

This system is basically a sticky note application. I wanted to create something slightly different than the normal note taking application that everyone else would make, So this uses much smaller notes, that are in-line editable and that each have titles. There's a save button on each note, which needs to be pressed in order for the database to be updated. There is also a delete button which removes both the physical note and the note as represented in the database. Each note also has a + button which creates a new note. This note is created on top of the existing note slightly below and to the side. Each note can also be dragged, and it will be brought to the top of all other notes. I am also using an Ajax call that will save the x and y coordinate of where the note was last dropped.

One of the design concepts necessary to consider is how I would create the relationship between users and posts. I could have either created a many to many relationship between them, or a :post belongs to :user / :user has\_many :posts.

Now I chose not to do the many to many relationship. Because I felt that each post should only "belong" to one user. In a real world situation generally posts won't ever belong to more than one person, but there is no limit to the number of posts a person can own. Now while it is true that when talking about posts on-line there could be a collaboration, but because of the future plans on how to implement these collaborations, I felt it would be best to stick with the posts: belonging to users relationship, and then when the time comes I will create a new model a "collaboration" which every post has\_one\_ collaboration, but every collaboration has many users and vice versa, this way the connection between users and posts they are collaborated on are separate between users that create and "own" a post. This will make it easier to have separate rights given. Owners can create and destroy a post, but a collaborate may be given read and write privileges only, without being able to completely destroy a post.

Each note has a :name, :title, :content, :lastX, :lastY entry in the database. The title and content are obvious, and right now every note has one. :name was created for future uses in mind when a user has to "own" a post. And name would be filled with the name of the owner. LastX, and LastY represent the x and y coord of the top most corner of the note. They are not currently being used because of time constraints, but their purpose is that when a user drags and drops a note, the position of the note will be saved so on return they will be placed there again. Also would be used when a new note is created it will be placed on top of and slightly to the left and down of the note that was clicked on.