31:25'),
67  (3, 'Kanha', 9687987987, 'kanha@gmail.com', 'Completed his fine arts from kg fine
    arts college.\r\nSpecialized in painting and ceramic.', 'Winner of Hugo Boss
    Prize in 2019, MacArthur Fellowship\r\n', 'ad04ad2d96ae326a9ca9de47d9e2fc74.jpg',
    '2022-12-21 13:31:25'),
68  (4, 'Abir Rajwansh', 5687987987, 'abir@gmail.com', 'Completed his fine arts from
    klijfine arts college.\r\nSpecialized in painting and ceramic.', 'Winner of Hugo
    Boss Prize in 2019, MacArthur Fellowship\r\n',
    'ad04ad2d96ae326a9ca9de47d9e2fc74.jpg', '2022-12-21 13:31:25'),
69  (5, 'Krisna Dutt', 9187987987, 'krish@gmail.com', 'Completed his fine arts from
    kg fine arts college.\r\nSpecialized in painting and ceramic.', 'Winner of Hugo
    Boss Prize in 2019, MacArthur Fellowship\r\n',
    'ad04ad2d96ae326a9ca9de47d9e2fc74.jpg', '2022-12-21 13:31:25'),
70  (6, 'Kajol Mannati', 8187987987, 'kajol@gmail.com', 'Completed his fine arts from
    kg fine arts college.\r\nSpecialized in painting and ceramic.', 'Winner of Hugo
    Boss Prize in 2019, MacArthur Fellowship\r\n',
    'ad04ad2d96ae326a9ca9de47d9e2fc74.jpg', '2022-12-21 13:31:25'),
71  (7, 'Meera Singh', 2987987987, 'meera@gmail.com', 'Fine Arts in Painting from
    College of Art, New Delhi in 2012,\r\nSpecialized in printmaking and ceramic.',
    'award-winning artist, and has received a scholarship from the Ministry of
```

```
    Culture, Government of India in 2014 as well as the Jean-Claude Reynal
    Scholarship (France) in 2019.\r\n', 'ad04ad2d96ae326a9ca9de47d9e2fc74.jpg',
    '2022-12-21 13:31:25'),
72  (8, 'Narayan Das', 9987987987, 'narayan@gmail.com', 'Completed his fine arts from
    hjai fine arts college.\r\nSpecialized in painting and ceramic.', 'Winner of
    Young Artist Award in 2009, MacArthur Fellowship\r\n',
    'ad04ad2d96ae326a9ca9de47d9e2fc74.jpg', '2022-12-21 13:31:25');
73
74  -- --------------------------------------------------------
75  -- Table structure for table `tblartmedium`
76
77  CREATE TABLE `tblartmedium` (
78    `ID` int(5) NOT NULL,
79    `ArtMedium` varchar(250) DEFAULT NULL,
80    `CreationDate` timestamp NULL DEFAULT current_timestamp()
81  ) ENGINE=InnoDB DEFAULT CHARSET=latin1;
82
83  --
84  -- Dumping data for table `tblartmedium`
85  --
86
87  INSERT INTO `tblartmedium` (`ID`, `ArtMedium`, `CreationDate`) VALUES
88  (1, 'Wood and Bronze', '2022-12-22 04:57:04'),
89  (2, 'Acrylic on canvas', '2022-12-22 04:57:34'),
90  (3, 'Resin', '2022-12-22 04:58:00'),
91  (4, 'Mixed Media', '2022-12-22 06:09:12'),
92  (5, 'Bronze', '2022-12-22 06:09:35'),
93  (6, 'Fibre', '2022-12-22 06:09:53'),
94  (7, 'Steel', '2022-12-22 06:10:16'),
95  (8, 'Metal', '2022-12-22 06:10:35'),
96  (9, 'Oil on Canvas', '2022-12-22 06:11:31'),
97  (10, 'Oil on Linen', '2022-12-22 06:12:12'),
98  (11, 'Acrylics on paper', '2022-12-22 06:13:11'),
99  (12, 'Hand-painted on particle wood/MDF', '2022-12-22 06:14:03');
100
101 -- --------------------------------------------------------
102 -- Table structure for table `tblartproduct`
103
104 CREATE TABLE `tblartproduct` (
105   `ID` int(5) NOT NULL,
106   `Title` varchar(250) DEFAULT NULL,
107   `Dimension` varchar(250) DEFAULT NULL,
108   `Orientation` varchar(100) DEFAULT NULL,
109   `Size` varchar(100) DEFAULT NULL,
110   `Artist` int(5) DEFAULT NULL,
111   `ArtType` int(5) DEFAULT NULL,
112   `ArtMedium` int(5) DEFAULT NULL,
113   `SellingPricing` decimal(10,0) DEFAULT NULL,
114   `Description` mediumtext DEFAULT NULL,
```

```
  `Image` varchar(250) DEFAULT NULL,
  `Image1` varchar(250) DEFAULT NULL,
  `Image2` varchar(250) DEFAULT NULL,
  `Image3` varchar(250) DEFAULT NULL,
  `Image4` varchar(250) DEFAULT NULL,
  `RefNum` int(10) DEFAULT NULL,
  `CreationDate` timestamp NULL DEFAULT current_timestamp()
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--
-- Dumping data for table `tblartproduct`
--

