

Thomas Bowen - Unit Tests

The module and the functional testing:

In the sign up module: The function of creating an account

Inputs: Name: String , Email: String , Username: String , Password: String,
Password Confirmation: String, Age: boolean, Terms & Conditions: boolean.

Forming equivalence classes:

Equ. Class	Description	Possible Values
EC _{P, empty}	No password provided	""
EC _{PC, empty}	Password not confirmed	""
EC _{E, Empty}	No email provided	""
EC _T	Term and services not accepted	true/false
EC _{E, (contains @)}	Must be a valid email	"test@ucsc.edu"
EC _{P<6}	Password is less than 6 characters	ASCII characters
EC _{P, PC, Match}	Passwords must match	ASCII characters

Derive test cases (for valid inputs):

Equ. Class	Input							Expected Output
	Name	Email	User Name	Terms and Services	Password	Password Confirmation	Age	
EC _{P, empty} , EC _{PC, empty} , EC _{P<6} , EC _{E, empty} , EC _{E, (contains @)} , EC _T , EC _{P, PC, Match}	""	"test@ucsc.edu"	""	True	"123456"	"123456"	true	Password = "123456" Password Confirmation = "123456" Terms and Services = true Name = "" Email = "test@ucsc.edu" UserName = "" Age = true

Derive test cases (for invalid inputs):

Equ. Class	Input							Expected Output
	Name	Email	User Name	Terms and Services	Password	Password Confirmation	Age	
EC _T	""	"test@ucsc.edu"	""	false	"123456"	"123456"	true	ERROR
EC _{P, PC, Match}	""	"test@ucsc.edu"	""	true	"123456"	123123"	true	ERROR
EC _{E, (contains @)}	""	"test"	""	true	"123456"	"123456"	true	ERROR
EC _{E, empty}	""	""	""	true	"123456"	"123456"	true	ERROR
EC _{P<6}	""	"test@ucsc.edu"	""	true	"123"	"123"	true	ERROR

[illegible]