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Database Functionality

Database 1: User Information Database on Microsoft Access

For this Database and its accompanying functionalities we used a combination of OleDB and ODBC.

This Database is used to house Employee, Admin, and Customer information and access permissions. Employees and Admin have the ability to look at all the user information, delete and update information. This is on a separate database because we did not want to house the customer accessible data in the same place as sensitive data such as usernames and passwords and potentially, future payment information.

Database 2: Book Information and Library Functionality on MySQL

For this Database and its accompanying functionalities we used MySQL.Data.

This Database contains all the relevant information for the books available through the MBBooks System. The tables included are, Booklist which holds ISBN, Author, Title, Description, Genre, Pages, Price, Publisher, and PublisherLocation information. Other tables include, book\_condition table, which holds keys to books conditions ranging from New to Unacceptable. Book Availability which holds information about the number of specific books available; PriceMap which holds a list of all book prices, adjusted by condition and library which contains all the specific information for a single instance of a book.

This Database is the only database accessible by Customers and the search GUI can only be accessed by users with permissions level of 3, aka Customer.