ANUDIP FOUNDATION

A Project Report on

GAS BOOKING SYSTEM

By

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GAS BOOKING SYSTEM

The Gas Booking System is a web-based application designed to streamline the process of booking gas cylinders and managing deliveries. It aims to provide a convenient and efficient platform for customers to order gas cylinders online, track their bookings, make payments, and receive timely delivery. The system is developed using a combination of HTML**,** CSS**,** Bootstrap**,** Hibernate**,** MySQL**,** and Java to ensure a responsive, user-friendly experience with a robust back-end infrastructure.

Entities:

- Admin
- Gas
- Customers
- Booking
- Payments
- Delivery

VARIOUS ENTITIES:

1. Admin

- Admin_id(primary key)
- Admin_name
- Admin_password

2. Gas

- gas_id(Primary Key)
- gas_name
- gas_price

3. Customers

- customer_id(Primary key)
- customer_name
- customer_mobile
- customer_email
- customer_address
- password

4. Bookings

- booking_id(Primary Key)
- gas_id(fk)
- customer_id(fk)
- booking_date

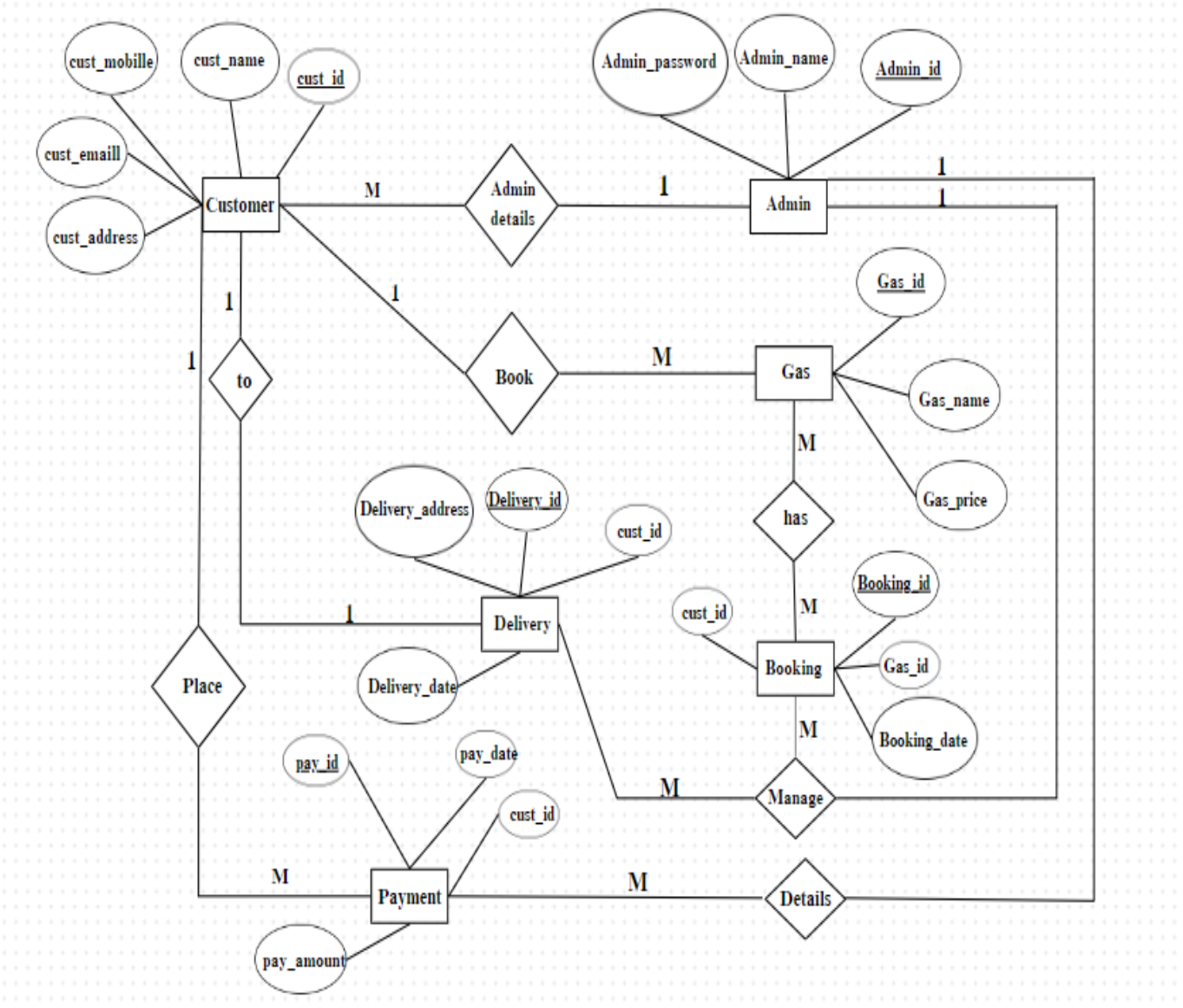
5. Payments

- payment_id(Primary Key)
- customer_id(fk)
- payment_date
- payment_amount

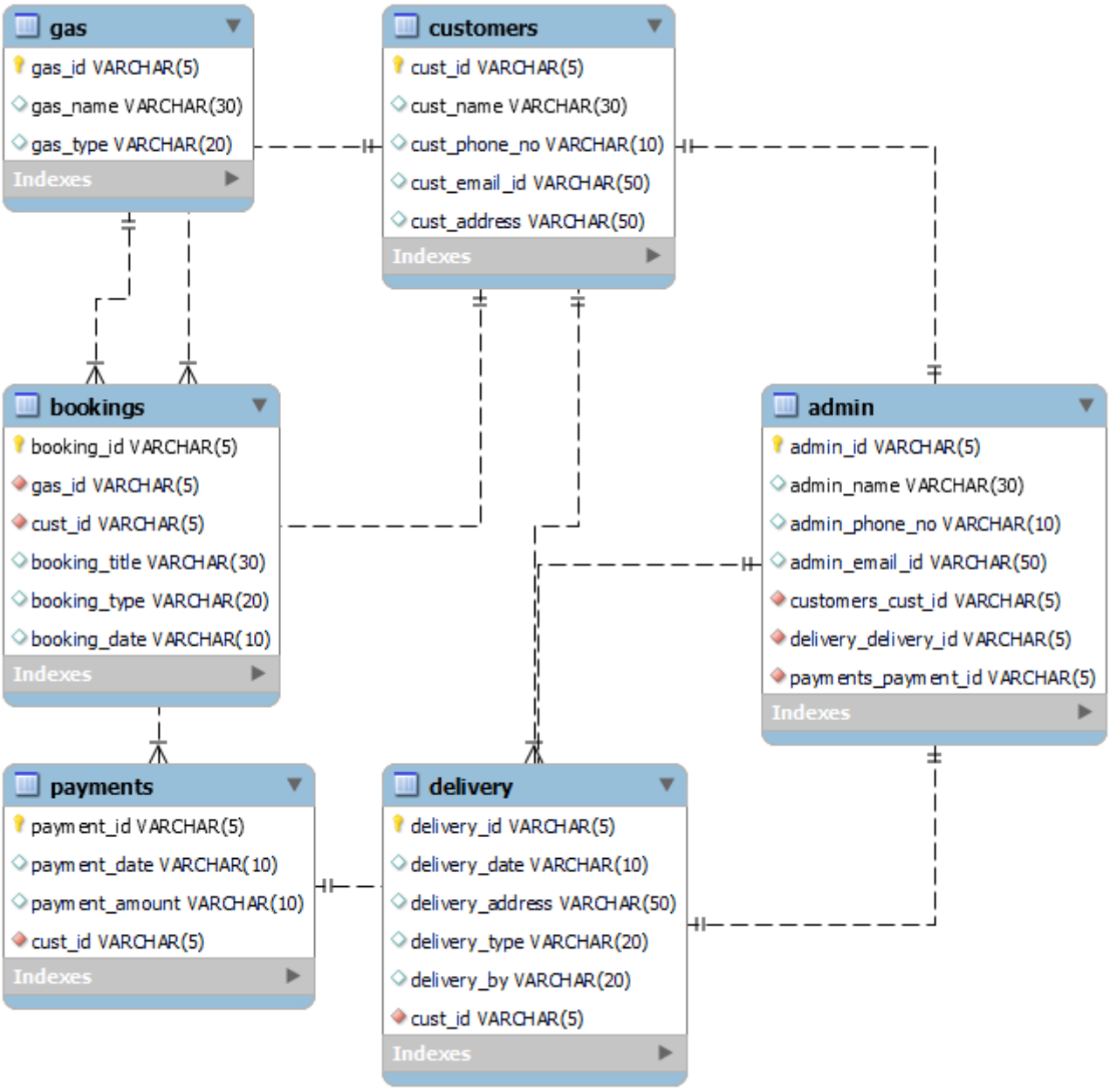
6. Delivery

- delivery_id(Primary Key)
- customer_id(fk)
- delivery_address
- delivery_date

ENTITY RELATIONSHIP DIAGRAM – GAS BOOKING SYSTEM



CLASS DIAGRAM OF GAS BOOKING SYSTEM:



