# TEAM 38
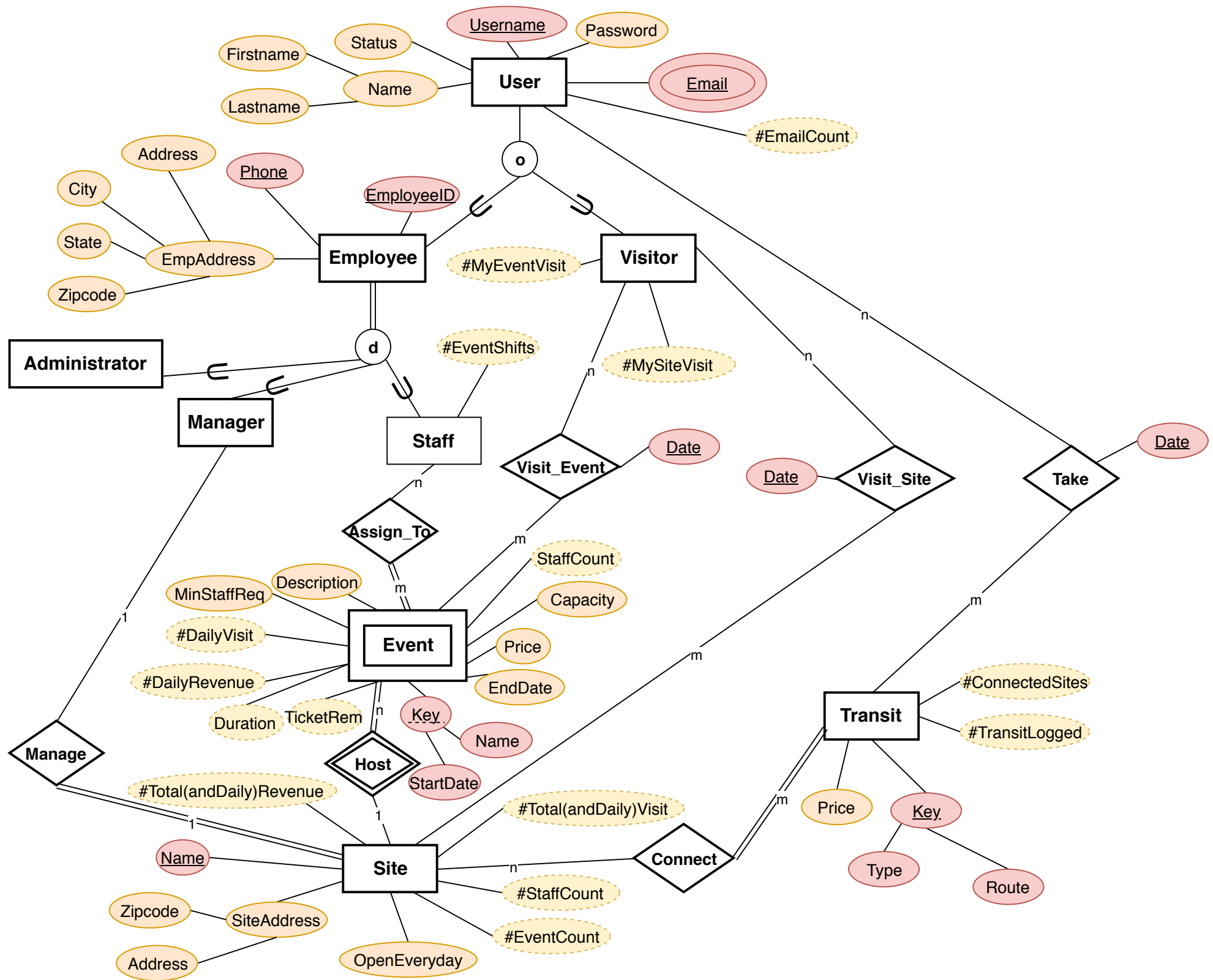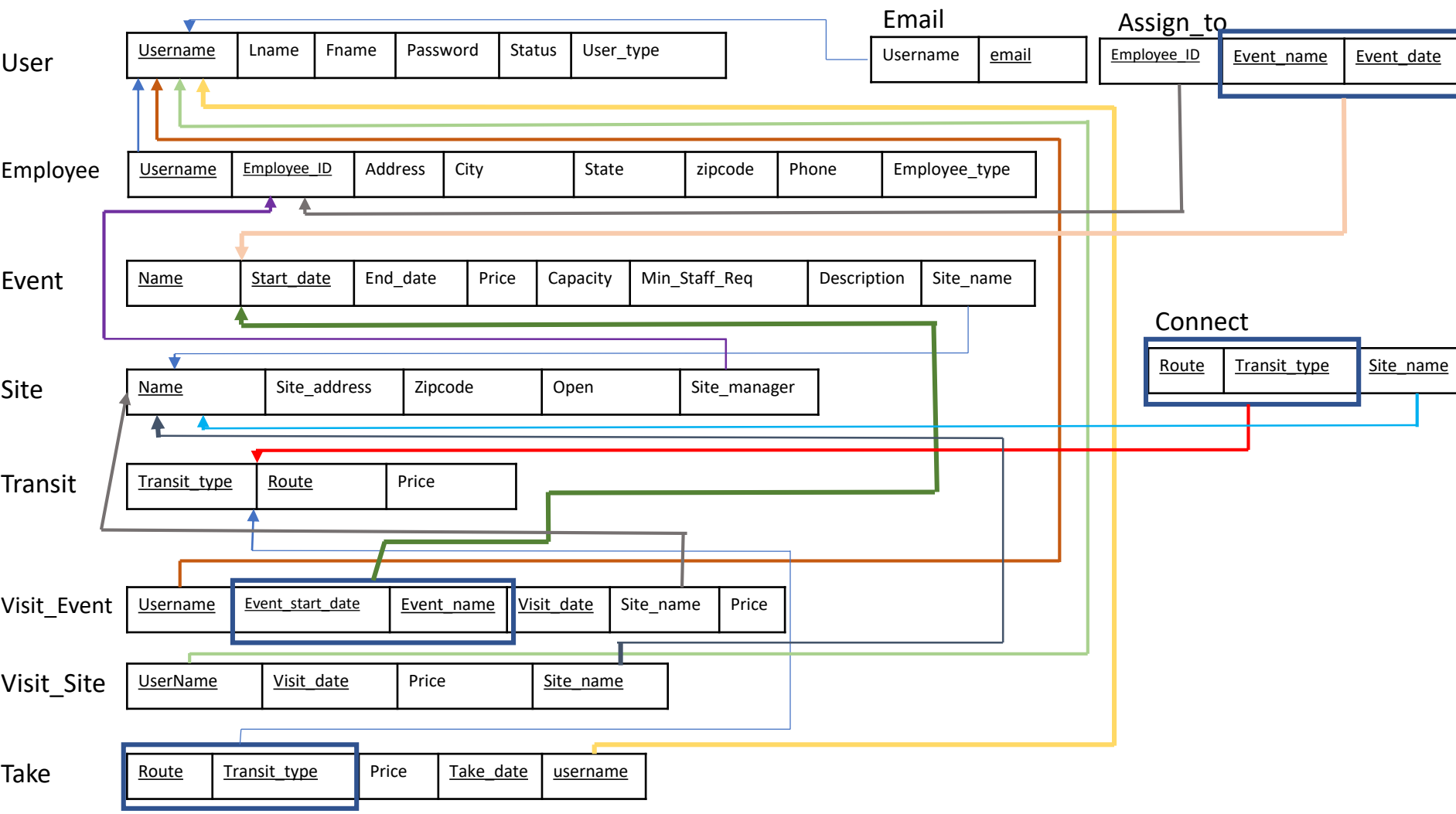## Phase [2]

Sabrina Whitt (swhitt3)
Truc Pham (mpham33)
Adam Chau (achau30)
Rayyan Thaaj (rthaaj3)
Margo Bridgers (mbridgers3)

**User**

| Username | Lname | Fname | Password | Status | User_type |
|---|---|---|---|---|---|

**Email**

| Username | email |
|---|---|

**Assign_to**

| Employee_ID | Event_name | Event_date |
|---|---|---|

**Employee**

| Username | Employee_ID | Address | City | State | zipcode | Phone | Employee_type |
|---|---|---|---|---|---|---|---|

**Event**

| Name | Start_date | End_date | Price | Capacity | Min_Staff_Req | Description | Site_name |
|---|---|---|---|---|---|---|---|

**Connect**

| Route | Transit_type | Site_name |
|---|---|---|

**Site**

| Name | Site_address | Zipcode | Open | Site_manager |
|---|---|---|---|---|

**Transit**

| Transit_type | Route | Price |
|---|---|---|

**Visit_Event**

| Username | Event_start_date | Event_name | Visit_date | Site_name | Price |
|---|---|---|---|---|---|

