



Our ER diagram notation uses the same notation as the example in the workshop. All double lines are n and all single lines are 1 unless explicitly noted. We use purple to indicate an embedding relationship and green to indicate a referencing relationship.

Entities

User: A unique user of the website that can post events, comment on events, message other users, and customize a feed for themselves.

Original Post: When a user creates a thread, an original post with all necessary information (description, date, time, etc.) is the first thing listed in the thread. All comments are listed in the thread as replies to the OP.

Thread: A thread is the combination of the original post and the replies to that post. As such, those elements are embedded in the thread.

Board: A collection of threads with a common theme (i.e. gaming, sports, movies, and so on).

My Feed: A unique feed that follows the most popular threads in boards that a particular user is subscribed to.

Community Feed: A feed that contains the sites most popular threads.

Reply: A comment that replies to an original post, or a reply to another reply.

Private Conversation: A series of private messages between two individuals. These are used for exchanging sensitive information that is pertinent to a given event.

Messages: A message sent from one user to another.

Subscribed Boards: Boards that a user has decided to subscribe to that will show up in the My Feed area (Right sidebar)

Pinned Threads: A list of threads, each of which the user is monitoring (located on the right sidebar).

Pages/Widgets

Leftside Bar: The left sidebar uses the list of boards that the user is subscribed to. It also uses the list of pinned threads that the user wants to keep track of (This is a recent change, Pinned Posts use to be of the right sidebar). The left side bar will show up on all pages.

Rightside Bar: The right sidebar shows the two different feeds that a user sees, the first is My Feed and the other is Community Feed. The feeds contain links to threads. The right side bar will show up on all pages.

UBoard Main Page: The main page uses all the Board entities because all boards are listed on the front page.

Board: The board page shows the original posts of all the threads in that category. When a user clicks on an original post, the entire thread is loaded.

Thread: Uses the original post and reply entities. The original post is displayed at the top, and comments are shown below.

Create Post: After creating a post, it will be posted to all of the specified board(s) and become a thread on that/those board(s).

Settings: The settings page will use the attributes of a user to generate the settings displayed on the page. When a setting is changed the user's data will be updated to reflect the changes.

Private Message: The private message page will use the private conversations that a user has. It will display the messages from a private conversation and allow users to add messages to private conversations that they are a part of. It will also allow them to add and delete private conversations.

Search: The search page will return previews of threads that fulfill the query. When clicked on will bring the user to the thread.