

## Database Design

I have chosen to work with MySQL because it is customizable, flexible and scalable. MySQL will be able to support any growth Crochet Mode might need while still maintaining an easily customized database system. MySQL is a simple database program that is easy to manage and reliable with support available if needed. As Crochet Mode is focused more on a type of transaction instead of an analytical data operations MySQL seems like a better choice for Crochet Mode than PostgreSQL. Customization is key to a growing company, as Crochet Mode grows there is potential for more aspects to be added into the database. For example, in the future if a store was added there would need to be a purchase table added into the database. MySQL is also commonly used for its security relating to financial transactions, this is important to the growth of Crochet Mode and the addition of a store in the future. As Crochet Mode is developed there could potentially be more aspects that need to be included in the database, which is why the easily customizable option of MySQL is the best choice for the database. I have decided to change my database plan to have a user table and a comment table.

The user table holds a user's information for the login system. The user table will hold values for user ID, username, password, and created at. MySQL will allow the customization of more variables in this table as Crochet Mode expands, such as preferred payment method. When a user decides to sign up as a member they will need to provide a username and password. Once they have entered this information the created variable will add a date/timestamp to the users account under created at. This will allow us to keep track of how long a user has been a member.

The comment table holds the submitted comments information for each comment that is posted. When someone posts a comment they will submit their name and the comment. The table will hold the values for the comment id, page id (so the comment will only show on the page that it was created on), parent id, name, content, and the submit date. Each comment has an id which allows for the reply comment function to be assigned to a specific comment. This allows users or admins to reply to other people's comments. The name and content are the submitted values on the web application page.