DATABASES:

Enter password: ******
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 10
Server version: 8.0.41 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                 |
+--------------------------+
| anp_d0453                |
| ecommerce                |
| employeemanagementsystem |
| gasbookingsystem         |
| information_schema       |
| mysql                    |
| performance_schema       |
| sakila                   |
| studentmanagementsystem  |
| sys                      |
```

```
| world                  |
+------------------------+
11 rows in set (0.00 sec)
mysql> use gasbookingsystem;
Database changed

mysql> show tables;
+---------------------------+
| Tables_in_gasbookingsystem |
+---------------------------+
| admin                     |
| booking                   |
| customer                  |
| delivery                  |
| gas                       |
| payment                   |
+---------------------------+
6 rows in set (0.01 sec)

mysql> desc admin;
+----------------+--------------+------+-----+---------+----------------+
| Field          | Type         | Null | Key | Default | Extra          |
+----------------+--------------+------+-----+---------+----------------+
| admin_id       | int          | NO   | PRI | NULL    | auto_increment |
| admin_name     | varchar(100) | YES  |     | NULL    |                |
| admin_password | varchar(100) | YES  |     | NULL    |                |
+----------------+--------------+------+-----+---------+----------------+
3 rows in set (0.02 sec)

mysql> desc  Customer;
+--------------+-------------+------+-----+---------+----------------+
| Field        | Type        | Null | Key | Default | Extra          |
```

```
+-------------+-------------+------+-----+---------+----------------+
| cust_id     | int         | NO   | PRI | NULL    | auto_increment |
| cust_name   | varchar(100) | YES |     | NULL    |                |
| cust_mobNo  | varchar(15)  | YES  | UNI | NULL    |                |
| cust_email  | varchar(100) | YES  | UNI | NULL    |                |
| cust_address | text        | YES |     | NULL    |                |
+-------------+-------------+------+-----+---------+----------------+
5 rows in set (0.00 sec)

mysql> desc Gas;
+-----------+--------------+------+-----+---------+----------------+
| Field     | Type         | Null | Key | Default | Extra          |
+-----------+--------------+------+-----+---------+----------------+
| gas_id    | int          | NO   | PRI | NULL    | auto_increment |
| gas_name  | varchar(100)  | YES |     | NULL    |                |
| gas_price | decimal(10,2) | YES |     | NULL    |                |
+-----------+--------------+------+-----+---------+----------------+
3 rows in set (0.00 sec)

mysql> desc Booking;
+--------------+------+------+-----+---------+----------------+
| Field        | Type | Null | Key | Default | Extra          |
+--------------+------+------+-----+---------+----------------+
| booking_id   | int  | NO   | PRI | NULL    | auto_increment |
| cust_id      | int  | YES  | MUL | NULL    |                |
| gas_id       | int  | YES  | MUL | NULL    |                |
| booking_date | date | YES  |     | NULL    |                |
+--------------+------+------+-----+---------+----------------+
4 rows in set (0.00 sec)

mysql> desc Delivery;
+-----------------+------+------+-----+---------+----------------+
```

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

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

| delivery_id | int | NO | PRI | NULL | auto_increment |

| booking_id | int | YES | MUL | NULL | |

| delivery_address | text | YES | | NULL | |

| delivery_date | date | YES | | NULL | |

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

4 rows in set (0.00 sec)

mysql> desc Payment;

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

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

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

| pay_id | int | NO | PRI | NULL | auto_increment |

| booking_id | int | YES | MUL | NULL | |

| pay_date | date | YES | | NULL | |

| pay_amount | decimal(10,2) | YES | | NULL | |

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

4 rows in set (0.00 sec)

CONCLUSION:

The Gas Booking System effectively addresses customer challenges by providing a seamless platform for booking gas cylinders, making payments, and tracking deliveries. With the integration of HTML**,** CSS**,** Bootstrap**,** Java**,** Hibernate, and MySQL, the system offers a scalable and user-friendly experience. Administrators have full control over gas inventory, bookings, and payments, while customers benefit from a streamlined process. Future expansions, such as automated alerts and real-time tracking, can further enhance the system's functionality. Overall, the project highlights the power of modern web technologies in simplifying everyday services like gas cylinder delivery.