INSERT INTO `tblartproduct` (`ID`, `Title`, `Dimension`, `Orientation`, `Size`, `Artist`, `ArtType`, `ArtMedium`, `SellingPricing`, `Description`, `Image`, `Image1`, `Image2`, `Image3`, `Image4`, `RefNum`, `CreationDate`) VALUES
(2, 'Radhe Krishna Painting', '56x56', 'Landscape', 'Medium', 1, 4, 9, '200', 'It is a painting of Radha Krishna.\r\nIt is a painting of Radha Krishna.\r\nIt is a painting of Radha Krishna.It is a painting of Radha Krishna.\r\nIt is a painting of Radha Krishna.It is a painting of Radha Krishna.It is a painting of Radha Krishna.', 'c565ad988a4c6fc0a9f429af43c47cce1671771454.jpg', '48424793dc9ea732f6118d4ba4326509.jpg', '', '', '', 586429003, '2022-12-23 04:57:34'),
(3, 'Shiv Tandav Painting', '100X50 inches', 'Potrait', 'Large', 6, 4, 10, '350', 'It is a painting of shiv tandav.\r\nIt is a painting of shiv tandav.\r\nIt is a painting of shiv tandav.It is a painting of shiv tandav.It is a painting of shiv tandav.It is a painting of shiv tandav.It is a painting of shiv tandav.\r\nIt is a painting of shiv tandav.It is a painting of shiv tandav.', 'cd235e034297cda7b6f935dbd4881a2f1671771582.jpg', 'cd235e034297cda7b6f935dbd4881a2f1671771582.jpg', '', '', '', 686429002, '2022-12-23 04:59:42'),
(4, 'Stutue of Afel Tower', '45 inches tall', 'Landscape', 'Medium', 7, 1, 8, '500', 'It is a stute of afel tower which is made up of metal,It is a stute of afel tower which is made up of metal,It is a stute of afel tower which is made up of metal,It is a stute of afel tower which is made up of metal,It is a stute of afel tower which is made up of metal,It is a stute of afel tower which is made up of metal,', '508652faabdd333b34a0ce4a1dd443411671771753.jpg', '', '', '', '', 686429003, '2022-12-23 05:02:33'),
(5, 'HKjhkj', '100x200', 'Landscape', 'Large', 7, 3, 9, '200', 'gjhgj', '7d108db512f6a6a929cd0d0ad3b593e81671772410.jpg', '', '', '', '', 586429004, '2022-12-23 05:13:30');

--
-- --------------------------------------------------------
-- Table structure for table `tblarttype`
--

CREATE TABLE `tblarttype` (
  `ID` int(5) NOT NULL,
```

```
  `ArtType` varchar(250) DEFAULT NULL,
  `CreationDate` timestamp NULL DEFAULT current_timestamp()
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--
-- Dumping data for table `tblarttype`
--

INSERT INTO `tblarttype` (`ID`, `ArtType`, `CreationDate`) VALUES
(1, 'Sculptures', '2022-12-21 14:21:13'),
(2, 'Serigraphs', '2022-12-21 14:24:46'),
(3, 'Prints', '2022-12-21 14:25:00'),
(4, 'Painting', '2022-12-21 14:25:31'),
(5, 'Street Art', '2022-12-21 14:26:06'),
(6, 'Visual art ', '2022-12-21 14:26:29'),
(7, 'Conceptual art', '2022-12-21 14:26:45');

-- --------------------------------------------------------
-- Table structure for table `tblenquiry`
--

CREATE TABLE `tblenquiry` (
  `ID` int(10) NOT NULL,
  `EnquiryNumber` varchar(10) NOT NULL,
  `Artpdid` int(9) DEFAULT NULL,
  `FullName` varchar(120) DEFAULT NULL,
  `Email` varchar(250) DEFAULT NULL,
  `MobileNumber` bigint(10) DEFAULT NULL,
  `Message` varchar(250) DEFAULT NULL,
  `EnquiryDate` timestamp NULL DEFAULT current_timestamp(),
  `Status` varchar(10) DEFAULT NULL,
  `AdminRemark` varchar(200) NOT NULL,
  `AdminRemarkdate` timestamp NULL DEFAULT NULL ON UPDATE current_timestamp()
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--
-- Dumping data for table `tblenquiry`
--

INSERT INTO `tblenquiry` (`ID`, `EnquiryNumber`, `Artpdid`, `FullName`, `Email`,
`MobileNumber`, `Message`, `EnquiryDate`, `Status`, `AdminRemark`,
`AdminRemarkdate`) VALUES
(1, '230873611', 4, 'Anuj kumar', 'ak@test.com', 1234567890, 'This is for testing
Purpose.', '2023-01-02 18:16:47', 'Answer', 'test purpose', '2023-01-01
18:30:00'),
(2, '227883179', 5, 'Amit Kumar', 'amitk55@test.com', 1234434321, 'I want this
painting', '2023-01-02 18:42:42', 'Answer', 'testing purpose', '2023-01-02
18:43:16');

```

```
-- --------------------------------------------------------

--
-- Table structure for table `tblpage`
--

CREATE TABLE `tblpage` (
  `ID` int(10) NOT NULL,
  `PageType` varchar(200) DEFAULT NULL,
  `PageTitle` mediumtext DEFAULT NULL,
  `PageDescription` mediumtext DEFAULT NULL,
  `Email` varchar(200) DEFAULT NULL,
  `MobileNumber` bigint(10) DEFAULT NULL,
  `UpdationDate` date DEFAULT NULL,
  `Timing` varchar(200) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--
-- Dumping data for table `tblpage`
--

INSERT INTO `tblpage` (`ID`, `PageType`, `PageTitle`, `PageDescription`, `Email`,
`MobileNumber`, `UpdationDate`, `Timing`) VALUES
(1, 'aboutus', 'About Us', '<span style=\"color: rgb(32, 33, 36); font-family:
arial, sans-serif; font-size: 16px;\">An art gallery is&amp;nbsp;</span><b
style=\"color: rgb(32, 33, 36); font-family: arial, sans-serif; font-size:
16px;\">an exhibition space to display and sell artworks</b><span style=\"color:
rgb(32, 33, 36); font-family: arial, sans-serif; font-size: 16px;\">. As a
result, the art gallery is a commercial enterprise working with a portfolio of
artists. The gallery acts as the dealer representing, supporting, and
distributing the artworks by the artists in question.</span><br>', NULL, NULL,
NULL, ''),
(2, 'contactus', 'Contact Us', '890,Sector 62, Gyan Sarovar, GAIL
Noida(Delhi/NCR)', 'info@gmail.com', 1234567890, NULL, '10:30 am to 7:30 pm');

