

Database

By
Anthony Norwood (an327)

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1. Introduction

For the third iteration of the TaxiCloud Mobile Application, it was necessary to create a new database as the original TaxiCloud database was no longer available.

2. The Database

The decision was made to use the MySQL RDBMS, the same as the original database, and followed the same structure for the schema. MySQL is an open source database available under the GPL license. Having control of the database also allowed greater freedom to alter and manipulate the it to improve performance and efficiency.

There are 12 tables in our database:

- Users
- User_Type
- Driver
- Calendar_Share
- Holiday
- Booking
- Cost
- Company
- Address
- Customer
- Payment Method
- Version

A detailed breakdown of the columns is provided in the form of an EER Diagram in Appendix [Appendix B].

The database was created using the software MySQLWorkbench, available from the MySQL website. It is, like the MySQL database, open source and available for use under a GPL License. It also uses a Graphical User Interface, which allowed the database to be created in a What-You-See-Is-What-You-Get format and reduced the amount of time required writing MySQL queries in order to create the database. It also provided a full creation script that could be entered directly onto the MySQL server to create the database in full. A copy of this script is included in Appendix [Appendix A].

3. Conclusion

A new database has been created, attempting to mimic the old database as closely as possible. This will be used from now on.

4. Revision History

Name	Date	Reason
Anthony Norwood	21/02/15	Document Creation
Christopher Kelly	22/02/15	Proof read, entered document into document template.