In this verification test plan, we will be conducting brute force unit testing for account login security and two-factor authentication (2FA). For the account login security, we will use 5 test cases that will test different scenarios of valid and invalid credentials to ensure comprehensive functionality. However, only correct input fields for username and password should trigger the 2FA feature. The second feature will implement 6 test cases to evaluate the three verification options that are available to account holders: call, text, and email. For the call input, clients will need to physically press the requested digit by the operator on their keypad; for text input, clients will enter a passcode provided via text; for email input clients will respond to a yes or no prompt in the email. A successful response will grant access to the client BeAvis Car Rental System account.

Unit 1 Test	Unit 2 Test

Feature: Client Account Login Security
 	
  • Two-Factor Authentication
 	
Login Test 1:
 	
    Login Inputs:
    Username = "Client01"
    Password = "0001"
    Output:
    Two-Factor Authentication
 	
Login Test 2:
 	
    Login Inputs:
    Username = "Client01"
    Password = "2222"
    Output:
    "Incorrect Password/Username"
 	
Login Test 3:
 	
    Login Inputs:
    Username = "Client02"
    Password = "0001"
    Output:
    "Incorrect Password/Username"
 	
Login Test 4:
 	
    Login Inputs:
    Username = "Client02"
    Password = "2222"
    Output:
    "Does Not Exist"
 	
Login Test 5:
 	
    Login Inputs:
    Username = " "
    Password = " "
    Output:
    "Does Not Exist"
	Feature: Two-Factor Authentication
	  • Call Factor
	  • Text Factor
	  • Email Factor
	
	Call 2FA Test 1:
	
	    Call Factor Inputs:
	    Digit Verification = "7"
	    Call Output:
	    Account Access granted
	
	Call 2FA Test 2:
	
	    Call Factor Inputs:
	    Digit Verification = "2"
	    Call Factor Output:
	    Account Access Denied
	
	Text 2FA Test 3:
	
	    Text Factor Inputs:
	    Text Verification = "2222"
	    Text Factor Output:
	    Account Access Granted
	
	Text 2FA Test 4:
	
	    Text Factor Inputs:
	    Text Verification = "1111"
	    Text Factor Output:
	    Account Access Denied
	
	Email 2FA Test 5:
	
	    Email Factor Inputs:
	    Email Verification = "yes"
	    Email Factor Output:
	    Account Access Granted
	
	Email 2FA Test 6:
	
	    Email Factor Inputs:
	    Email Verification = "no"
	    Email Factor Output:
	    Account Access Denied