--
-- Indexes for dumped tables
--

--
-- Indexes for table `tbladmin`
--
ALTER TABLE `tbladmin`
  ADD PRIMARY KEY (`ID`);

--
-- Indexes for table `tblartist`
--
ALTER TABLE `tblartist`
```

```
222   ADD PRIMARY KEY (`ID`);
223
224 --
225 -- Indexes for table `tblartmedium`
226 --
227 ALTER TABLE `tblartmedium`
228   ADD PRIMARY KEY (`ID`);
229
230 --
231 -- Indexes for table `tblartproduct`
232 --
233 ALTER TABLE `tblartproduct`
234   ADD PRIMARY KEY (`ID`);
235
236 --
237 -- Indexes for table `tblarttype`
238 --
239 ALTER TABLE `tblarttype`
240   ADD PRIMARY KEY (`ID`);
241
242 --
243 -- Indexes for table `tblenquiry`
244 --
245 ALTER TABLE `tblenquiry`
246   ADD PRIMARY KEY (`ID`),
247   ADD KEY `CardId` (`Artpdid`);
248
249 --
250 -- Indexes for table `tblpage`
251 --
252 ALTER TABLE `tblpage`
253   ADD PRIMARY KEY (`ID`);
254
255 --
256 -- AUTO_INCREMENT for dumped tables
257 --
258
259 --
260 -- AUTO_INCREMENT for table `tbladmin`
261 --
262 ALTER TABLE `tbladmin`
263   MODIFY `ID` int(10) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=2;
264
265 --
266 -- AUTO_INCREMENT for table `tblartist`
267 --
268 ALTER TABLE `tblartist`
269   MODIFY `ID` int(10) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=11;
270
```

```
--
-- AUTO_INCREMENT for table `tblartmedium`
--
ALTER TABLE `tblartmedium`
  MODIFY `ID` int(5) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=14;

--
-- AUTO_INCREMENT for table `tblartproduct`
--
ALTER TABLE `tblartproduct`
  MODIFY `ID` int(5) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=6;

--
-- AUTO_INCREMENT for table `tblarttype`
--
ALTER TABLE `tblarttype`
  MODIFY `ID` int(5) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=10;

--
-- AUTO_INCREMENT for table `tblenquiry`
--
ALTER TABLE `tblenquiry`
  MODIFY `ID` int(10) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=3;

--
-- AUTO_INCREMENT for table `tblpage`
--
ALTER TABLE `tblpage`
  MODIFY `ID` int(10) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=3;
COMMIT;

/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;
/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;
/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;

```

FRONT END DESIGN

SYSTEM DESIGN

System design is the process of defining the architecture, components, modules, interfaces, and data for a system to satisfy specified requirements. System design could see it as the application of systems theory to product development. There is some overlap with the disciplines of system analysis, system architecture and systems engineering. If the border topic of product development "blends the perspective of marketing, design, and manufacturing into a single approach to product development," then design is the act of taking the marketing information and creating the design of the product to be manufactured. System design is therefore the process of defining and developing systems to satisfy specified requirements of the user.

Until the 1990's systems design had a crucial and respected role in the data processing industry. In 1990's standardization of hardware and software resulted in the ability to build modular systems. The increasing importance of software running on generic platforms has enhanced the discipline of software engineering.

Object-oriented analysis and design methods are becoming the most widely used methods for computer system design. The UML has become the standard language in object- oriented analysis and design. It is widely used for modelling software systems and organizations.

System design is one of the most important phases of software development process. The purpose of the design is to plan the solution of a problem specified by the requirement documentation. In other words, the first step in the solution to the problem is the design of the project.

Front End Codes:

➢ Home Page of Art Gallery:

```
<?php
session_start();
error_reporting(0);
include('includes/dbconnection.php');
?>
<!DOCTYPE html>
<html lang="zxx">
   <head>
      <title>Art Gallery Management System | Home Page</title>

      <script>
         addEventListener("load", function () {
            setTimeout(hideURLbar, 0);
         }, false);

         function hideURLbar() {
```

```
            window.scrollTo(0, 1);
        }
    </script>
    <!--//meta tags ends here-->
    <!--booststrap-->
    <link href="css/bootstrap.min.css" rel="stylesheet" type="text/css"
media="all">
    <!--//booststrap end-->
    <!-- font-awesome icons -->
    <link href="css/fontawesome-all.min.css" rel="stylesheet" type="text/css"
media="all">
    <!-- //font-awesome icons -->
    <!-- For Clients slider -->
    <link rel="stylesheet" href="css/flexslider.css" type="text/css" media="all"
/>
    <!--flexs slider-->
    <link href="css/JiSlider.css" rel="stylesheet">
    <!--Shoping cart-->
    <link rel="stylesheet" href="css/shop.css" type="text/css" />
    <!--//Shoping cart-->
    <!--stylesheets-->
    <link href="css/style.css" rel='stylesheet' type='text/css' media="all">
    <!--//stylesheets-->
    <link href="//fonts.googleapis.com/css?family=Sunflower:500,700"
rel="stylesheet">
    <link href="//fonts.googleapis.com/css?family=Open+Sans:400,600,700"
rel="stylesheet">
</head>
<body>
    <?php include_once('includes/header.php');?>
    <div class="slider text-center">
        <div class="callbacks_container">
            <ul class="rslides" id="slider4">
                <li>
                    <div class="slider-img one-img">
                        <div class="container">
                            <div class="slider-info ">
                                <h5>Pick The Best Art For <br>Your Choice</h5>
                                <div class="bottom-info">
                                    <p>Lorem ipsum dolor sit amet, consectetuer
adipiscing elit.Aenean commodo ligula eget dolorL orem ipsum dolor sit amet eget
dolor</p>
                                </div>
                                <div class="outs_more-buttn">
                                    <a href="about.php">Read More</a>
                                </div>
                            </div>
                        </div>
                    </div>
```

