DESIGN: DATABASE (WEEK2)

Website: www.uforme.com

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PROJECT OVERVIEW

This project will be a streamline dating application that will allow for improved matches in the dating arena and will be called www.uforme.com.

CHOICE OF DATABASE TECHNOLOGY

Microsoft SQL Server is the database technology of choice, since this site will be highly transactional. MS SQL is a proven technology and highly used in the commercial serve space. Having been first released in 1989, it has 30 years of vetting. In addition, this choice would allow for easy scalable hosting. At first it would start of as a local instance. Once there is a proven growth trend, a cloud location would be the next stage. As a final stage, hosting would be transitioned to Azure or AWS.

RELATIONAL DATABASE DESIGN

The **users** table has a one to one relationship with the **userPreferences** table. Since the user will be able to have multiple partner selection masks which will reside in that table. In addition, there is a one to many relationship between the **users** table and the **matches** and **images** tables. There is also a foreign key relationship between the **matches** table (*userMatchID*) and the **users** table (*userID*).

EXPLANATION OF TABLES

TABLE NAME	PURPOSE
users	This table houses the users personally identifiable data, including their usage. The usage might later be extracted to a log table.
userPreferences	The userPreferences table is where the MASKS are stored in order to find a partner match based on desired attributes. Unlike other match sites, the user is able to have multiple MASKS active at the same time.
images	All user images are stored here and allows the user to manage their own images as well as permit access to view partner images on accepted connections.
matches	The matches table is where are the connections between the user and the partner are maintained.

DATABASE SCHEMA