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Project Title: Manual Testing with a Test Case

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Example of equivalence class partitioning, scenario involving a user registration form for a social media platform.

Input Parameters:

1. **Username:** The chosen username for the user's profile.
2. **Email Address:** The email address provided during registration.
3. **Password:** The chosen password for the user's account.
4. **Date of Birth:** The user's date of birth.

Equivalence Classes:

1. **Username:**
 - **Valid Usernames:** Equivalence class for valid usernames, e.g., "JohnDoe," "Alice123."
 - **Empty Username:** When the user doesn't enter a username.
 - **Invalid Usernames:** Usernames with special characters, spaces, or reserved words.
2. **Email Address:**
 - **Valid Email Addresses:** Equivalence class for properly formatted email addresses, e.g., "user@example.com," "johndoe123@gmail.com."
 - **Empty Email Address:** When the user doesn't enter an email address.
 - **Invalid Email Addresses:** Email addresses without the "@" symbol, with multiple "@" symbols, or with invalid characters.
3. **Password:**
 - **Valid Passwords:** Equivalence class for strong and valid passwords, e.g., "P@ssw0rd," "Secret123#."
 - **Empty Password:** When the user doesn't enter a password.
 - **Invalid Passwords:** Weak passwords, e.g., "password," and passwords with invalid characters.
4. **Date of Birth:**
 - **Valid Dates of Birth:** Equivalence class for valid birthdates, ensuring users meet the minimum age requirement.
 - **Empty Date of Birth:** When the user doesn't provide a date of birth.
 - **Invalid Dates of Birth:** Dates of birth that make the user underage or are not properly formatted.

Test Cases:

For each of the equivalence classes, you can define specific test cases:

1. Username:

- Valid Usernames:
 - Test with a common username like "JohnSmith."
 - Test with a username containing numbers like "User123."
- Empty Username: Test with no username provided.
- Invalid Usernames:
 - Test with a username containing special characters.
 - Test with a username that is a reserved word like "admin."

2. Email Address:

- Valid Email Addresses:
 - Test with a standard email address, e.g., "user@example.com."
 - Test with a common provider, e.g., "johndoe@gmail.com."
- Empty Email Address: Test with no email address provided.
- Invalid Email Addresses:
 - Test with an email address missing the "@" symbol.
 - Test with an email address containing spaces.

3. Password:

- Valid Passwords:
 - Test with a strong password containing special characters and numbers.
 - Test with a longer password, e.g., "VerySecurePassword123#."
- Empty Password: Test with no password provided.
- Invalid Passwords:
 - Test with a weak password like "password123."
 - Test with a password containing special characters not allowed

4. **Date of Birth:**

- Valid Dates of Birth:
 - Test with a valid date of birth for a user who meets the minimum age requirement.
 - Test with an older user's date of birth.
- Empty Date of Birth: Test with no date of birth provided.
- Invalid Dates of Birth:
 - Test with an underage user's date of birth.
 - Test with an improperly formatted date, e.g., "2023-10-27."