```
                </li>
                <li>
                   <div class="slider-img two-img">
                      <div class="container">
                         <div class="slider-info ">
                            <h5>Sort Art And Painting<br>For Your Choice</h5>
                            <div class="bottom-info">
                               <p>Lorem ipsum dolor sit amet, consectetuer
adipiscing elit.Aenean commodo ligula eget dolorL orem ipsum dolor sit amet eget
dolor</p>
                            </div>
                            <div class="outs_more-buttn">
                               <a href="about.php">Read More</a>
                            </div>
                         </div>
                      </div>
                   </div>
                </li>
                <li>
                   <div class="slider-img three-img">
                      <div class="container">
                         <div class="slider-info">
                            <h5>Best Art And Painting<br> For Your Choice</h5>
                            <div class="bottom-info">
                               <p>Lorem ipsum dolor sit amet, consectetuer
adipiscing elit.Aenean commodo ligula eget dolorL orem ipsum dolor sit amet eget
dolor</p>
                            </div>
                            <div class="outs_more-buttn">
                               <a href="about.php">Read More</a>
                            </div>
                         </div>
                      </div>
                   </div>
                </li>
             </ul>
          </div>
          <!-- This is here just to demonstrate the callbacks -->
          <!-- <ul class="events">
             <li>Example 4 callback events</li>
             </ul>-->
          <div class="clearfix"></div>
       </div>
    <!-- about -->
    <section class="about py-lg-4 py-md-3 py-sm-3 py-3" id="about">
        <div class="container py-lg-5 py-md-5 py-sm-4 py-4">
           <h3 class="title text-center mb-lg-5 mb-md-4  mb-sm-4 mb-3">Best
Products</h3>
           <div class="row banner-below-w3l">
```

```
103.                <div class="col-lg-4 col-md-6 col-sm-6 text-center banner-agile-
    flowers">
104.                    <img src="images/a1.jpg" width="200" height="200" class="img-
    thumbnail" alt="">
105.                    <div class="banner-right-icon">
106.                        <h4 class="pt-3">Sculptures</h4>
107.                    </div>
108.                </div>
109.                <div class="col-lg-4 col-md-6 col-sm-6 text-center banner-agile-
    flowers">
110.                    <img src="images/a2.jpg" width="200" height="200" class="img-
    thumbnail" alt="">
111.                    <div class="banner-right-icon">
112.                        <h4 class="pt-3">Serigraphs</h4>
113.                    </div>
114.                </div>
115.                <div class="col-lg-4 col-md-6 col-sm-6 text-center banner-agile-
    flowers">
116.                    <img src="images/a3.jpg" width="200" height="200" class="img-
    thumbnail" alt="">
117.                    <div class="banner-right-icon">
118.                        <h4 class="pt-3">Prints</h4>
119.                    </div>
120.                </div>
121.                <div class="col-lg-4 col-md-6 col-sm-6 mt-3 text-center banner-
    agile-flowers">
122.                    <img src="images/a4.jpg" width="200" height="200" class="img-
    thumbnail" alt="">
123.                    <div class="banner-right-icon">
124.                        <h4 class="pt-3">Painting</h4>
125.                    </div>
126.                </div>
127.                <div class="col-lg-4 col-md-6 col-sm-6 mt-3 text-center banner-
    agile-flowers">
128.                    <img src="images/a5.jpg" width="200" height="200" class="img-
    thumbnail" alt="">
129.                    <div class="banner-right-icon">
130.                        <h4 class="pt-3">Street Art</h4>
131.                    </div>
132.                </div>
133.                <div class="col-lg-4 col-md-6 col-sm-6 mt-3 text-center banner-
    agile-flowers">
134.                    <img src="images/a6.jpg" width="500" height="200" class="img-
    thumbnail" alt="">
135.                    <div class="banner-right-icon">
136.                        <h4 class="pt-3">Visuals Arts</h4>
137.                    </div>
138.                </div>
139.                <div class="toys-grids-upper">
```

```
                    <div class="about-toys-off">
                        <h2>Get Up to <span>70% Off </span>On Selected Art</h2>
                    </div>
                </div>
            </div>
        </div>
    </section>
    <!-- //about -->
    <!--new Arrivals -->
    <section class="blog py-lg-4 py-md-3 py-sm-3 py-3">
        <div class="container py-lg-5 py-md-4 py-sm-4 py-3">
            <h3 class="title clr text-center mb-lg-5 mb-md-4 mb-sm-4 mb-3">New
Arrivals</h3>
            <div class="slid-img">
                <ul id="flexiselDemo1">
                    <?php
$ret=mysqli_query($con,"select tblarttype.ID as atid,tblarttype.ArtType as
typename,tblartproduct.ID as
apid,tblartproduct.Title,tblartproduct.Image,tblartproduct.ArtType from
tblartproduct join tblarttype on tblarttype.ID=tblartproduct.ArtType");
$cnt=1;
while ($row=mysqli_fetch_array($ret)) {

?>
 <li>
 <div class="agileinfo_port_grid">
 <img src="admin/images/<?php echo $row['Image'];?>" width="300" height="300"
alt=" " class="img-fluid" />
 <div class="banner-right-icon">
                        <h4 class="pt-3"><?php echo $row['typename'];?></h4>
                    </div>
                    <div class="outs_more-buttn">
                        <a href="art-enquiry.php?eid=<?php echo
$row['apid'];?>">Enquiry</a>
                    </div>
                </div>
            </li><?php }?>

