Equivalence Class

1. Input Field: Email Address

Class ID	Description	Type	Expected Result
E1	Valid email format ending in @dau.ac.in	Valid	Accepted
E2	Email with uppercase (e.g., User@DAU.ac.in)	Valid	Accepted
E3	Email missing @ or domain	Invalid	Rejected ("Invalid format")
E4	Valid format but wrong domain	Invalid	Rejected ("Must end with @dau.ac.in")
E5	Email already registered in system	Invalid	Rejected ("Account already exists")
E6	Empty field	Invalid	Rejected

2. Input Field: Password

Class ID	Description	Type	Expected Result
P1	Meets all complexity requirements (8+ chars)	Valid	Accepted
P2	Less than 8 characters	Invalid	Rejected
P3	Uppercase letter Missing	Invalid	Rejected
P4	Missing Lowercase letter	Invalid	Rejected
P5	Missing Digit	Invalid	Rejected
P6	Missing Special Character	Invalid	Rejected

3. Input Field: Committee Name

Class ID	Description	Type	Expected Result
C1	Exact match from allowed list (e.g., "Canteen")	Valid	Accepted
C2	Case-insensitive match (e.g., "cAnTeEn")	Valid	Accepted (Fuzzy match)
C3	Substring match (e.g., "Tech" for "Technical")	Valid	Accepted (Fuzzy match)
C4	Name not in allowed list (e.g., "Gaming")	Invalid	Rejected

Test cases

1. Create a Student Account

Test Case ID	Test Scenario	Input Data	Equivalence Class	Expected Result
TC-01	Verify Valid Student Creation	Name: Rahul Sharma Email: tirth@dau.ac.in Password: tIRth@123	EC-E1, EC-P1	Accepted Message: "Student account created successfully."
TC-02	Verify Email Case Normalization	Name: Tilak Verma Email: Tilak@DAU.AC.IN Pass : Abcd@2341	EC-E2, EC-P1	Accepted Tilak@dau.ac.in.

TC-03	Verify Invalid Email Format	Name: Test User Email: user.com (Missing @) Password: Pass@1234	EC-E3, EC-P1	Rejected Error: "Invalid format."
TC-04	Verify Invalid Domain	**Name: Test User** Email: user@gmail.com Password: Abcs@1234	EC-E4, EC-P1	Rejected Error: "Email must end with @dau.ac.in."
TC-05	Verify Duplicate Email	Name: Duplicate User tirth@dau.ac.in Passss@1234	EC-E5, EC-P1	Rejected Error: "Account already exists."
TC-06	Verify Empty Email	Name: No Email User Email: [Empty]	EC-E6, EC-P1	Rejected

		Password: Pass@1234		Error: "Please provide an email."
TC-07	Verify Short Password	Name: Weak Pass Email: weak@dau.ac.in Password: Ab1@ (4 chars)	EC-E1, EC-P2	Rejected Error: "Password not strong enough."
TC-08	Verify Password Missing Uppercase	Name: Lower Case Email: lower@dau.ac.ine Password: pass@1234	EC-E1, EC-P3	Rejected Error: "Password must include uppercase letter."

TC-09	Verify Password Missing Lowercase	Name: TIRTH Email: TIRTH@dau.ac.in Password: PASS@1234	EC-E1, EC-P4	Rejected Error: "Password must include lowercase letter."
TC-10	Verify Password Missing Digit	Name: No Digit Email: nodigit@dau.ac.in Password: Password!	EC-E1, EC-P5	Rejected Error: "Password must include a number."
TC-11	Verify Password Missing Special Char	Name: No Special Email: nospecial@dau.ac.in Password: Password123	EC-E1, EC-P6	Rejected Error: "Password must include special character."

2.Create Committee Account

Test Case ID	Test Scenario	Input Data	Equivalence Class	Expected Result
TC-12	Verify Valid Committee (Exact)	Name: "Canteen" Email: canteen@dau.ac.in Password: Food@1234	EC-C1, EC-E1, EC-P1	Accepted Role set to 'committee'.
TC-13	Verify Committee Fuzzy Match (Case)	Name: "cAnTeEn" Email: food@dau.ac.in Password: Food@1234	EC-C2, EC-E1, EC-P1	Accepted System identifies "Canteen".

TC-14	Verify Committee Fuzzy Match (Substring)	Name: "Tech" Email: tech@dau.ac.in Password: Tech@1234	EC-C3, EC-E1, EC-P1	Accepted.
TC-15	Verify Invalid Committee Name	Name: "Gaming Club" Email: game@dau.ac.in Password: Game@1234	EC-C4, EC-E1, EC-P1	Rejected Error: "Invalid committee type."

3.DELETE ACCOUNT (COMMITTEE / STUDENT)

Test Case ID	Test Scenario	Input Data	Equivalence Class	Expected Result
TC-16	Delete Existing Student	Target Email: TIRTH@dau.ac.in Selected Role: Student	D1	Accepted Message: "User deleted successfully."
TC-17	Delete Existing Committee	Target Email: canteen@dau.ac.in Selected Role: Committee	D2	Accepted Message: "User deleted successfully."
TC-18	Delete Non-Existent User	Target Email: ghost@dau.ac.in Selected Role: Student	D3	Rejected Error: "User not found."

TC-19	Attempt to Delete Admin	Target Email: admin@dau.ac.in Selected Role: Admin	D4	Rejected Error: "Cannot delete admin accounts."
TC-20	Attempt Self-Deletion	Target Email: [Current User Email] Selected Role: Admin	D5	Rejected Error: "Cannot delete my own account."
TC-21	Verify Role Mismatch	Target Email: Tirth@dau.ac.in (Student) Selected Role: Committee	D6	Rejected Error: "Role mismatch."