An online cab reservation system

Taxi Hub, At your doorstep!

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Introduction

1. "Taxi Hub, at your doorstep!" is a web application which can be used for online cab reservation.

2. The main aim of this web application is to make sure the level of ease increases for the users to book any cab of their choice at a minimal rate.

Tasks Completed

- Completed designing the homepage.
- Completed designing the login,register and profile pages.
- Redesigned the database.

Tasks Completed

- Established a connection to the database and the register, login pages.
- Displaying the maps with pickup and drop location, distance, time and ride estimate.
- Implementing the booking module.

Database Design


```
MySQL 5.7 Command Line Client

mysql> desc bookings;
+------------------+-------------+------+-----+-------------------+----------------+
| Field            | Type        | Null | Key | Default           | Extra          |
+------------------+-------------+------+-----+-------------------+----------------+
| booking_id       | int(11)     | NO   | PRI | NULL              | auto_increment |
| phone_num        | varchar(10) | YES  | MUL | NULL              |                |
| registration_num | varchar(10) | YES  | MUL | NULL              |                |
| source           | varchar(50) | YES  |     | NULL              |                |
| destination      | varchar(10) | YES  |     | NULL              |                |
| distance         | float       | YES  |     | NULL              |                |
| date_time        | timestamp   | NO   |     | CURRENT_TIMESTAMP |                |
| total_fare       | varchar(5)  | YES  |     | NULL              |                |
+------------------+-------------+------+-----+-------------------+----------------+
8 rows in set (0.10 sec)

mysql> desc driver;
+------------------+--------------+------+-----+---------+-------+
| Field            | Type         | Null | Key | Default | Extra |
+------------------+--------------+------+-----+---------+-------+
| driver_name      | varchar(100) | YES  |     | NULL    |       |
| driver_phone_num | varchar(10)  | NO   | PRI | NULL    |       |
| registration_num | varchar(10)  | YES  | MUL | NULL    |       |
+------------------+--------------+------+-----+---------+-------+
3 rows in set (0.06 sec)
```

Database Design


```
mysql> desc user;
+-----------+--------------+------+-----+---------+-------+
| Field     | Type         | Null | Key | Default | Extra |
+-----------+--------------+------+-----+---------+-------+
| name      | varchar(100) | YES  |     | NULL    |       |
| phone_num | varchar(10)  | NO   | PRI | NULL    |       |
| password  | varchar(20)  | YES  |     | NULL    |       |
+-----------+--------------+------+-----+---------+-------+
3 rows in set (0.03 sec)

mysql> desc vehicle;
+------------------+-------------+------+-----+---------+-------+
| Field            | Type        | Null | Key | Default | Extra |
+------------------+-------------+------+-----+---------+-------+
| vehicle_name     | varchar(30) | YES  |     | NULL    |       |
| registration_num | varchar(10) | NO   | PRI | NULL    |       |
| cost_per_km      | int(10)     | YES  |     | NULL    |       |
| status           | varchar(10) | YES  |     | NULL    |       |
+------------------+-------------+------+-----+---------+-------+
```

Tasks to be completed

- Implementing the payment module.
- Implementing Monthly Pooling feature.

Additional features

- Monthly pooling
- Google re-captcha (implemented as of now only on the client side).
- Created a google feedback form and connected it to users profile.

Tools Used

- HTML, CSS, BootStrap, JavaScript - Used to create the view part of the project.
- Servlets, JSP, JDBC, MySQL - Used for database connectivity and validations.
- GoogleMaps API - To create maps and direct the routes.

What we learnt?

- Learnt about Google maps API and also Haversine formula.
- Learnt how to implement Bootstrap.