        </ul>
    </div>
</div>
    </section>
    <!--//about -->


    <!--Product-about-->
    <section class="about py-lg-4 py-md-3 py-sm-3 py-3">
        <div class="container py-lg-5 py-md-5 py-sm-4 py-3">
            <?php
```

```
183.
184.  $ret=mysqli_query($con,"select * from tblpage where PageType='aboutus' ");
185.  $cnt=1;
186.  while ($row=mysqli_fetch_array($ret)) {
187.
188.  ?>
189.                <h3 class="title text-center mb-lg-5 mb-md-4 mb-sm-4 mb-
   3"><?php  echo $row['PageTitle'];?></h3>
190.                <div class="about-products-w3layouts">
191.                   <p><?php  echo $row['PageDescription'];?>
192.                   </p>
193.                  <?php } ?>
194.                </div>
195.             </div>
196.          </section>
197.          <!--//Product-about-->
198.
199.          <!-- footer -->
200.          <?php include_once('includes/footer.php');?>
201.          <!-- //footer -->
202.          <!-- Modal 1-->
203.
204.          <!--js working-->
205.          <script src='js/jquery-2.2.3.min.js'></script>
206.          <!--//js working-->
207.          <!-- cart-js -->
208.          <script src="js/minicart.js"></script>
209.          <script>
210.             toys.render();
211.
212.             toys.cart.on('toys_checkout', function (evt) {
213.                var items, len, i;
214.
215.                if (this.subtotal() > 0) {
216.                   items = this.items();
217.
218.                   for (i = 0, len = items.length; i < len; i++) {}
219.                }
220.             });
221.          </script>
222.          <!-- //cart-js -->
223.          <!--responsiveslides banner-->
224.          <script src="js/responsiveslides.min.js"></script>
225.          <script>
226.             // You can also use "$(window).load(function() {"
227.             $(function () {
228.                // Slideshow 4
229.                $("#slider4").responsiveSlides({
230.                   auto: true,
```

```
                pager:false,
                nav:true ,
                speed: 900,
                namespace: "callbacks",
                before: function () {
                   $('.events').append("<li>before event fired.</li>");
                },
                after: function () {
                   $('.events').append("<li>after event fired.</li>");
                }
             });
          });
       </script>
       <!--// responsiveslides banner-->
       <!--slider flexisel -->
       <script src="js/jquery.flexisel.js"></script>
       <script>
          $(window).load(function() {
             $("#flexiselDemo1").flexisel({
                visibleItems: 3,
                animationSpeed: 3000,
                autoPlay:true,
                autoPlaySpeed: 2000,
                pauseOnHover: true,
                enableResponsiveBreakpoints: true,
                responsiveBreakpoints: {
                   portrait: {
                      changePoint:480,
                      visibleItems: 1
                   },
                   landscape: {
                      changePoint:640,
                      visibleItems:2
                   },
                   tablet: {
                      changePoint:768,
                      visibleItems: 2
                   }
                }
             });
          });
       </script>
       <!-- //slider flexisel -->
       <!-- start-smoth-scrolling -->
       <script src="js/move-top.js"></script>
       <script src="js/easing.js"></script>
       <script>
          jQuery(document).ready(function ($) {
             $(".scroll").click(function (event) {
```

```
                event.preventDefault();
                $('html,body').animate({
                   scrollTop: $(this.hash).offset().top
                }, 900);
             });
          });
       </script>
       <!-- start-smoth-scrolling -->
       <!-- here stars scrolling icon -->
       <script>
          $(document).ready(function () {

