

Bike sharing project

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1. ABSTRACT

Vehicle sharing project is used to share the vehicles between different users for very low cost. In this project users at the time of registering have to enter their name, phone number, address, driving license which assures that the person can drive the vehicle. When the users logs in to the system he will be redirected to the nearest bike sharing point on maps where he can get a vehicle and also leave a vehicle which he had used. The price will be generated based on the time he had used the vehicle. In the backend, we have admin who always updates the new sharing stations on the map as of now we are considering all the show rooms nearby, as a sharing point. Users can rate the sharing point with which the cost may differ. Vehicles which we give are car, bike and user can select his choice of vehicle and cost differs as the vehicle differs. Any damage to vehicle should be paid by the user at any premise. If the user takes a bicycle as a vehicle for using the cost generated will be very less. Location of the user can be tracked by the admin any time by using global positioning system. Based on the demand of the vehicle the cost may differ from vehicle to vehicle and will be notified to the user and the main advantage of the system is we don't surge any vehicle and all the vehicles can be driven by the user which makes all the driving freaks go crazy on feet. In case of emergency user can login into the system and give a message to the admin and admin can help the user. Vehicles can be taken as of choice by the user and the respective cost will be generated.

Objective:

Bike sharing system is a unique transit solution that creates a smart, distributed bike-share infrastructure. Our system eliminates the need for stationary bike racks and kiosks; decreasing costs, increasing bicycle usage, and maximizing energy and emissions reductions

2. EXISTING SYSTEM

CAB SURGES is becoming one of the major and challenging issues in big cities. Slow moving vehicles not only delay the journey, but also have impact on environment by polluting air, on economy by wasting working hour and fuel, and on personal life by increasing stress level. In order to book a cab whenever required is really very costly and uneconomical. We might get a damaged cab by which the experience of journey can be annoying and talkative drivers can be disturbing.

