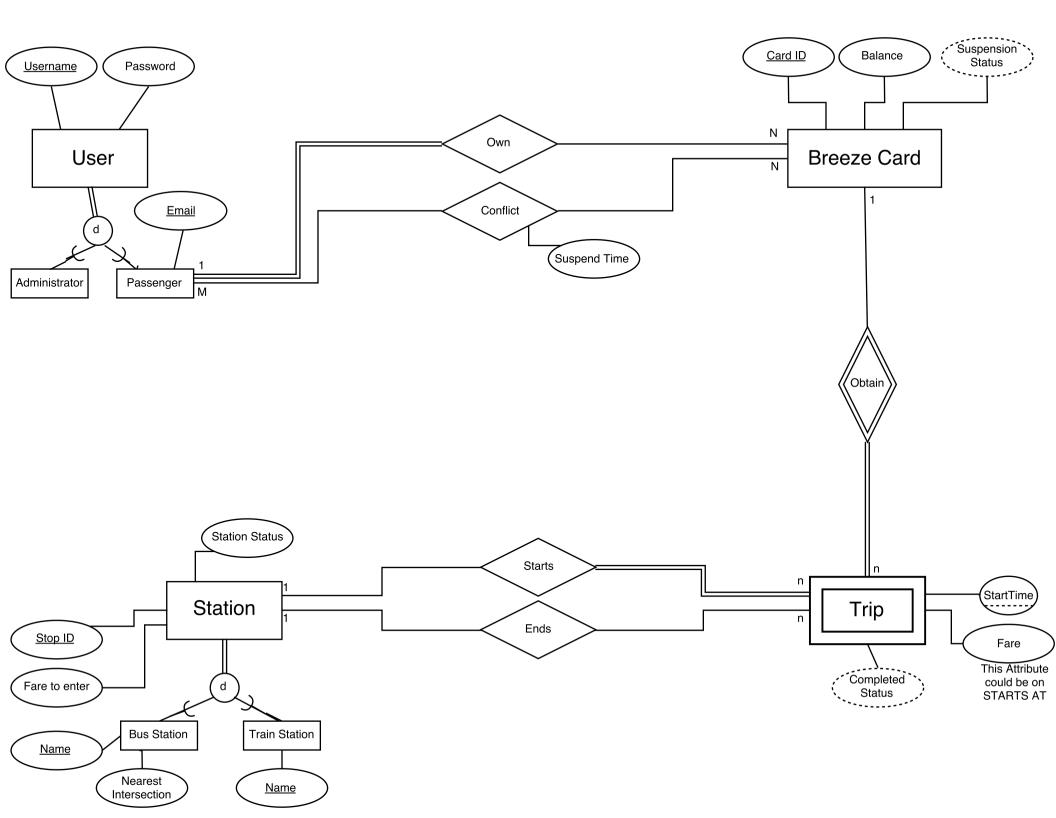
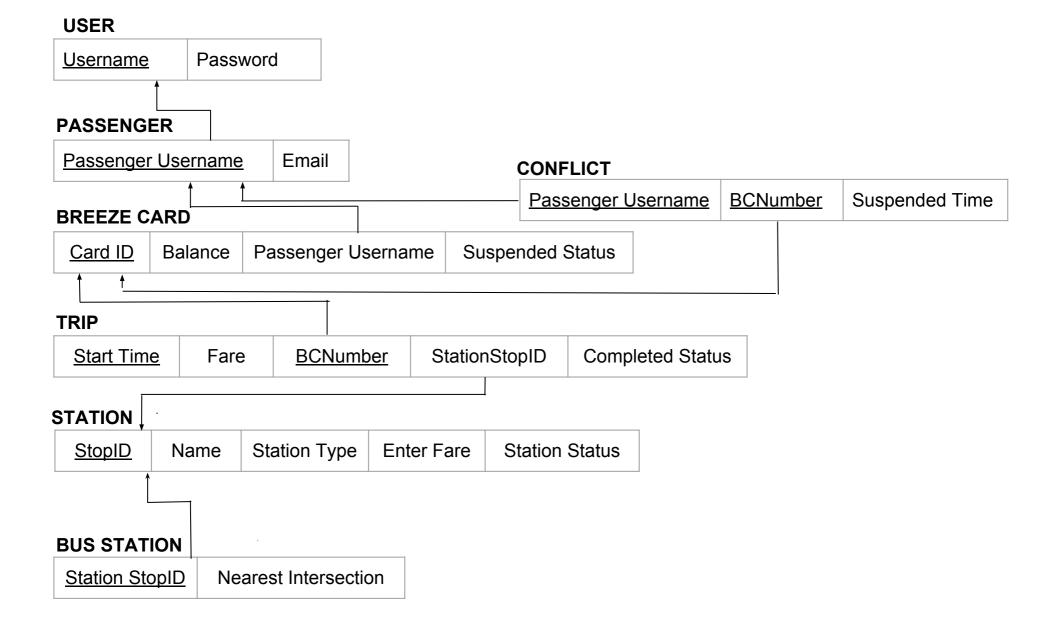
## **TEAM 91**

Phase [2]

Zijin Luo (zluo68) Jinghua Zhang (jzhang866) Zhu Zhuang (zzhuang38)





```
CREATE TABLE USER
                                                   NOT NULL,
      Username
                                VARCHAR(25)
      Password
                                VARCHAR(25)
                                                   NOT NULL,
      CONSTRAINT USER_PK
             PRIMARY KEY (Username)
);
CREATE TABLE PASSENGER
(
                                VARCHAR(25)
                                                   NOT NULL,
      Username
                                                   NOT NULL,
      Email
                                VARCHAR(50)
      CONSTRAINT PASENGER_PK
             PRIMARY KEY (Username),
      CONSTRAINT PASSENGER_UNIQUE
             UNIQUE (Email)
             CHECK (Email like '^[A-Z0-9._%-]+@[A-Z0-9.-]+\.[A-Z]{2,4}$'),
      CONSTRAINT PASENGER FK
             FOREIGN KEY ('Username') REFERENCES USER('Username')
                   ON DELETE CASCADE ON UPDATE CASCADE
);
CREATE TABLE BREEZECARD
(
      Card ID
                                CHAR(16)
                                                   NOT NULL,
      Balance
                                DECIMAL(6, 2)
                                                   NOT NULL,
      Passenger Username
                                VARCHAR(25),
      Suspended_Status
                                                   NOT NULL,
                         BOOLEAN
      CONSTRAINT BREEZECARD PK
             PRIMARY KEY (Card ID),
      CONSTRAINT BREEZECARD VALUE
            CHECK (Balance >= 0 and Balance <= 1000),
      CONSTRAINT BREEZECARD FK
             FOREIGN KEY ('Passenger Username') REFERENCES PASSENGER ('Username')
                   ON DELETE SET NULL
                                             ON UPDATE CASCADE
);
CREATE TABLE STATION
(
      StopID
                                VARCHAR(30)
                                                   NOT NULL,
      Station_Name
                                VARCHAR(30)
                                                   NOT NULL,
      Station Type
                                VARCHAR(5)
                                                   NOT NULL,
      Enter_Fare
                                DECIMAL(4, 2)
                                                   NOT NULL,
      Station_Status
                                BOOLEAN