             var defaults = {
                containerID: 'toTop', // fading element id
                containerHoverID: 'toTopHover', // fading element hover id
                scrollSpeed: 1200,
                easingType: 'linear'
             };
             $().UItoTop({
                easingType: 'easeOutQuart'
             });
          });
       </script>
       <!-- //here ends scrolling icon -->
       <!--bootstrap working-->
       <script src="js/bootstrap.min.js"></script>
       <!-- //bootstrap working-->
    </body>
</html>
```

TESTING

This chapter gives the outline of all testing methods that are carried out to get a bug free system. Quality can be achieved by testing the product using different techniques at different phases of the project development. The purpose of testing is to discover error. Testing is the process of trying to discover every conceivable fault or weakness in a work product. It provides a way to check the functionality of components sub-assemblies and/or a finished product. There are various types of tests. Each test type addresses a specific testing requirement.

TESTING PROCESS: -

Testing is an integral part of software development. Testing process certifies whether the product that is developed complies with the standards that I was designed to. Testing process involves building of test cases against which the product has to be used.

TESTING OBJECTIVE: -

The main objectives of testing process are as follows.

1. Testing is a process of executing a program with the intent of finding an error.
2. A good test case is one that has high probability of finding undiscovered error.
3. A successful test is one that uncovers the undiscovered error.

TEST CASE

S. No	TEST INPUT	EXPECTED RESULT	OBSERVED RESULT	REMARKS
1	INSERT A RECORD	New tuple should be inserted	Query OK 1 row effected or inserted	PASS
2	SEARCH A RECORD	Display the record	Required record displayed	PASS
3	DISPLAY RECORD	Display the record	record displayed	PASS
4	DELETE A RECORD	Delete the record	Query OK 1 row affected or Row Deleted	PASS
5	CREATE TRIGGER	Trigger Created	Query OK Trigger Created	PASS
6	CREATE STORED PROCEDURES	Stored procedures created	Query OK Stored Procedures Created	PASS

CHAPTER 7

SNAPSHOTS

This section describes the screens of "Art Gallery Database". The snapshots are shown below for each module.

- This is the main page that shows all the operations which are present in Art Gallery Database.

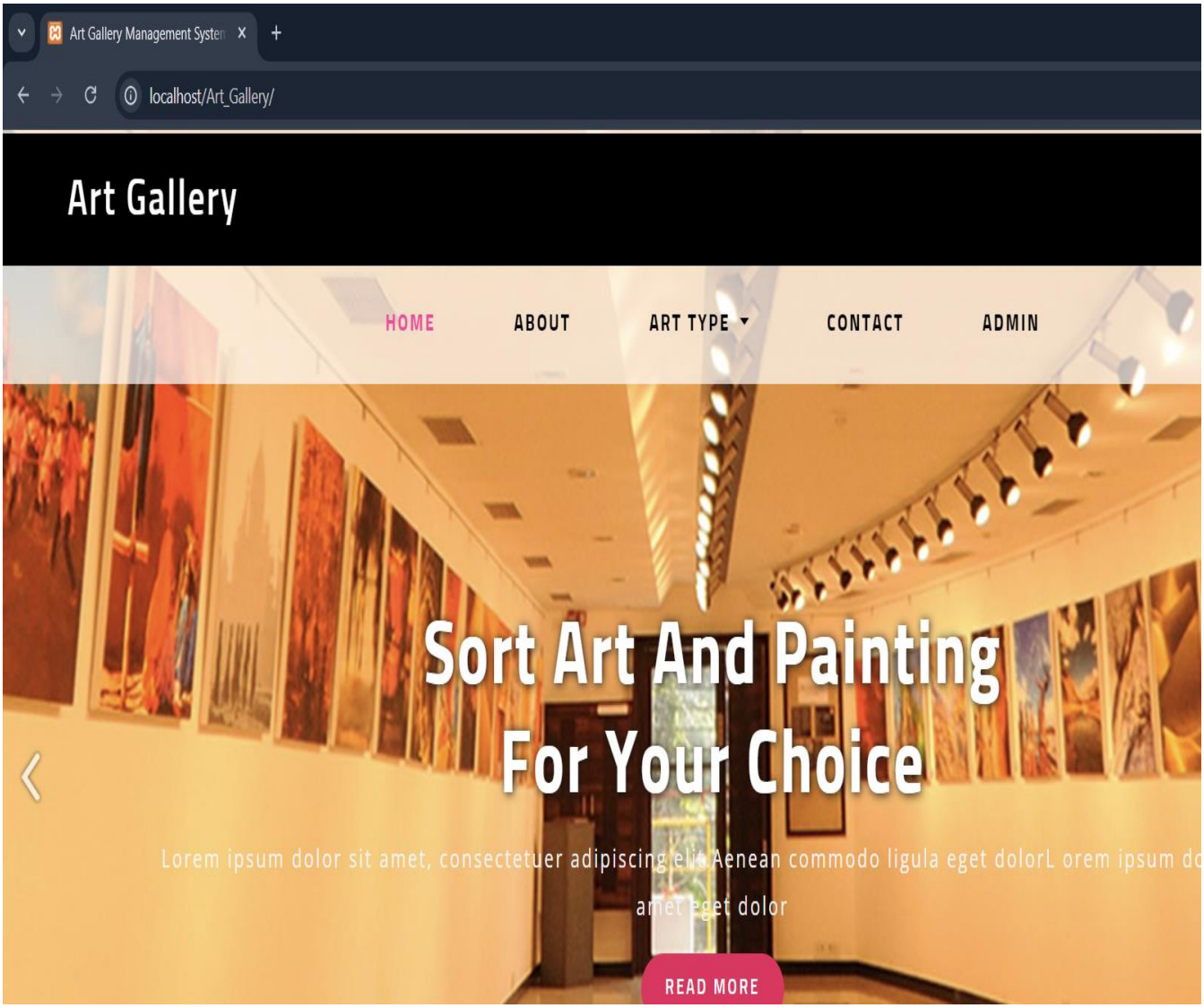

FIGURE: ART GALLERY DATABASE MAIN PAGE

- The selection page is the next displayed as soon as the table is selected in Main Page. Gallery table contains Insert, Search, Display and Delete tables where values can be inserted, deleted, etc.

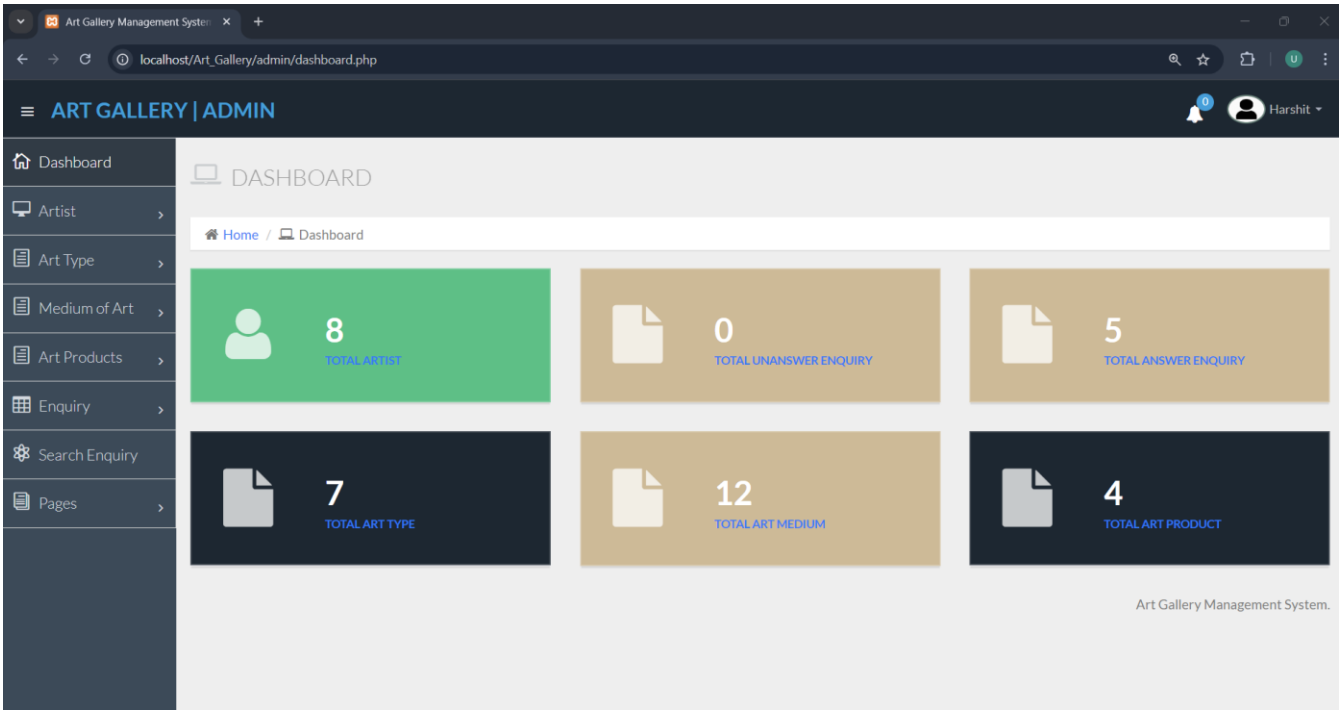

FIGURE: GALLERY TABLE SELECTION PAGE

- This snapshot shows the Admin Login Page.

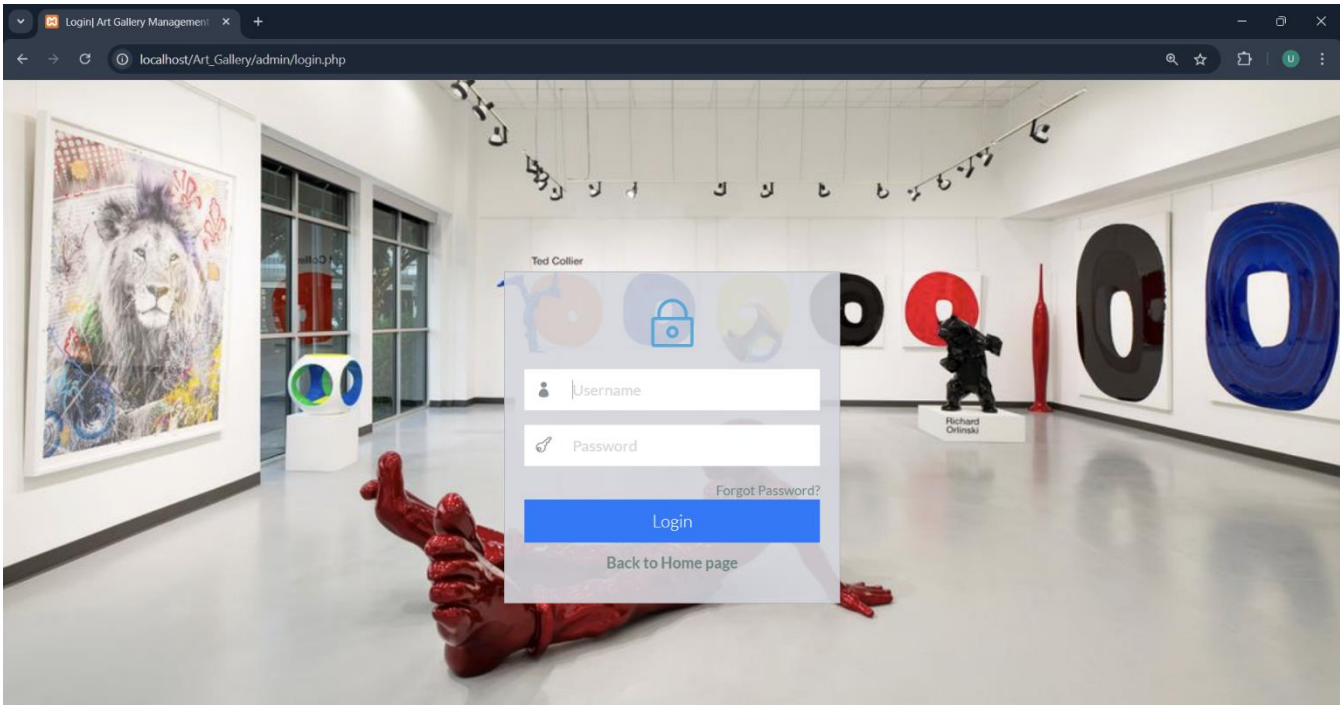

FIGURE 7.3: ADMIN LOGIN PAGE

- This snapshot contains various types of arts.

