

The BEst Carpooling Website You will Ever see

Prepared by the Amazing Group 31



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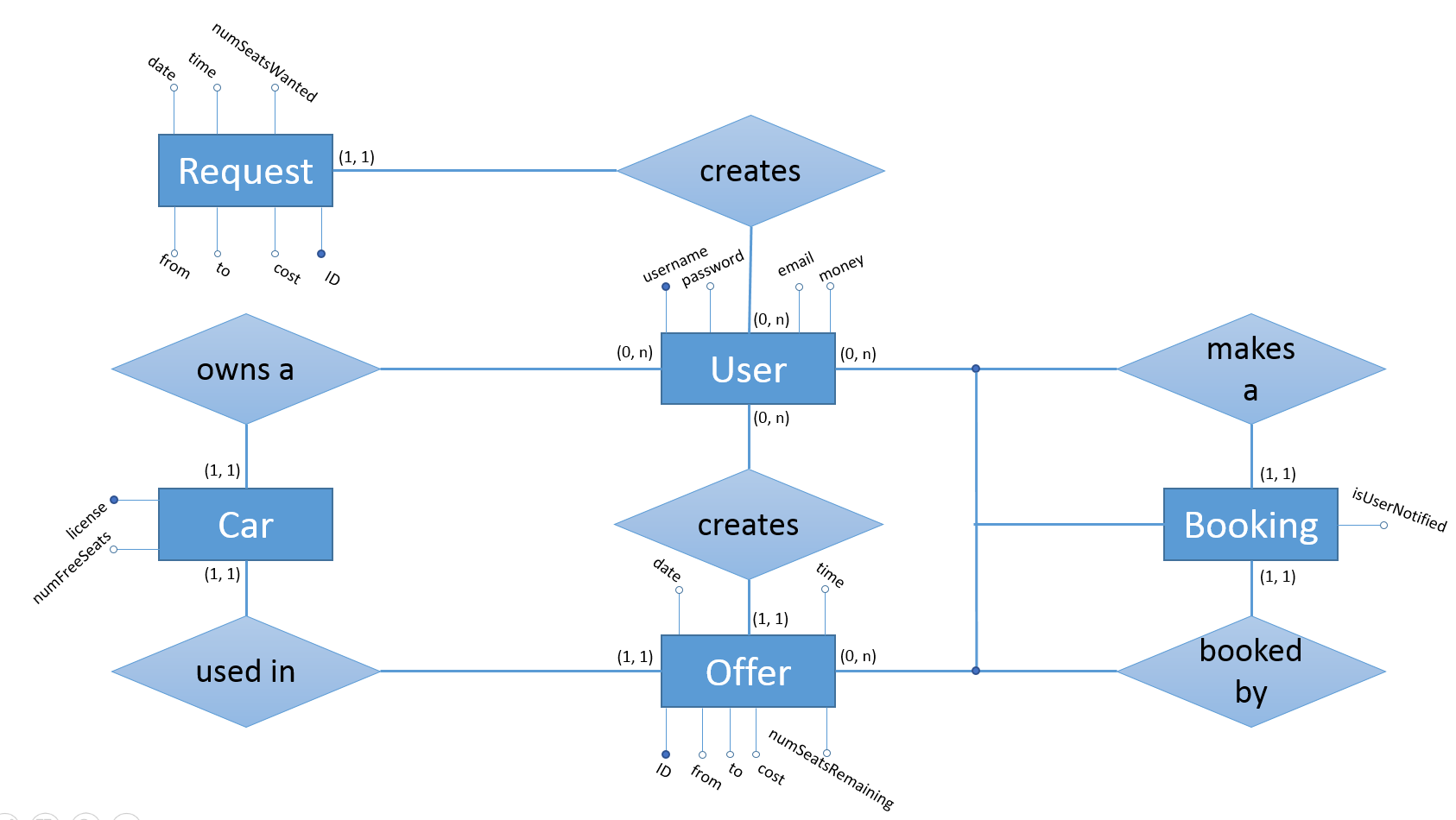
**AMAZING ARCHITECTURE**

**Web Server:** Apache

**Server Page Language:** PHP

**Database Management System:** Postgres

**EXCELLENT ER DIAGRAM**



**REMARKABLE RELATIONAL SCHEMA**

CREATE TABLE users(

name VARCHAR(64) PRIMARY KEY,

password VARCHAR(64) NOT NULL,

email VARCHAR(128) UNIQUE,

money numeric NOT NULL

);

CREATE TABLE creates\_request(

rid numeric PRIMARY KEY,

fromWhere VARCHAR(128) NOT NULL,

toWhere VARCHAR(128) NOT NULL,

numSeatsWanted numeric CHECK(numSeatsWanted >= 1),

rDate DATE NOT NULL,

rTime VARCHAR(4) NOT NULL,

requestor VARCHAR(64),

FOREIGN KEY (requestor) REFERENCES users(name)

);

CREATE TABLE owns\_car(

license VARCHAR(16) PRIMARY KEY,

numFreeSeats numeric CHECK(numFreeSeats >= 1),

cOwner VARCHAR(64) REFERENCES users(name)

);

CREATE TABLE creates\_offer(

offerid numeric PRIMARY KEY,

fromWhere VARCHAR(128) NOT NULL,

toWhere VARCHAR(128) NOT NULL,

tripCost numeric NOT NULL,

numSeatsRemaining numeric NOT NULL CHECK (numSeatsRemaining >= 0),

offerDate DATE NOT NULL,

offerTime VARCHAR(4) NOT NULL,

usedCar VARCHAR(16) REFERENCES owns\_car(license)

);

CREATE TABLE booking(

isUserNotified VARCHAR(8) NOT NULL,

username VARCHAR(64) REFERENCES users(name),

offerid numeric REFERENCES creates\_offer(offerid),

PRIMARY KEY (username, offerid)

);

**SUPERB SQL CODE SAMPLES**

SELECT \*

FROM creates\_offer o

WHERE o.numseatsremaining > 0

AND o.offerdate >= '$date'

AND o.usedcar NOT IN

(SELECT c.license

FROM owns\_car c

WHERE c.cowner = '$username')

AND NOT EXISTS

(SELECT \* FROM booking b

WHERE b.username = '$username'

AND b.offerid = o.offerid)

The above code fragment is used when the user wishes to looks for currently available offer. The first NOT IN clause prevents users from getting offers which he himself has offered, and the NOT EXIST clause prevents the user from getting offers in which he has already booked.

**WOW! WEB INTERFACE SCREENSHOTS**

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