***ANUDIP FOUNDATION***

A Project Report on

**BUS RESERVATION SYSTEM**

By

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BUS RESERVATION SYSTEM

The Bus Reservation System is designed to automate online ticket purchasing through an easy-to-use online bus booking system. Embed our online bus ticketing system into your website and enable your customers to book tickets for various routes and destinations. With the bus ticket reservation system, you can manage reservations, client data, and passenger lists. You can also schedule routes, set seat availability, upload an interactive seat map, and let customers select their seats.

**Entities:**

* Admin
* Bus
* **conductor**
* Ticket
* Passager
* Payments

**VARIOUS ENTITIES:**

* **Admin**
* admin\_id(Primary Key)
* admin\_name,
* admin\_phone\_no
* admin\_email\_id)
* **Bus**
* bus\_id(Primary Key)
* bus\_number
* bus\_time
* bus\_site
* bus\_window (Primary Key)
* **conductor**
* conductor\_id (Primary Key)
* conductor\_name
* ,conductor\_address
* conductor\_age
* **Ticket**
* ticket\_number
* ticket\_id(Primary Key)
* ticket\_date
* ticket\_amount
* **Passenger**
* passenger\_id (Primary Key)
* passenger\_name
* passenger\_site\_number
* passenger\_age
* **Payments**
* payment\_id
* customer\_id
* payment\_date
* payment\_amount

**ENTITY RELATIONSHIP DIAGRAM - BUS RESERVATION SYSTEM**



**Database Creation:**

Enter password: \*\*\*\*\*\*\*\*

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 25

Server version: 8.0.36 MySQL Community Server - GPL

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;

+--------------------------------+

| Database |

+--------------------------------+

| exam\_setting\_management\_system |

| gas\_booking\_system |

| information\_schema |

| mysql |

| online\_bus\_reservation\_system |

| performance\_schema |

| sakila |

| sys |

| world |

+--------------------------------+

9 rows in set (0.00 sec)

mysql> create database Online\_Bus\_Reservation\_System;

ERROR 1007 (HY000): Can't create database 'online\_bus\_reservation\_system'; database exists

mysql> create database Bus\_Reservation\_system;

Query OK, 1 row affected (0.01 sec)

mysql> show databases;

+--------------------------------+

| Database |

+--------------------------------+

| bus\_reservation\_system |

| exam\_setting\_management\_system |

| gas\_booking\_system |

| information\_schema |

| mysql |

| online\_bus\_reservation\_system |

| performance\_schema |

| sakila |

| sys |

| world |

+--------------------------------+

10 rows in set (0.00 sec)

mysql> use bus\_reservation\_system;

Database changed

mysql> create table admin(admin\_id varchar(5)primary key, admin\_name

-> varchar(30),admin\_phone\_no varchar(10), admin\_email\_id varchar(50));

Query OK, 0 rows affected (0.07 sec)

mysql> create table bus( bus\_id VARCHAR(50) PRIMARY KEY,bus\_number VARCHAR(20), bus\_time VARCHAR(10), bus\_site VARCHAR(100), bus\_window VARCHAR(50));

Query OK, 0 rows affected (0.06 sec)

mysql> CREATE TABLE Conductor (conductor\_id VARCHAR(20) PRIMARY KEY, conductor\_name VARCHAR(100),conductor\_address VARCHAR(255),conductor\_age INT);

Query OK, 0 rows affected (0.08 sec)

mysql> CREATE TABLE Ticket (ticket\_number VARCHAR(20),ticket\_id VARCHAR(20) PRIMARY KEY,ticket\_date DATE, ticket\_amount DECIMAL(10, 2));

Query OK, 0 rows affected (0.08 sec)

mysql> CREATE TABLE Passenger (passenger\_id VARCHAR(20) PRIMARY KEY,passenger\_name VARCHAR(100), passenger\_number VARCHAR(20), passenger\_site\_number VARCHAR(20), passenger\_age INT);

Query OK, 0 rows affected (0.07 sec)

mysql> CREATE TABLE payments (payment\_id VARCHAR(50) PRIMARY KEY,customer\_id VARCHAR(50) REFERENCES customers(customer\_id), payment\_date DATE, payment\_amount VARCHAR(20));

Query OK, 0 rows affected (0.06 sec)

mysql> show tables;

+----------------------------------+

| Tables\_in\_bus\_reservation\_system |

+----------------------------------+

| admin |

| bus |

| conductor |

| passenger |

| payments |

| ticket |

+----------------------------------+

6 rows in set (0.03 sec)

mysql> desc admin;

+----------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+----------------+-------------+------+-----+---------+-------+

| admin\_id | varchar(5) | NO | PRI | NULL | |

| admin\_name | varchar(30) | YES | | NULL | |

| admin\_phone\_no | varchar(10) | YES | | NULL | |

| admin\_email\_id | varchar(50) | YES | | NULL | |

+----------------+-------------+------+-----+---------+-------+

4 rows in set (0.01 sec)

mysql> desc bus;

+------------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+------------+--------------+------+-----+---------+-------+

| bus\_id | varchar(50) | NO | PRI | NULL | |

| bus\_number | varchar(20) | YES | | NULL | |

| bus\_time | varchar(10) | YES | | NULL | |

| bus\_site | varchar(100) | YES | | NULL | |

| bus\_window | varchar(50) | YES | | NULL | |

+------------+--------------+------+-----+---------+-------+

5 rows in set (0.00 sec)

mysql> desc conductor;

+-------------------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-------------------+--------------+------+-----+---------+-------+

| conductor\_id | varchar(20) | NO | PRI | NULL | |

| conductor\_name | varchar(100) | YES | | NULL | |

| conductor\_address | varchar(255) | YES | | NULL | |

| conductor\_age | int | YES | | NULL | |

+-------------------+--------------+------+-----+---------+-------+

4 rows in set (0.00 sec)

mysql> desc ticket;

+---------------+---------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+---------------+---------------+------+-----+---------+-------+

| ticket\_number | varchar(20) | YES | | NULL | |

| ticket\_id | varchar(20) | NO | PRI | NULL | |

| ticket\_date | date | YES | | NULL | |

| ticket\_amount | decimal(10,2) | YES | | NULL | |

+---------------+---------------+------+-----+---------+-------+

4 rows in set (0.00 sec)

mysql> desc passenger;

+-----------------------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-----------------------+--------------+------+-----+---------+-------+

| passenger\_id | varchar(20) | NO | PRI | NULL | |

| passenger\_name | varchar(100) | YES | | NULL | |

| passenger\_number | varchar(20) | YES | | NULL | |

| passenger\_site\_number | varchar(20) | YES | | NULL | |

| passenger\_age | int | YES | | NULL | |

+-----------------------+--------------+------+-----+---------+-------+

5 rows in set (0.01 sec)

mysql> desc payments;

+----------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+----------------+-------------+------+-----+---------+-------+

| payment\_id | varchar(50) | NO | PRI | NULL | |

| customer\_id | varchar(50) | YES | | NULL | |

| payment\_date | date | YES | | NULL | |

| payment\_amount | varchar(20) | YES | | NULL | |

+----------------+-------------+------+-----+---------+-------+

4 rows in set (0.00 sec)

mysql>

**CONCLUSION:**.

It will also reduce the workload of the staff, reduce the time used for making reservation at the bus terminal and also increase efficiency. The application also has the ability to update records in various files automatically thereby relieving the company’s staff the stress of working from file security of data.