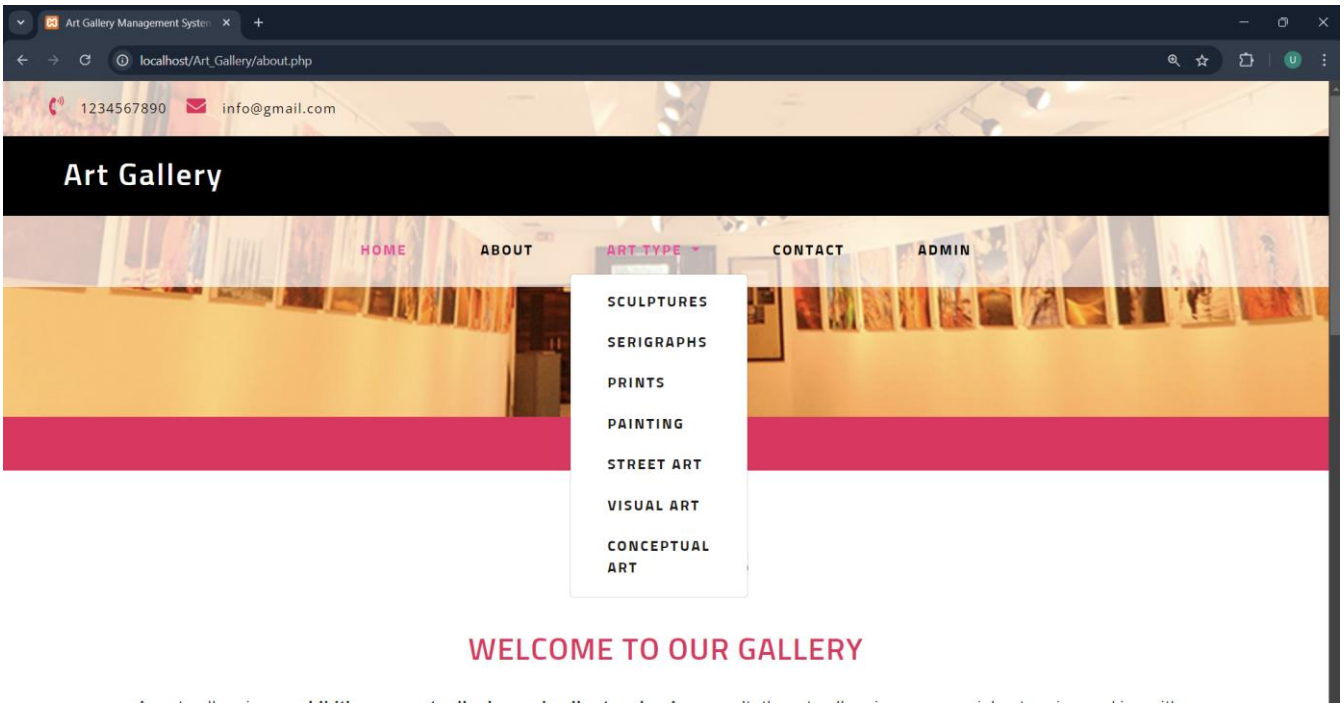

FIGURE: VARIOUS TYPES OF ARTS

- This snapshot shows the working status of Stored Procedure of Artist table.

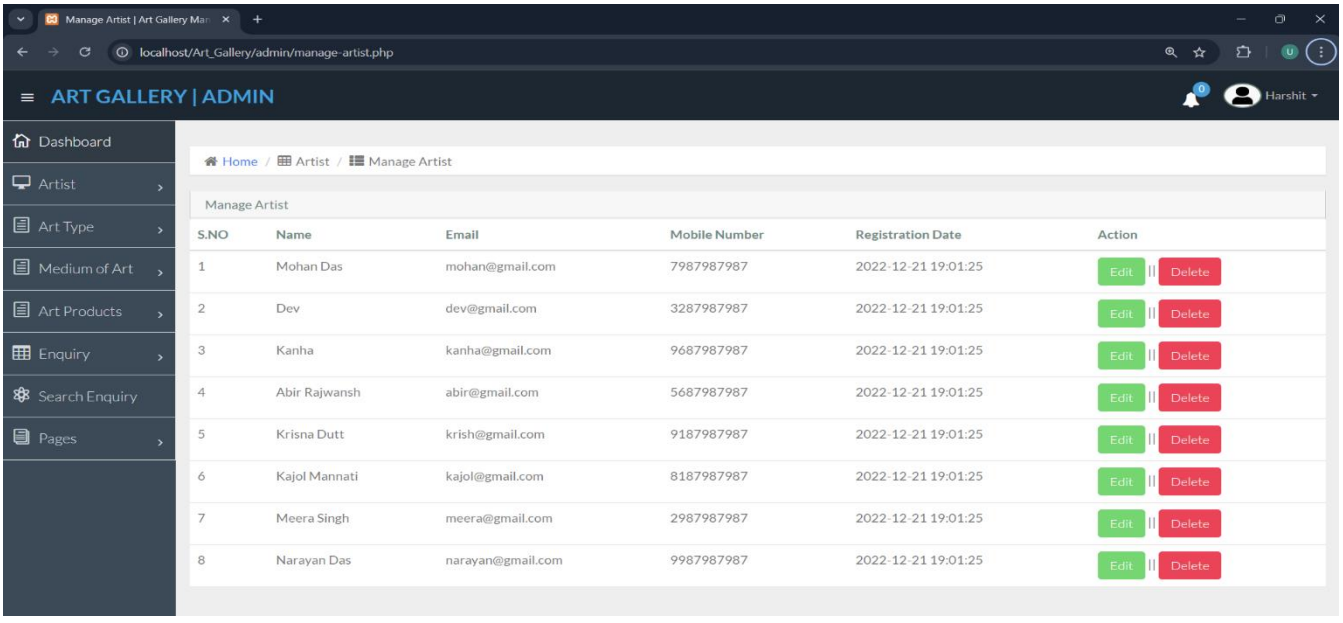

FIGURE: STORED PROCEDURE PAGE OF ARTIST TABLE

CONCLUSION

A database was created for a market that can use it for keeping track on art gallery Galleries are divided into many art galleries. Galleries have different names, locations, etc. Each gallery will have different exhibitions and each exhibition will have a start and end date. The galleries will have different artist displaying their artwork. The model can also be adapted to meet other purposes and thus be used for other projects. The database structure is quite simple, which makes it easy for also other programmers to understand it. In conclusion, a database is a far more efficient mechanism to store and organize data than spreadsheets it allows for a centralized facility that can easily be modified and quickly shared among multiple users. Having a web based front end removes the requirement of users having to understand and use a database directly, and allows users to connect from anywhere with an internet connection and a basic web browser. It also allows the possibility of queries to obtain information for various surveys. Due to the number of users reading and modifying student data in the department, it is an ideal use for such a system.

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