

Databases Artifact Enhancement

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Abstract

This details the enhancement process for Database artifact as it relates to the Travel SNHU site. I have implemented a relational MySQL database to house user, destination, and review data.

<https://github.com/dhoopes11/dhoopes11.github.io>

<https://dhoopes11.github.io/>

Databases Artifact Enhancement

Artifact Description

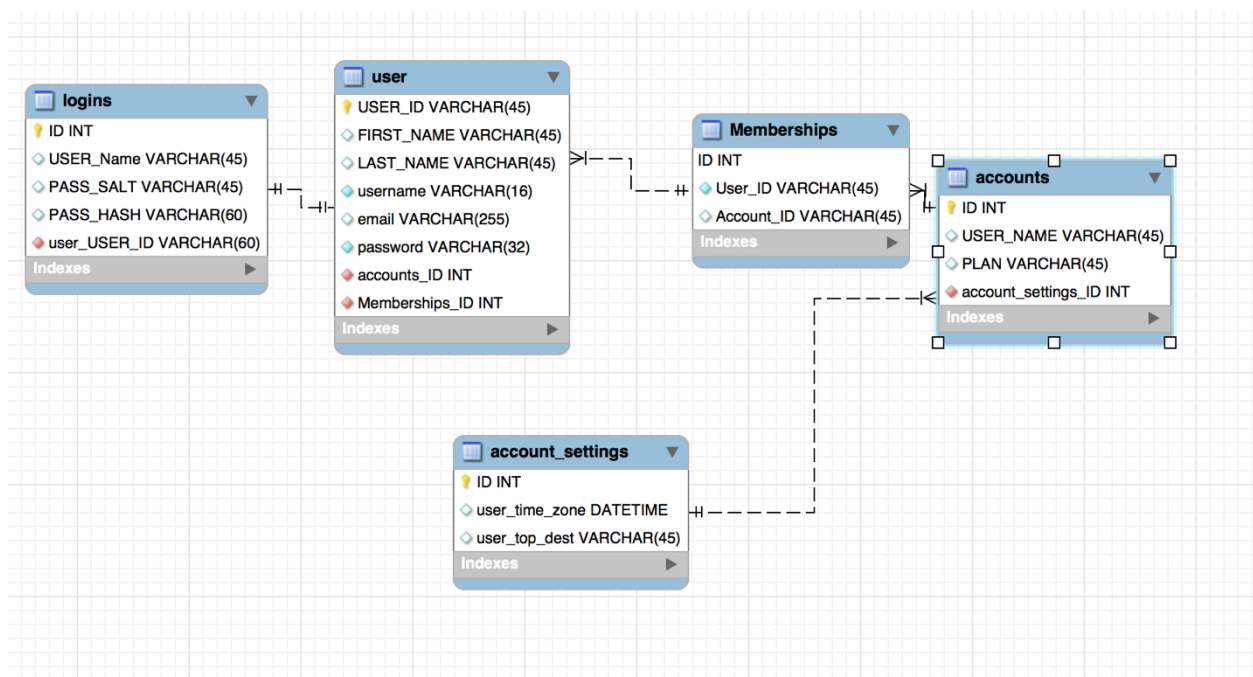
I have chosen to implement the following database architecture to handle user accounts and requests on the Travel SNHU web page. This relational MySQL database can be scaled to many users due to the implementation of USER, LOGINS, ACCOUNTS, MEMBERSHIPS and ACCOUNT_SETTINGS tables. There are a couple of key features in this type of architecture. Firstly, the MEMBERSHIPS table can associate any number of users to an accounts, as well as any number of accounts to a user. This implements the scalability aspects, as well as allows for a system that might in the future require a user to have access to more than just one account. Secondly, the LOGINS table separates the user credential information from the USERS table. This type of system allows access to features without requiring a login. This is valuable as it captures some user information without the user having to setup credentials.

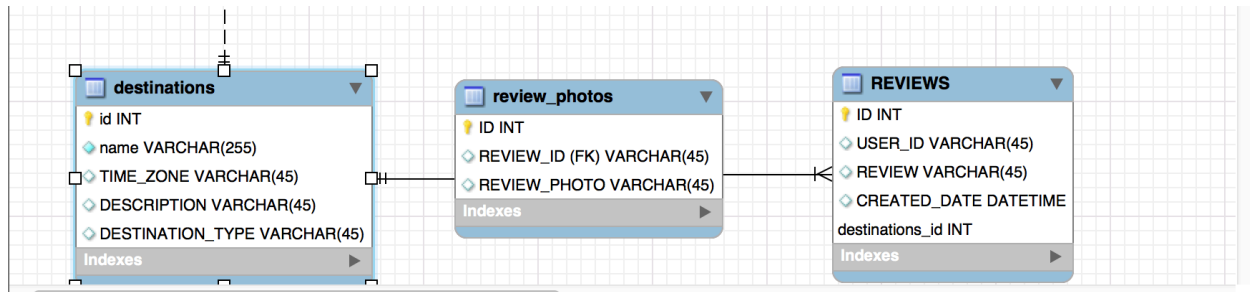
The second “set” of tables includes the DESTINATIONS, REVIEWS, and the REVIEW_PHOTOS tables. These tables will collect and manage the destinations and their descriptions along with the corresponding reviews and applicable photos. These tables are those most important in the schema in relation to the user. The user can manage their favorite destinations from their profile and by implementing a rating system, the site can provide a filtering system for user to search by destination type, and user reviews.

Artifact Inclusion Justification

I selected this artifact because of the inclusion of a user account system in relational database form. Although a NoSQL database such as MongoDB might have worked, for scalability, I believe MySQL is the optimal choice. MySQL is an established database with a large support community and can be used with all major platforms and in most languages. I also chose MySQL because of this type of applications is fairly predictable as far as a pre-defined structure and set schemas.

Planned Enhancements Review





Enhancement Process Reflection

During the enhancement process I was able to add the features into this site in the form of a relational database that would scale up over time and allow user flexibility while still serving the purpose of capturing pieces of information from them. User and data analysis are huge trends right now in CS that allow businesses the unique opportunity to turn information into cash flow.

