Activity Diagram for Registration Page

- Start
- User Opens Registration Page
- Enter First Name / Last name / Birth_Date / Email / Username / Password
- Click Register Button
- Enter username Again
- Check for Username is Existing?
  - Yes → show error message "username is already exists in the system, try another one"
  - No → Is Password Strong?
- Enter Password Again
- show error message "Password is weak"
- Is Password Strong?
  - No → show error message "Password is weak"
  - Yes → Is Email Format Valid?
- Enter Email Again
- Is Email Format Valid?
  - No → show error message "Wrong Email Format"
  - Yes → Is Email Verified?
- Is Email Verified?
  - No → show error messag "Email Already Exsits"
  - Yes → Redirect to login page

Sequence diagram:

- User
- Register System
- Auth System
- Database System

- Enter user data's registration / Click Register Button
- QueryUser(username)
- **Alt** [User Not exists]
  - Return User Record Not exists
  - **Alt** [Password is weak]
    - weak
    - IsPasswordStrong(password)
    - Password is weak
    - [Password is strong]
    - strong
    - Valid Password
  - Encrypt password(password)
  - save the hashed password
  - **Alt** [Email is invalid]
    - invalid
    - IsEmailValid(email)
    - Email format is wrong
    - [Email is valid]
    - valid
    - Valid Email
  - User Inserted Successfully
  - Insertion Successfully
  - Insert User Record
  - User inserted successfully
  - Redirect to Login Page
  - Successful Registration
- [User exists]
  - username already exists
  - Insertion Failed
  - Return User Exists