**Visit_Site**

| UserName | Visit_date | Price | Site_name |
|---|---|---|---|

**Take**

| Route | Transit_type | Price | Take_date | username |
|---|---|---|---|---|

```sql
CREATE TABLE Email (
    Username varchar(255) NOT NULL,
    Email varchar(255) NOT NULL,
    PRIMARY KEY (Email),
    UNIQUE (Email),
    FOREIGN KEY (Username) REFERENCES User (Username)
    ON DELETE CASCADE ON UPDATE CASCADE
);

CREATE TABLE Connect (
    Route varchar(255) NOT NULL,
    Transit_type ENUM('MARTA', 'Bus', 'Bike'),
    Site_name varchar(255) NOT NULL,
    PRIMARY KEY (Site_name, Transit_type, Route),
    FOREIGN KEY (Site_name) REFERENCES Site (Name)
    ON DELETE CASCADE ON UPDATE CASCADE,
    FOREIGN KEY (Route) REFERENCES Transit (Route)
    ON DELETE CASCADE ON UPDATE CASCADE,
    FOREIGN KEY (Transit_type) REFERENCES Transit (Transit_type)
    ON DELETE CASCADE ON UPDATE CASCADE
);

CREATE TABLE Assign_to (
    Employee_ID int NOT NULL,
    Event_name varchar(255) NOT NULL,
    Event_date date NOT NULL,
    PRIMARY KEY (Employee_ID, Event_name, Event_date),
    FOREIGN KEY (Employee_ID) REFERENCES Employee (Employee_ID)
    ON DELETE CASCADE ON UPDATE CASCADE,
    FOREIGN KEY (Event_name) REFERENCES Event (Name)
    ON DELETE CASCADE ON UPDATE CASCADE,
    FOREIGN KEY (Event_date) REFERENCES Event (Start_date)
    ON DELETE CASCADE ON UPDATE CASCADE
);
```

```sql
CREATE TABLE Take (
  Route varchar(255) NOT NULL,
  Transit_type ENUM('MARTA', 'Bus', 'Bike'),
  Take_date date NOT NULL,
  Username varchar(255) NOT NULL,
  Price int NOT NULL,
  PRIMARY KEY (Route, Transit_type, Date, Username),
  FOREIGN KEY (Route) REFERENCES Transit (Route)
  ON DELETE CASCADE ON UPDATE CASCADE,
  FOREIGN KEY (Transit_type) REFERENCES Transit (Transit_type)
  ON DELETE CASCADE ON UPDATE CASCADE,
  FOREIGN KEY (Username) REFERENCES User (Username)
  ON DELETE CASCADE ON UPDATE CASCADE
);

CREATE TABLE Visit_Site (
  Username varchar(255) NOT NULL,
  Visit_date date NOT NULL,
  Site_name varchar(255) NOT NULL,
  Price int NOT NULL,
  PRIMARY KEY (Username, Site_name, Date),
  FOREIGN KEY (Username) REFERENCES User (Username)
  ON DELETE CASCADE ON UPDATE CASCADE,
  FOREIGN KEY (Site_name) REFERENCES Site (Name)
  ON DELETE CASCADE ON UPDATE CASCADE
);

CREATE TABLE Visit_Event (
  Username varchar(255) NOT NULL,
  Visit_date date NOT NULL,
  Event_start_date date NOT NULL,
  Event_name varchar(255) NOT NULL,
  Site_name varchar(255) NOT NULL,
  Price int NOT NULL,
  PRIMARY KEY (Date, Username, Event_start_date, Event_name),
  FOREIGN KEY (Username) REFERENCES User (Username)
  ON DELETE CASCADE ON UPDATE CASCADE,
  FOREIGN KEY (Event_start_date) REFERENCES Event (Start_date)
  ON DELETE CASCADE ON UPDATE CASCADE,
  FOREIGN KEY (Event_name) REFERENCES Event (Name)
  ON DELETE CASCADE ON UPDATE CASCADE,
  FOREIGN KEY (Site_name) REFERENCES Site (Name)
  ON DELETE CASCADE ON UPDATE CASCADE
);
```

```sql
CREATE TABLE Transit (
 Route varchar(255) NOT NULL,
 Transit_type ENUM('MARTA', 'Bus', 'Bike'),
 Price int NOT NULL,
 PRIMARY KEY (Route, Transit_type)
);

 CREATE TABLE Site (
 Name varchar(255) NOT NULL,
 Site_address varchar(255),
 Zipcode int NOT NULL,
 Open ENUM('Yes', 'No'),
 Site_manager varchar(255) NOT NULL,
 PRIMARY KEY (Name),
 FOREIGN KEY (Site_manager) REFERENCES Employee (Employee_id)
 ON DELETE CASCADE ON UPDATE CASCADE
);

CREATE TABLE Event (
 Name varchar(255) NOT NULL,
 Start_date date NOT NULL,
 End_date date NOT NULL,
 Price int NOT NULL,
 Capacity int NOT NULL,
 Min_staff_req int NOT NULL,
 Description TEXT NOT NULL,
 Site_name varchar(255) NOT NULL,
 PRIMARY KEY (Name, Start_date),
 FOREIGN KEY (Site_name) REFERENCES Site (Name)
 ON DELETE CASCADE ON UPDATE CASCADE
);

CREATE TABLE Employee (
  Username varchar(255) NOT NULL,
  EmployeeID int NOT NULL,
  Address varchar(255) NOT NULL,
  Phone char(10) NOT NULL,
  City varchar(255) NOT NULL,
  State varchar(3) NOT NULL,
  Zipcode int NOT NULL,
  Employee_type ENUM('Manager', 'Staff'),
  PRIMARY KEY (EmployeeID),
  FOREIGN KEY (Username) REFERENCES User (Username)
  ON DELETE CASCADE ON UPDATE CASCADE
);
```

```sql
CREATE TABLE User (
    Username varchar(255) NOT NULL,
    Lname varchar(255) NOT NULL,
    Fname varchar(255) NOT NULL,
    Password varchar(255) NOT NULL,
    Status ENUM('Approved','Pending', 'Declined'),
    User_type ENUM('Employee','Visitor'),
    PRIMARY KEY (Username)
);
```