

Mario Wijaya

Section C

[mwijaya3@gatech.edu](mailto:mwijaya3@gatech.edu)

mwijaya3

Ousmane Kaba

Section C

[kaba@gatech.edu](mailto:kaba@gatech.edu)

okaba3

Masud Parvez

Section C

[mparvez3@gatech.edu](mailto:mparvez3@gatech.edu)

mparvez3

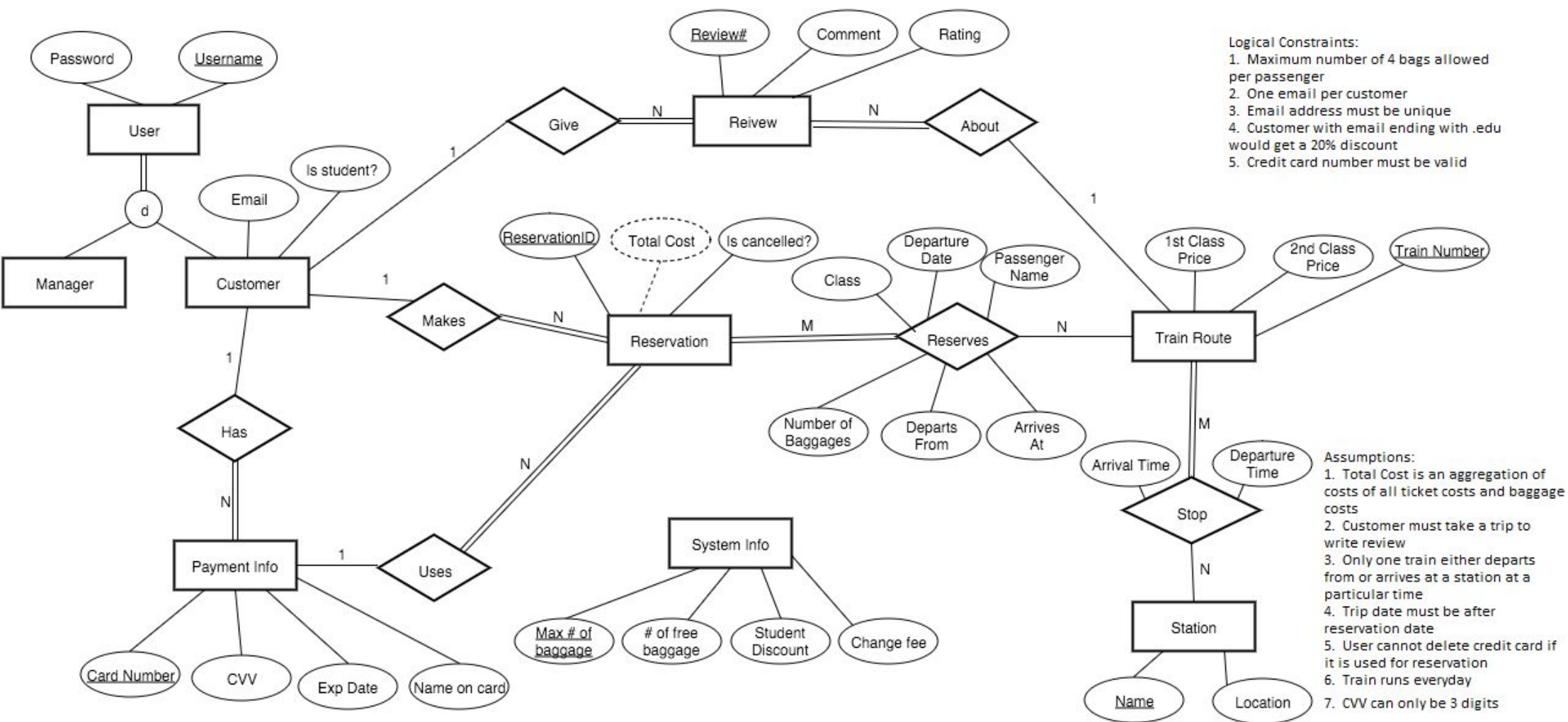
