Bus Traveler Trip Adviser Android App

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1.0 APP DESCRIPTION

1.1 Long Story Short

A bus ticket booking app with some extra features
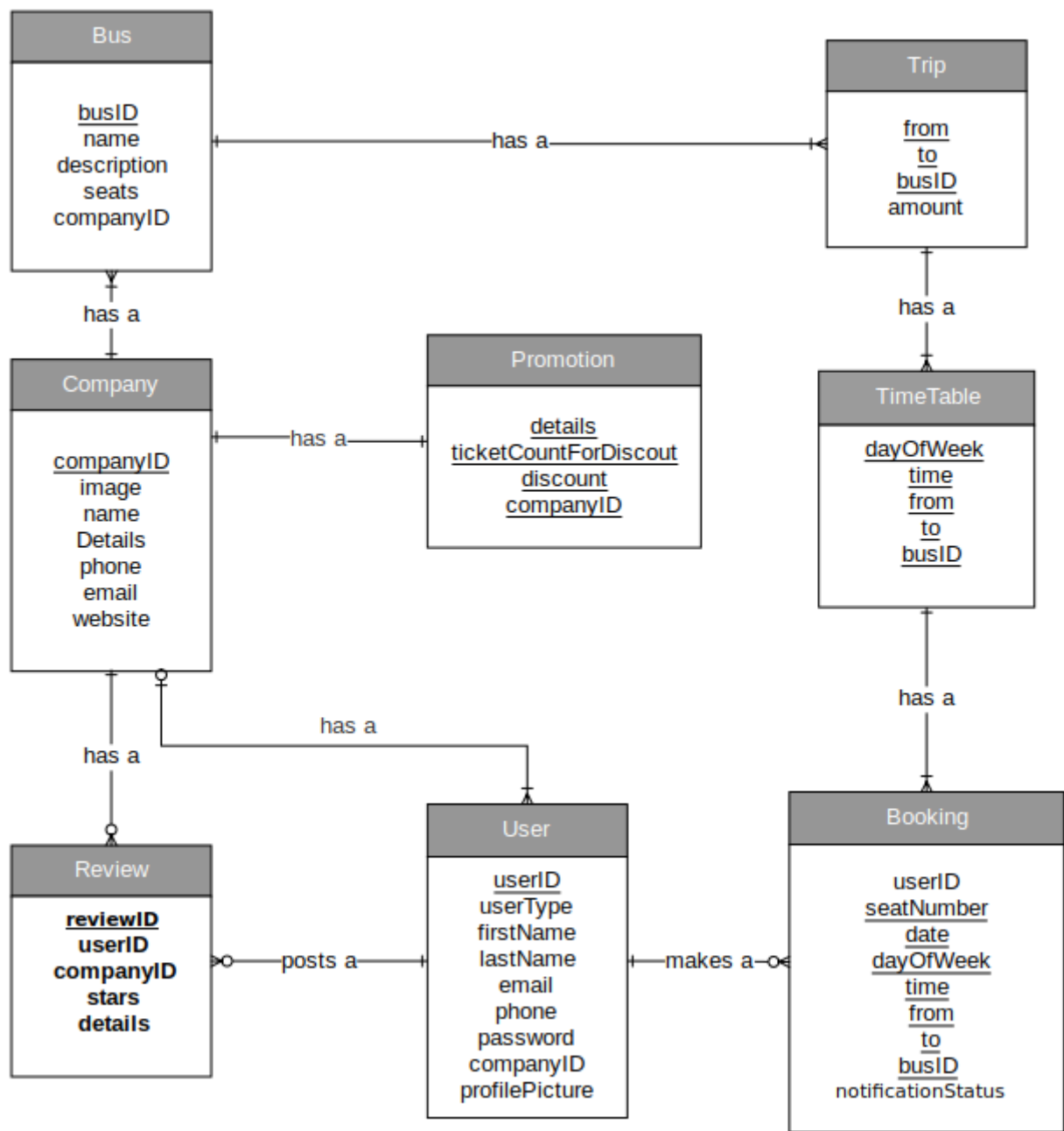
1.2 Long Story

Problem Definition

Currently maintenance of an on-line presence is sustained via the already mentioned platforms. Lack of an integrated environment catering to traveler's tour preferences and the issuing of paper based ticket has given rise to a number of problems namely: Bus companies usually have to distribute pamphlets usually containing unsorted trip schedules making them time consuming to read. Customer are often uninformed about travel promotions hence not calming their deserved discount. Customers sometimes
get carried away with the day's work and often forget to prepare for their trips on time. Customers running stationary or electronics businesses usually have to cancel their booking on the day of travel because of unfavorable weather conditions such as rainy days. It is time consuming for customers as they usually have to walk through the station looking for the best bus available. It costs money for bus companies to advertise and maintain an on-line presence. Customers buying ticket via phone often can be booked for the wrong trip as ticket sellers usually have to handle a sequence of customers via phone call before recording the booking details. Incorrect day or double booking are common.

