Test Code Document – Password Validation Logic

# 1. Overview

This document specifies the test code logic for validating password requirements, including:  
- Minimum 8 characters  
- At least one number

New Requirement from the client  
- At least one special character

# 2. Test Code (Python)

import re

def is\_valid\_password(password):

if len(password) < 8:

return False, 'Password must be at least 8 characters long.'

if not re.search(r'\d', password):

return False, 'Password must include at least one number.'

if not re.search(r'[!@#$%^&\*(),.?":{}|<>]', password):

return False, 'Password must include at least one special character.'

return True, 'Password is valid.'

# Example Test Cases

test\_passwords = ['abc123', 'abc12345', 'abc123@', 'mypassword1', 'Pass123!', '12345678', 'MyPass@']

for pwd in test\_passwords:

valid, message = is\_valid\_password(pwd)

print(f'Password: {pwd} - {message}')