Wenlu Fu

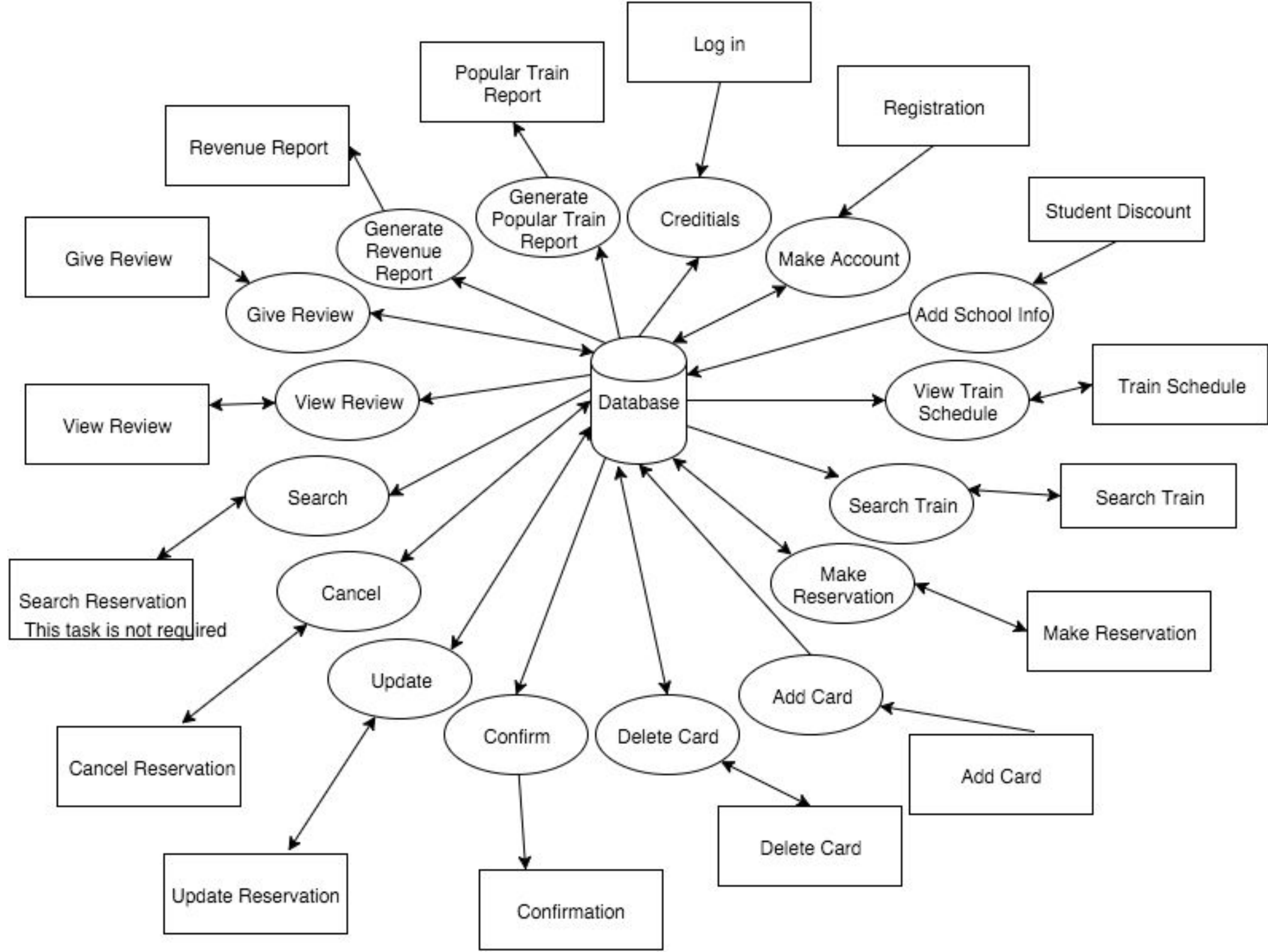
Section A

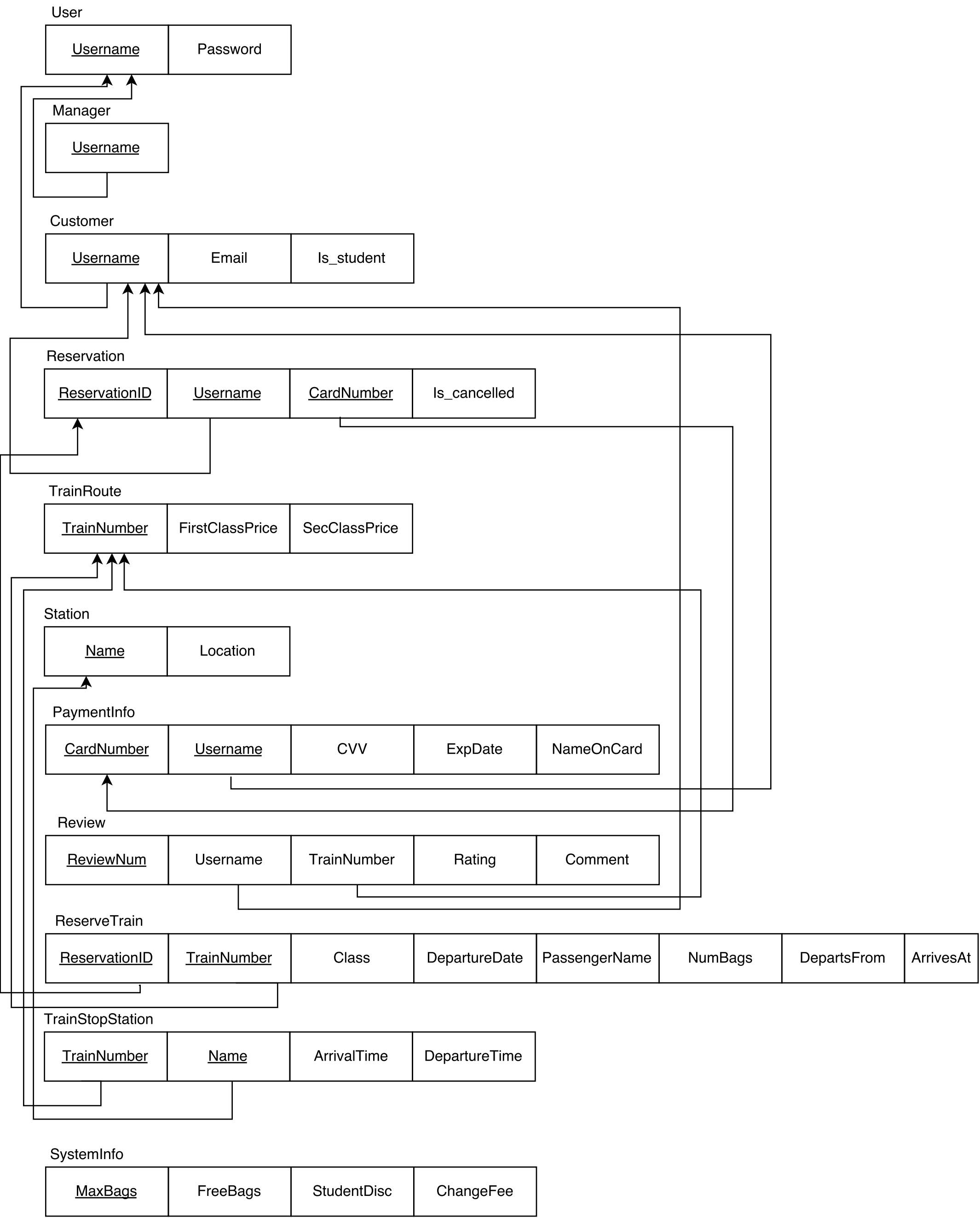
[wfu32@gatech.edu](mailto:wfu32@gatech.edu)

