Used Car Application

This web application provides facilitation of the posting and selling of used cars in local regions. Users are provided with the ability to post and remove their own cars to the site, as well as browse through available cars in their area, and view the individual cars and the contact information of the sellers.

How to Use

To use the application, users must first be authenticated. Users are provided with the option to either login with existing credentials or to create a new account. Creating a new account requires a username, password, email address, city of residence, and phone number. Once logged in, users are presented with options to post a car, remove a car, search cars by city, and view individual cars as well as seller contact info. Finally, users are provided with options to change their account information.

How it Works

The html pages of the application mainly operate using CGI files coded in C++, which queries a set of mySQL tables using the mySQLpp wrapper class storing relevant information. User authentication info is stored in mostyncrUsers, of which the application compares the stored data to user provided data for authentication. User data is stored in mostyncrUserInfo. Username is used as a primary key, so duplicate usernames are not possible. Posting and removing cars is carried out through insert and delete statements, updating the information in mostyncrCars. Searching and viewing cars uses inner join to connect UserInfo data with Car data. Searches are performed using user city info, and viewing cars presents the seller's contact information.

Tables

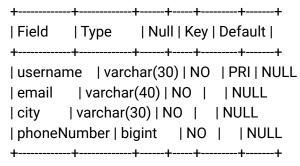
mostyncrUsers

Used for authentication, holds usernames and passwords.

```
+-----+
| Field | Type | Null | Key | Default |
+-----+
| username | varchar(30) | NO | PRI | NULL
| password | varchar(30) | NO | NULL
| has been supported by the support of the support
```

mostyncrUserInfo

Stores information about users. City information is used for searching cars, and contact information (email and phone number) is used when displaying cars.



mostyncrCars

Stores information about posted cars. All relevant information for selling a car is provided, as well as a unique ID number for user searches. Posts are linked to the username of the poster for later linking of tables.

```
+-----+
| Field | Type | Null | Key | Default |
+-----
| username | varchar(30) | NO | | NULL
| make
       |varchar(30) | NO | | NULL
| model | varchar(30) | NO | | NULL
| mileage | int unsigned | NO | NULL
| description | tinytext | NO | NULL
| year
      |year |NO | |NULL
      | int unsigned | NO | NULL
price
           | NO | PRI | NULL | auto_increment |
l id
     l int
+-----
```