DISADVANTAGES

- Difficult to manage

- High cost
- Not accurate and reliable
- Excessive delay may cause

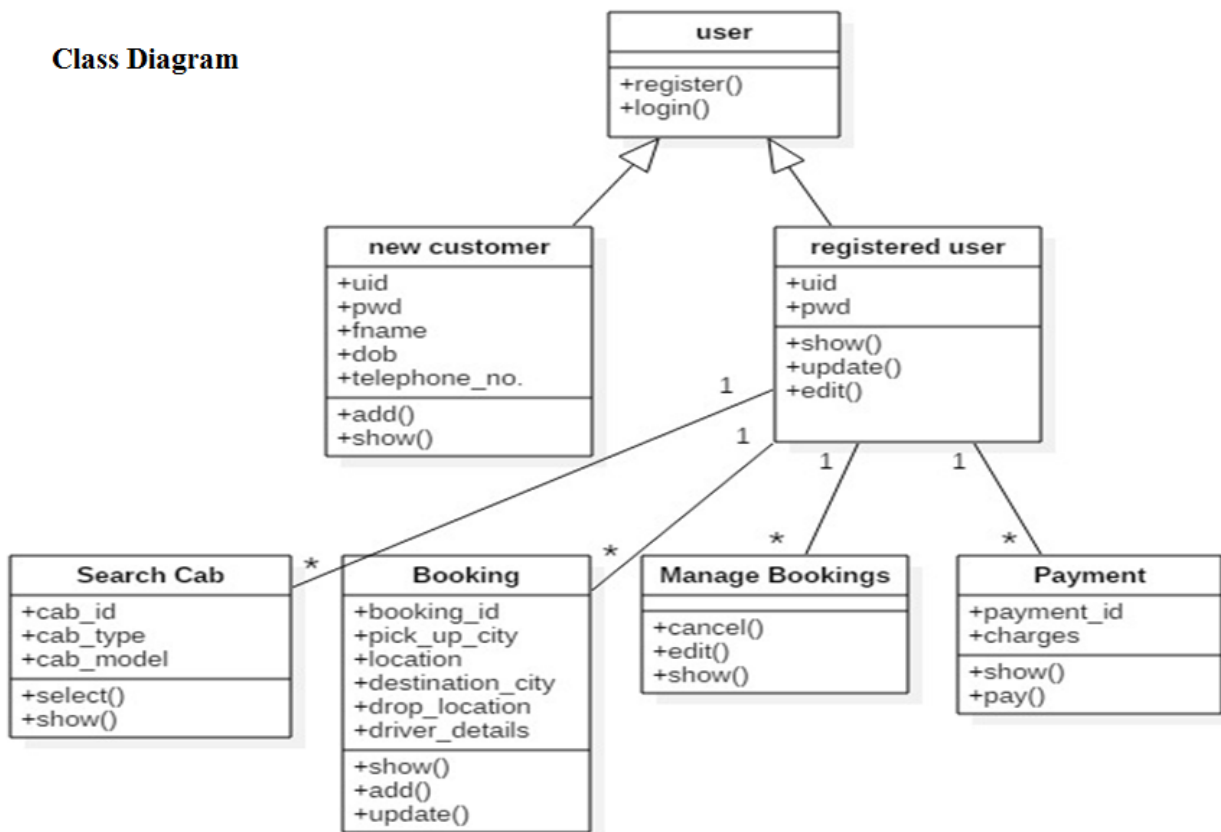
3. PROPOSED SYSTEM

The proposed system consists of two sections: (i) user side we have an web app where he will be redirected to the nearest sharing point and directions to the user point will be shown on the map (ii) The second section is admin side from where he can add the locations of near by sharing locations by which we can get redirected to the near by sharing point and use it.

ADVANTAGES

- High performance
- Lower in cost
- Ultra reliable
- High speed

Class Diagram



4. MODULES

User(login/register):

User can login and register in the web application by providing the necessary details asked and it will be quiet normal as any other login and registration form the only difference here is we ask driving license for sure.

Admin:

Admin can add the locations of the different sharing points in the database and send a notification to the user whenever a new location is added.

Cost:

The cost for different vehicles will be different and the details of cost will be provided in the web application and user can use the vehicle based on the cost.

Emergency:

Users in case of emergency can contact admin at serious accidents and concerned team will be taking care shortly.

Rating:

Every vehicle can be rated by the user and the ratings are open to every customer who wants to use a vehicle which makes the user decision easy at choice making

Feedback:

We love feedback and we will rectifying our company based on the feed back we get.

5 . ACCOMPLISHMENTS (OUTPUTS/OUTCOMES):

The Phase I proposal had the stated goal of researching “solutions that will allow more flexibility in designing the overall system, have better and more accurate data collection,” and to improve overall performance. To achieve this goal several steps were taken. First, the unique requirements of a bike share system were determined, and then design constraints were derived from these requirements. Next, a thorough survey of available wireless technology was performed. Based on these findings, several promising options were procured and tested against the unique requirements of the project. Finally, the best option was developed and implemented.

Server-side functionality was also improved. Support for multiple clients on a single back end was developed. This allows operations for programs with different characteristics, such as universities or urban regions with varying payment structures, to function on the same server. The modularity of data is improved to allow for easy development of user interfaces. Fault tolerance has been improved overall thanks to more robust data handling to reduce failures and increase uptime.

The end result of this work is a significant improvement in data speed and reliability; a crucial step for an advanced bike-share system like the GTB. After completing Phase I work, data packets were reduced

from around 600 bytes per transaction down to 20 bytes per transaction. This is very significant because it reduces costs of operation thanks to smaller data requirements on wireless networks.

Anonymized location data sent by the bikes will be analyzed to identify usage patterns as well as identify supply and demand hotspots. The advanced IT infrastructure creates a research platform for policy investigation, program education, and operational improvements. Georgia Tech and Emory University are implementing a pilot within Emory's existing Bike Emory program. Once tested, the system will be expanded to encompass Georgia Tech's campus and potentially the City of Atlanta. Analysis will be documented and published for adoption by cycling programs worldwide.

6.SAMPLE CODING

TABLENAME: signupdetails

COLUMNNAME	DATATYPE	SIZE
Uname	varchar2	50
passwd	varchar2	30
age	number	5
sex	varchar2	10
city	varchar2	20
state	varchar2	20
pin	varchar2	20
country	varchar2	20
captchacode	varchar2	20

TABLENAME:usercomposebox

COLUMNNAME	DATATYPE	SIZE
composefrom	varchar2	30
composeto	varchar2	20
composesub	varchar2	30
message	varchar2	50
composedt	date	

captcha code varchar2 20

TABLENAME:uploadphoto

COLUMNNAME	DATATYPE	SIZE
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uname	VARCHAR2	20
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photopath	LONG RAW	
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filename	VARCHAR2	20
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captcha code	VARCHAR2	30
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TABLENAME:feedback

COLUMNNAME	DATATYPE	SIZE
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username	VARCHAR2	30
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comments	VARCHAR2	100
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7. REFERENCES

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