Database Tables Needed:

* User Table

- contains a list of user information:

* + - id (unique identifier for each user; long)
  + - password (used for login; varchar(255))
  + - active (is the user active or not; boolean)
  + - email (used for login; varchar(255))
  + - name (name of the user; varchar(255))
  + - username (username for the user; varchar(255))
  + - role id (foreign key to roles table; long)
* Posts Table

- contains each posts information including:

* + - author id (foreign key to the user table storing the author of the post; long)
  + - class (foreign key to the class table; long)
  + - text (contains the body of the text for the note; varchar(255))
  + - image (information on the image(if included); jpg)
  + - rating (average post rating from 1 to 5; float)
  + - id (the post’s unique identifier in the database; long)
  + - endorsement information (if a professor believes the notes are adequate or should be used as an example; boolean)
* Comments Tables

- contains a set of comments for the associated posts this information includes:

* + - post id (used to link tables; long)
  + - comment text information (the actual comment; varchar(255))
  + - author (foreign key to the user table; long)
* Roles Table

- contains possible roles for a user to have

* + -id (unique identifier for each role; long)
  + -role name (the String name for each role; varchar(255))
* Class Table

- contains all created classes and professors associated with them

* + - id (unique identifier for the database; long)
  + - class number (the number for the class; integer)
  + - department (the department for the class; varchar(255))
  + - professor id (foreign key to the user table, only professors; long)