SA04 Document

## Diagram



**User**
Name
Avatar
Email
Rating
Join Date
Bio
ID

**Location**
Name
Rating
Description
Times
Avatar
Details
ID

Favorite (n — n)

Author (n / 1)

Author (n / 1)

Has (1 / 1)

**Comment**
Words
Date and Time
ID

**Post**
Latest Average Score
ID

IsA (1 / 1)

**Feed**

Has (1)

**Comment Thread**

Has (n)

Has (n / 1)

**Update**
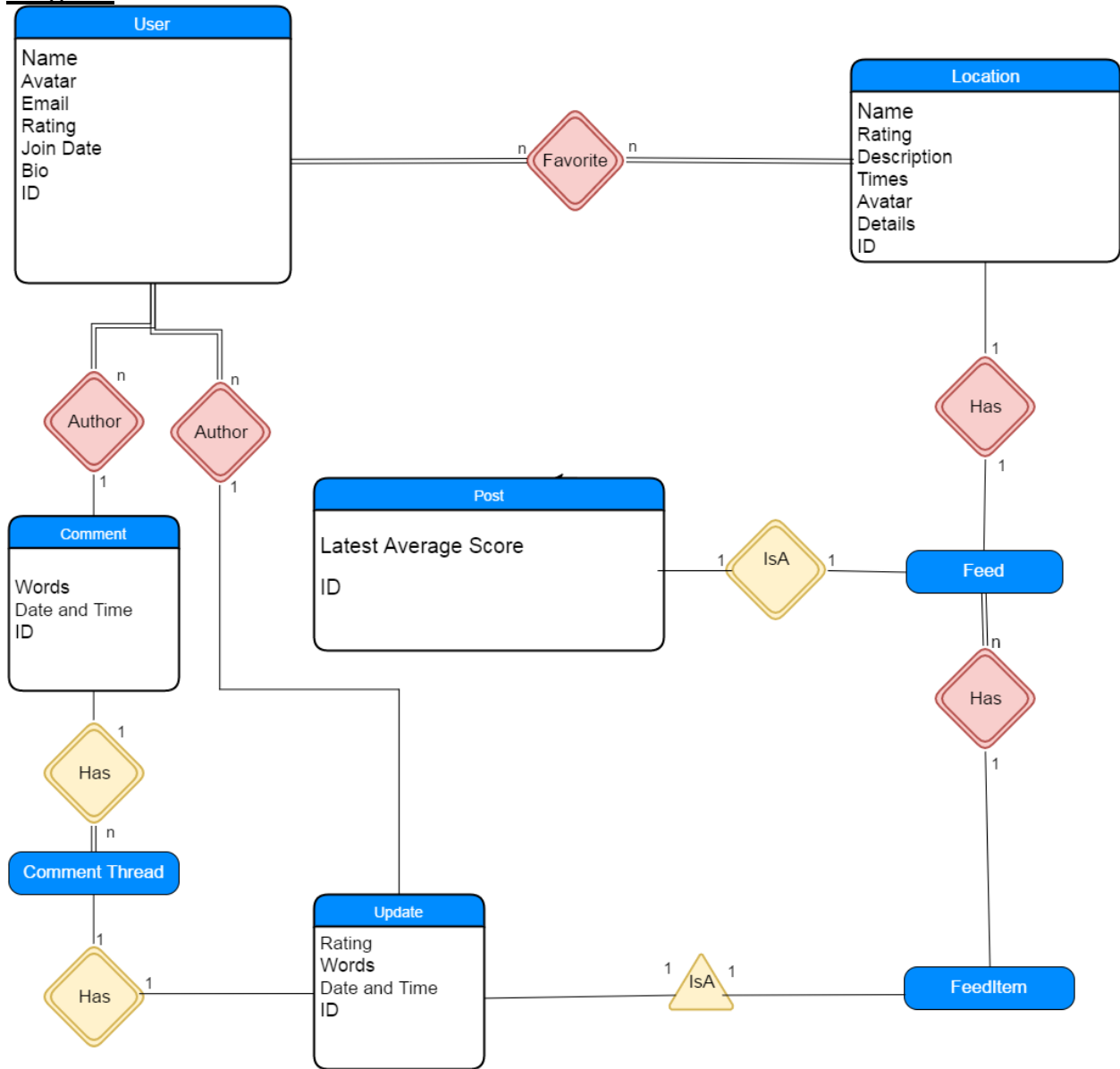Rating
Words
Date and Time
ID

IsA (1 / 1)

**FeedItem**

Has (1 / 1)

## Notation

The notation used in our ER diagram is the same as used in Workshop 4. To clarify, though, a double line from one Entity to another means it must contain the connected entity. For example, a Comment must have an Author that is a User, so there is a double line from Comment to Author. Conversely, a single line is used when the Entity does not need to contain the other entity. For example, a User does not need to Author any Comments, so there is a single line from User to Author.

## Entities

**User**: A User in our database. Each user is its own User entity. Data includes Name, Favorites, Avatar, Email, Rating, Join Date, ID.

**Location**: A unique location in Amherst in our database. Each different location is represented as a separate entity. Locations can be referenced as a favorite by a User. The Location contains a Name, Rating, Description, Avatar, Times, Details, ID, while also having a Feed entity.

**Feed**: A Feed is an entity that is a Post and contains one or more Feed Items. Each Location has one unique Feed.

**Post**: A Post contains information from Location, an Average Score for that Location (calculated with Ratings from Updates) and an ID.

**Feed Item**: A Feed Item is an Entity held by the Feed. It is an Update Entity.

**Update**: An Update contains information submitted by a User for a Location. This includes the information of submission like Words, Author, that links to a User, Date and Time, an ID, as well as the Rating given.

**Comment Thread**: A Comment Thread is held by an Update and each Update can only have one. Each Comment Thread can have multiple Comments.

**Comment**: A Comment is submitted by Users on a Comment Thread. This contains Wordsas well as submission information like Author, that links to a User, Date and Time, and ID.

## Changes

No changes have been made to the application.

## Page/Widget Interaction with Entities

**Search**: The Search Function uses Locations' Details to filter from tags that are input.

**User Profile on Left Sidebar**: The Left Sidebar displays the active User's Avatar, Display Name, Join Date, and Rating.

**Information on Right Sidebar**: The Right Sidebar displays the Name, Avatar, Bio, and most recent Update for multiple Locations.

**Main feed**: The Main feed on most pages displays the Feed for the currently selected Location. This display includes the Post of that Location at the top and the Feed made of multiple Feed Items below.

**Add Update**: This is a window that allows the current User to input data that is stored as an Update.

**Add Comment**: This is a window that allows the current User to input data that is stored as an Comment in the Comment Thread of the selected Update.

**Other User's Profile**: When the Name of a User is selected, there is window pop-up containing information from that User, including Avatar, Join Date, and Bio.