# Overall Project View

1. Users
   1. Roles
      1. User
      2. Moderator
      3. Admin
   2. Sign Up
      1. Required Information
         1. Email
         2. Username
         3. Password
         4. Phone number
         5. DOB
         6. Name
         7. Description
         8. Country
         9. Profile Picture
      2. Email Verification
   3. Sign In
      1. Username / Email / Phone Number + password
      2. Forgot Password (Email to reset)
   4. Posted Tweets
   5. Liked tweets
   6. Re-Tweets
   7. Comments
   8. Followers
   9. Following
2. Tweet
   1. Text (max 250 characters)
   2. Like
   3. Comments
   4. Re-Tweets
   5. Owner
   6. Date posted

## Phase 1: Building the Tweet

* Operations
  + Create: Add tweet to database with
    - Text (max 250 chars)
    - Date created
  + Update: For phase 1 you can’t edit a tweet / change date posted
  + Delete
  + Read
    - Pagination
    - Get All
    - Filters
      * Search for text
      * Date range

## Phase 2: building the User

* Operations
  + Create:
    - Input Fields
      * Name
      * Username (Unique)
      * Email (Unique)
      * Phone (Unique)
      * Password
      * DOB
      * Country
      * Profile Picture (Not Required)
      * Description (Not Required)
    - Additional Fields
      * Created At
      * Enabled
  + Update
  + Delete
  + Read
    - Pagination
    - Filters
      * Search (username / email / name) --PENDING

## Phase 3: Link Comment and Tweet and User

* User can have many comments. A comment can be linked to one user
  + Comment Class:
    - Id, text, timestamp, linked user
    - Create , delete, read specific comment related to a tweet.
* A tweet can have a list of comments. A comment can be linked to only one tweet

## Phase 4: Link User and Tweet and other Users

* A user can have many tweets. A tweet can be linked with only one user
* A user can have many followers. A follower can follow many users