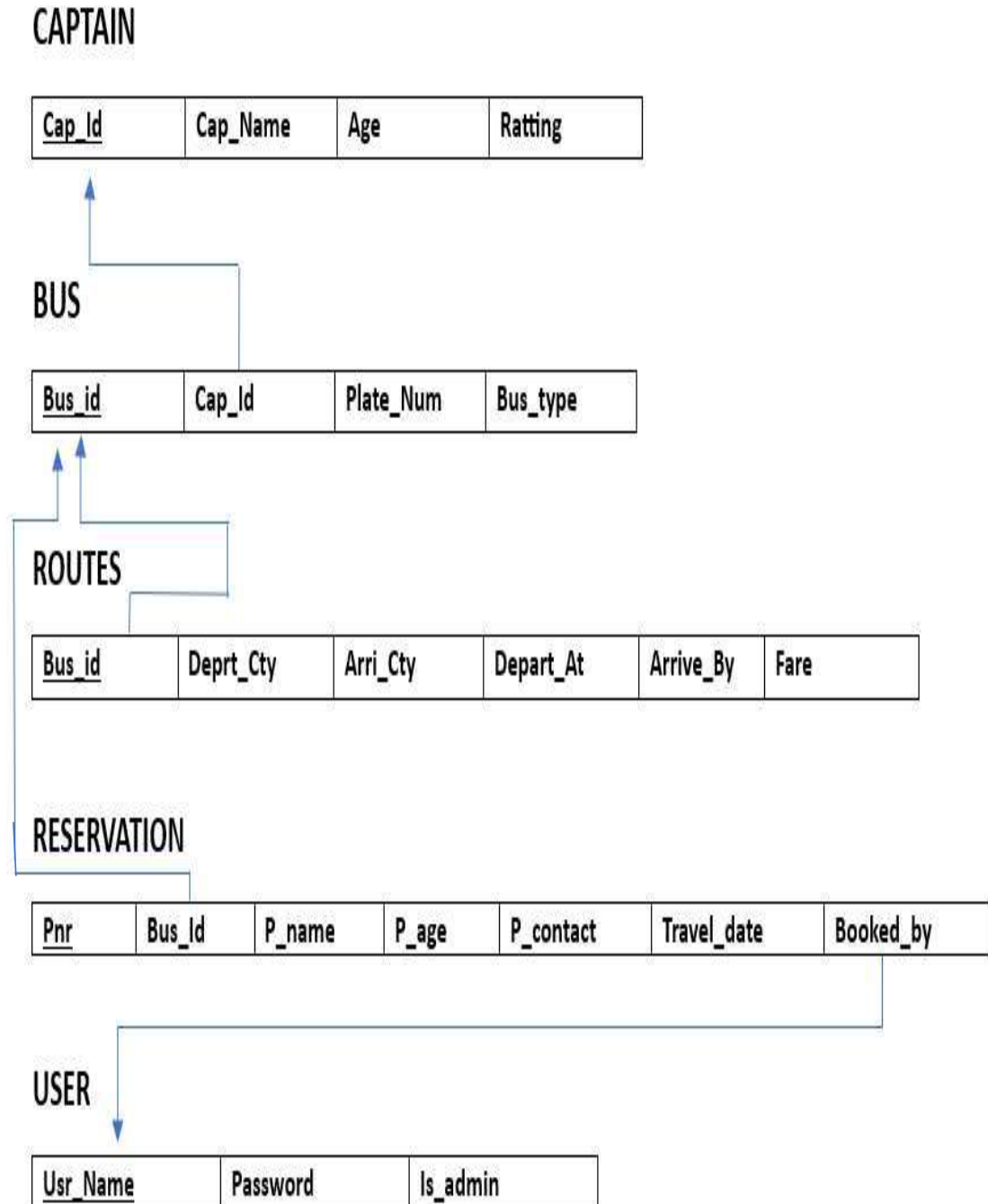


## 4.2 SCHEMA DIAGRAM FOR BUS RESERVATION



## 5.2 Backend Implementation (database)

### 5.2.1 CAPTAIN:

```
CREATE TABLE CAPTAIN (ID INT PRIMARY KEY,NAME VARCHAR(20),AGE INT,RATING INT)
```

DESC CAPTAIN

Field	Type	Null	Key	Default	Extra
Id	int(11)	NO	PRI	NULL	
name	varchar(20)	YES		NULL	
age	int(2)	YES		NULL	
rating	int(2)	YES		NULL	

Fig 5.2.1 Captain

### 5.2.2 BUS:

```
CREATE TABLE BUS(
ID INT PRIMARY KEY ,CAPTAIN_ID REFERENCES CAPTAIN(ID) ON DELETE CASCADE,
PLATE_NUMBER VARCHAR(10),BUS_TYPE VARCHAR(20))
```

DESC BUS

Field	Type	Null	Key	Default	Extra
Id	int(11)	NO	PRI	NULL	
captain_Id	int(11)	YES	MUL	NULL	
plate_number	varchar(8)	YES		NULL	
bus_type	varchar(10)	YES		NULL	

Fig 5.2.2 Bus

### 5.2.3 USERS:

```
CREATE TABLE USERS (USERID VARCHAR(10),PASSWD VARCHAR(20)IsAdmin CHAR(1))
```

DESC USERS

Field	Type	Null	Key	Default	Extra
userId	varchar(10)	NO	PRI	NULL	
passwd	varchar(20)	YES		NULL	
isAdmin	char(1)	YES		NULL	

Fig 5.2.3 Users

### 5.2.4 ROUTE:

```
CREATE TABLE ROUTE(
  BUS_ID INT PRIMARY KEY,
  DEPT_CITY VARCHAR(20),
  ARRI_CITY VARCHAR(20),
  DEPT_AT TIME,
  ARRIV_BY TIME,
  FARE INT
)
```

```
DESC ROUTE
```

Field	Type	Null	Key	Default	Extra
Bus_id	int(11)	NO	PRI	NULL	
Dept_city	varchar(20)	YES		NULL	
Arri_City	varchar(20)	YES		NULL	
Dept_At	time	YES		NULL	
Arriv_By	time	YES		NULL	
fare	int(4)	YES		NULL	

Fig 5.2.4 Route

### 5.2.5 RESERVATION:

```
CREATE TABLE RESERVATION(
  PNR INT PRIMARY KEY,
  BUSID REFERENCES BUS(ID) ON DELETE CASCADE,
  PNAME VARCHAR(20),
  PAGE INT,
  TRAVELDATE DATE,
  GENDER VARCHAR(10),
  BOOKEDBY VARCHAR(15)
)
```

```
DESC RESERVATION
```

Field	Type	Null	Key	Default	Extra
pnr	varchar(8)	NO	PRI	NULL	
busId	int(11)	YES	MUL	NULL	
pname	varchar(20)	YES		NULL	
pcontact	int(11)	YES		NULL	
page	int(2)	YES		NULL	
travelDate	date	YES		NULL	
Gender	varchar(6)	YES		NULL	
bookedBy	varchar(15)	YES		NULL	

Fig 5.2.5 Reservation