                                                   NOT NULL,
      CONSTRAINT STATION PK
             PRIMARY KEY (StopID),
      CONSTRAINT STATION_UNIQUE
             UNIQUE (Station_Name, Station_Type),
      CONSTRAINT STATION FARE
             CHECK (Enter_Fare >= 0 and Enter_Fare <= 50)
);
```

```
CREATE TABLE BUSSTATION
      Station StopID
                                VARCHAR(30) NOT NULL,
      Intersection
                                VARCHAR(30),
      CONSTRAINT BUSSTATION_PK
             PRIMARY KEY (Station StopID),
      CONSTRAINT BUSSTATION FK
             FOREIGN KEY ('Station StopID') REFERENCES STATION ('StopID')
                   ON DELETE CASCADE ON UPDATE CASCADE
);
CREATE TABLE TRIP
      Start_Time
                                TIMESTAMP
                                                   NOT NULL,
      Fare
                                DECIMAL(4, 2)
                                                   NOT NULL,
      BCNumber
                                CHAR(16)
                                                   NOT NULL,
      Station StopID
                                VARCHAR(30)
                                                   NOT NULL,
      Conpleted Status
                                                   NOT NULL,
                         BOOLEAN
      CONSTRAINT TRIP_PK
             PRIMARY KEY (Start Time, BCNumber)
      CONSTRAINT TRIP_FK_1
             FOREIGN KEY ('Station StopID') REFERENCES STATION ('StopID')
                   ON DELETE CASCADE ON UPDATE CASCADE,
      CONSTRAINT TRIP FK 2
             FOREIGN KEY ('BCNumber') REFERENCES BREEZECARD ('card_Number')
                   ON DELETE CASCADE ON UPDATE CASCADE
);
CREATE TABLE CONFLICT
      Passenger_Username
                                VARCHAR(25)
                                                   NOT NULL,
      BCNumber
                                CHAR(16)
                                                   NOT NULL,
      Suspended_Time
                                DATE
                                                   NOT NULL,
      CONSTRAINT CONFLICT_PK
             PRIMARY KEY (PassengerUsername, BCNumber),
      CONSTRAINT CONFLICT FK 1
             FOREIGN KEY ('Passenger Username') REFERENCES PASSENGER ('Username')
                   ON DELETE CASCADE ON UPDATE CASCADE,
      CONSTRAINT CONFLICT FK 2
             FOREIGN KEY ('BCNumber') REFERENCES BREEZECARD ('Card ID')
                   ON DELETE CASCADE ON UPDATE CASCADE
);
```