wfu32

Group Number # 23







## Create Table Statements

```
CREATE TABLE Manager
(M_Username VARCHAR(15) PRIMARY KEY,
 M_Password VARCHAR(15) NOT NULL);
```

```
CREATE TABLE Customer
(C_Username VARCHAR(15) PRIMARY KEY,
 C_Password VARCHAR(15) NOT NULL,
 Email VARCHAR(30) NOT NULL,
 Is_student BOOLEAN NOT NULL,
 UNIQUE (Email));
```

```
CREATE TABLE PaymentInfo
(CardNumber CHAR(16) PRIMARY KEY,
 CVV CHAR(3) NOT NULL,
 ExpDate DATE NOT NULL,
 NameOnCard VARCHAR(50) NOT NULL,
 C_Username VARCHAR(15) NOT NULL,
 FOREIGN KEY (C_Username) REFERENCES Customer(C_Username));
```

```
CREATE TABLE Reservation
(ReservationID INT PRIMARY KEY AUTO_INCREMENT,
 CardNumber CHAR(16) NOT NULL,
 C_Username VARCHAR(15) NOT NULL,
 Is_cancelled BOOLEAN NOT NULL,
 FOREIGN KEY (C_Username) REFERENCES Customer(C_Username),
 FOREIGN KEY (CardNumber) REFERENCES PaymentInfo(CardNumber)
 ON DELETE RESTRICT);
```

```
CREATE TABLE TrainRoute
(TrainNumber INT PRIMARY KEY,
 FirstClassPrice DECIMAL(4,2) NOT NULL,
 SecClassPrice DECIMAL(4,2) NOT NULL);
```

```
CREATE TABLE Station
(Name VARCHAR(255) PRIMARY KEY,
 Location VARCHAR(255));
```

```
CREATE TABLE ReserveTrain
(ReservationID INT NOT NULL,
 TrainNumber INT NOT NULL,
 Class ENUM('FirstClass', 'SecClass') NOT NULL,
 DepartureDate DATE NOT NULL,
 PassengerName VARCHAR(50) NOT NULL,
 NumBags ENUM('0', '1', '2', '3', '4') NOT NULL,
 DepartsFrom VARCHAR(255) NOT NULL,
 ArrivesAt VARCHAR(255) NOT NULL,
 PRIMARY KEY (ReservationID, TrainNumber),
 FOREIGN KEY (ReservationID) REFERENCES Reservation(ReservationID),
 FOREIGN KEY (DepartsFrom) REFERENCES Station(Name),
 FOREIGN KEY (ArrivesAt) REFERENCES Station(Name),
 FOREIGN KEY (TrainNumber) REFERENCES TrainRoute(TrainNumber));
```

```
CREATE TABLE Review
(ReviewNum INT PRIMARY KEY AUTO_INCREMENT,
 C_Username VARCHAR(15) NOT NULL,
 TrainNumber INT NOT NULL,
 Rating ENUM('very good', 'good', 'neutral', 'bad', 'very bad') NOT NULL,
 Comment VARCHAR(255),
 FOREIGN KEY (C_Username) REFERENCES Customer(C_Username),
 FOREIGN KEY (TrainNumber) REFERENCES TrainRoute(TrainNumber));
```

```
CREATE TABLE TrainStopStation
(TrainNumber INT NOT NULL,
 Name VARCHAR(255) NOT NULL,
 ArrivalTime TIME NOT NULL,
 DepartureTime TIME NOT NULL,
 PRIMARY KEY (TrainNumber, Name),
 FOREIGN KEY (TrainNumber) REFERENCES TrainRoute(TrainNumber),
 FOREIGN KEY (Name) REFERENCES Station(Name));
```

```
CREATE TABLE SystemInfo  
(MaxBags INT PRIMARY KEY,  
  FreeBags INT NOT NULL,  
  StudentDisc DECIMAL(5,2) NOT NULL,  
  ChangeFee DECIMAL(5,2) NOT NULL);
```