Web Based Information Systems Development (2022) Project Specifications

Types of Users
- Normal User will be referred to as "User"
- Admin User
- Additional types of users are also allowed

User Roles
- Normal users can be added by signing up or by an "Admin"
- Admins are "Users" with elevated privileges
- Admins can only be added by other "Admin"
- Admin can upgrade a "User" into "Admin"
- Admin can suspend "Users"

Registration / login scenarios
- Registration is done for "Users"
  - Regular info is required to complete the registration process (including email address)
  - Email address is unique for each user
  - After registration the "User" account status is "not activated" and an email message is sent to the user to activate his account (activation link)
  - After activation the user can login as normal using the username/password
- The login process is the same for both "User and Admin"
  - After the login process the logged in "User or Admin" is redirected to the corresponding landing page according to the user role
- Forgetting password capabilities must be provided for all user types
  - The user can use the "forgot password" process, the system will send an email message to the user corresponding email including the username/password
- Suspended users can't login and a message must be provided "your account is suspended contact the system admin"
  - This can change after an admin unsuspend the user account

General Requirements:

- A landing pages (for visitors – not logged in)
- A landing page for users and for admins (could be the same as the above with appropriate customization)
- Signup / login / forgot password capabilities
- Create a Web page that includes various types of hyperlinks.
- Create a Web page that includes various multimedia objects.
- Put an advertisement in your web information system.
- At least five input forms (add / update / delete) not including (Signup / login / forgot password)
- At least four reports [at least one of each of the following]
    - Classic Report
    - Ranking Report
    - Pivot Tables Report
    - Interactive Report
- At least three graphs (pie chart / bar chart …etc.)
- Every user must have a profile (can update the info including a personal photo "with the ability to upload and change")
- Every input form control must be implement the appropriate validation
    - Required fields validation
    - Correct format validation
    - Range validation
    - Regular expression validation
    - Compare validation
    - Confirmation fields validation
    - Validation feedback
    - Custom validation
- Do masking for some of the data inputs relevant to your system.
- All pages must be secured by means of "sessions" meaning
    - Visitors can only view (landing page / signup / login / forgot password page)
    - Users can only view their profile and the appropriate pages
    - Admins can view all pages including the (Users control page)
- The database schema must include at least five tables connected by means of foreign keys (no orphan / unconnected tables)
- (You should do complex queries including joins) and generate reports containing the results of the queries.)