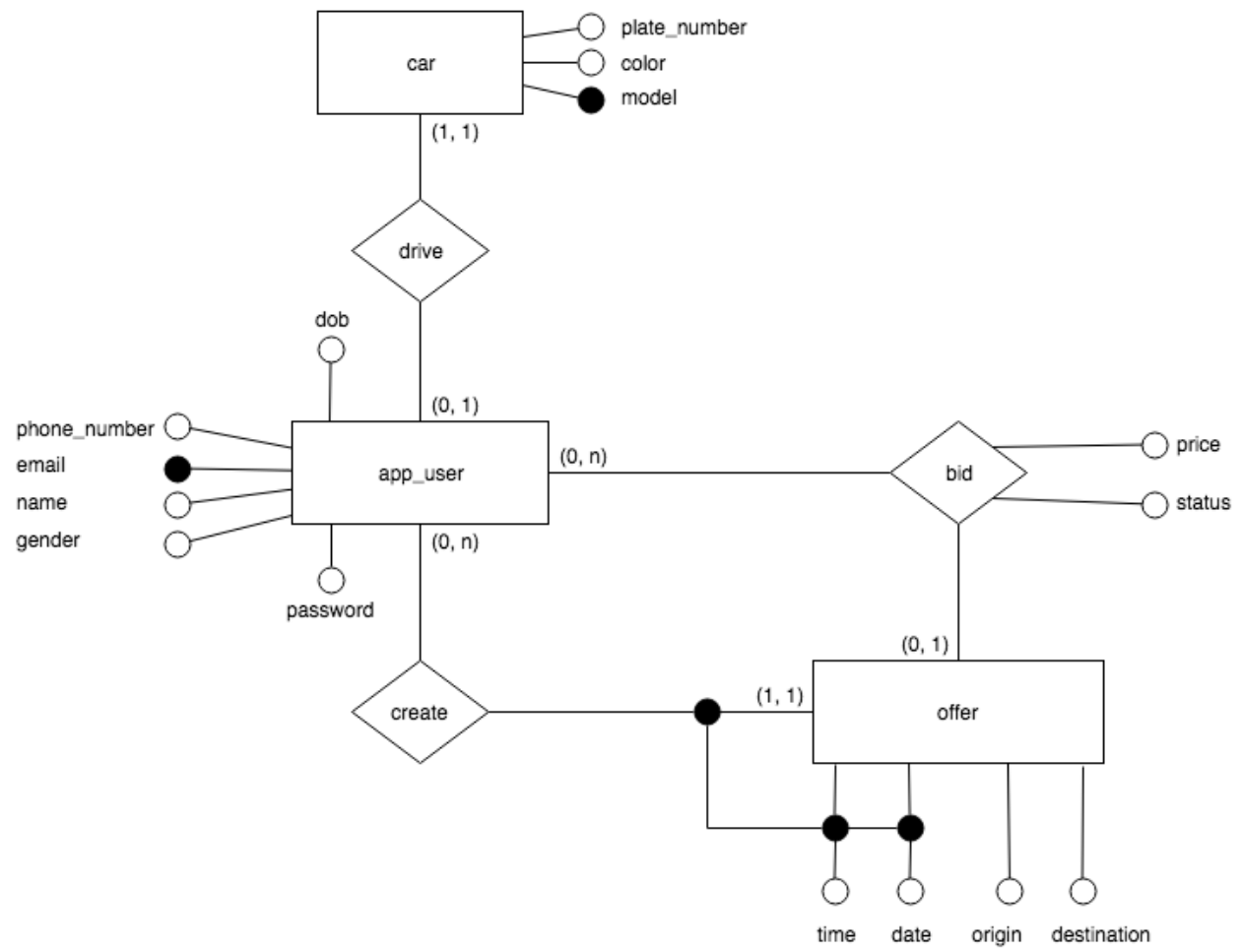


## Design Report – Group 48



```

CREATE TABLE car (
    plate_number VARCHAR(8) PRIMARY KEY,
    model VARCHAR(16) NOT NULL,
    color VARCHAR(16) NOT NULL
);

CREATE TABLE app_user (
    phone_number CHAR(8) UNIQUE NOT NULL,
    email VARCHAR(32) PRIMARY KEY,
    name VARCHAR(32) NOT NULL,
    gender CHAR(1) NOT NULL CONSTRAINT gender
        CHECK(gender = 'M' OR gender = 'F'),
    dob DATE NOT NULL,
    password VARCHAR(64) NOT NULL
);

CREATE TABLE drive (
    driver VARCHAR(32),
    car VARCHAR(8),
    PRIMARY KEY (driver, car),
    FOREIGN KEY (driver) REFERENCES app_user(email),
    FOREIGN KEY (car) REFERENCES car(plate_number)
);

CREATE TABLE offer(
    date_of_ride DATE,
    time_of_ride TIME,
    driver VARCHAR(32),
    origin VARCHAR(64) NOT NULL,
    destination VARCHAR(64) NOT NULL,
    PRIMARY KEY (date_of_ride, time_of_ride, driver),
    FOREIGN KEY (driver) REFERENCES app_user(email)
);

CREATE TABLE bid (
    date_of_ride DATE,
    time_of_ride TIME,
    driver VARCHAR(32),
    passenger VARCHAR(32),
    price DECIMAL(19, 4) NOT NULL,
    status VARCHAR(16) NOT NULL
    CONSTRAINT status
    CHECK(status = 'pending' OR status = 'successful'
        OR status = 'unsucessful'),
    PRIMARY KEY (date_of_ride, time_of_ride, driver, passenger),
    FOREIGN KEY (date_of_ride, time_of_ride, driver) REFERENCES
        offer(date_of_ride, time_of_ride, driver),
    FOREIGN KEY (passenger) REFERENCES app_user(email),
    CHECK(driver <> passenger)
);

```