Problem Solution

The purposes of this project is to develop a Bus Traveler Trip Adviser system that will address the said problems. Once implemented the system will introduce a computerized way of making accessible all the important bus company details. It will provide: Notification a day before departure. Promotions to loyal customers. Weather Data for traveling day. Voice searching as it is quick, convenient and improves accessibility. Ratings and reviews allowing customers to make informed trip decisions and companies to improve their services. Sharing of bus details on social media, increasing popularity of the application, resulting in more revenue. Entering of locations (source and destination) using a place picker, increasing data reliability, offloading the task of selecting booking preference to customers, thus no responsibility will be held by any company for any incorrect booking. The application will prevent booking on past days and week days when bus is not traveling. The booking mechanism will operate on a first come first serve basis, preventing double booking, leading to better record keeping and customer satisfaction. It will provide real time searching for convenience and speed.

2.0 ENTITY RELATIONSHIP DIAGRAM (ERD)

Bus

busID
name
description
seats
companyID

Trip

from
to
busID
amount

—has a—

Promotion

details
ticketCountForDiscout
discount
companyID

Company

companyID
image
name
Details
phone
email
website

—has a—

TimeTable

dayOfWeek
time
from
to
busID

has a

has a

has a

has a

Review

reviewID
userID
companyID
stars
details

—posts a—

User

userID
userType
firstName
lastName
email
phone
password
companyID
profilePicture

—makes a—

Booking

userID
seatNumber
date
dayOfWeek
time
from
to
busID
notificationStatus

3.0 SYSTEM PROJECT FOLDERS

The app is in two parts ie
- <u>Client side</u> made using Java & XML & its Root folder = **IntercityTicketBooking**
- <u>Server side</u> made using PHP & its Root folder = **public_html**

4.0 FIX THIS CODE BEFORE RUNNING THE APP

4.1 Client side code – JAVA & XML

Project Root folder: IntercityTicketBooking
Instruction: Edit the following files before building & running the app.

File name: AndroidManifest.xml

```
<meta-data
    android:name="com.google.android.geo.API_KEY"
    android:value="ENTER YOUR GOOGLE PLACE PICKER API KEY HERE"
```

File name: WeatherUtil.java

```
public static final String API_KEY = "ENTER YOUR OPENWEATHERMAP API KEY HERE";
```

File name: Constants.java

```
public static final String ROOT_URL = "ENTER THE ROOT URL FOR THE SERVER SIDE CODE HERE";
```

Tips for getting ip address of xampp localhost machine:
1. Create a hotsport on your android phone
2. Connect your laptop(the one running xampp) to the hotsport
3. Get laptop's ip address from the hotsport setting on the phone
4. Place the laptop's ip address in the line code above,
   eg ROOT_URL = 192.168.77.22/public_html

4.2. Sever side code – PHP

Project Root folder: public_html
Instruction: Edit the following files to get before building & running the code.

File name: DatabaseConnect.php

```php
class DatabaseConnect {

    private $serverName = "ENTER YOUR SERVER NAME(IP ADDRESS) EG localhost";
    private $userName = "ENTER YOUR USERNAME";
    private $password = "ENTER YOUR PASSWORD";
```

```php
public static function getServerIP() {
    return 'ENTER YOUR SERVER NAME(IP ADDRESS)';
}
```

Finaly
1. Open the file named **id7750263_tripadviserdb.sql** & Replace all occurances of the string "ENTER YOUR SERVER IP ADDRESS | DOMAIN NAME" with Server's ip address.
2. Execute the file named **id7750263_tripadviserdb.sql** to setup the database
3. Now that you have edited the Android & PHP files & saved them to suite your environment buid the addroid app and run it.

Note: Check the database or **id7750263_tripadviserdb.sql** for passwords if you need them.