

Phase 1 ER Diagram Document:

Assumptions:

1. All users must be able to be found in a search/profile view (assuming that user is a friend or a friend of a friend)
2. A user can't send a message to themselves
3. A message author is the sender

Note:

We used the ERDPlus online tool, so arrow direction/function is based on that schema
Education details and Work Experience can be multivalued

Additions not made but were considered:

1. Make the **Connection** entity have an **ISA** relationship with User - We decided against this for simplicity as we didn't see a practical use for this change.
2. Add **Receive** relationships between **User** and **Message** as well as between **User** and **Connection** in a similar manner to existing **Send** and **Delete** relationships - We decided to refrain from adding this relationship as we believed that receiving a message or connection can be made implicit. Additionally, the online ERDPlus tool didn't allow our **User** entity to have any more relationships. In actual sql design, we acknowledge that **Users** must have a means to receive connections and messages.

ER Diagram:

