Here is the test code document for password validation including the overview, requirements, Python test code, and example test cases:

# Test Cases for Password Validation

## Overview

This document covers test cases to validate password rules including minimum length of 8 characters, at least one numeric digit, and at least one special character.

## Requirements

- Password must be at least 8 characters long

- Password must contain at least one numeric digit

- Password must contain at least one special character

## Python Test Code

```python

import re

def validate\_password(password):

if len(password) < 8:

return False

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

return False

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

return False

return True

print(validate\_password("abc1$")) # True

print(validate\_password("abcd1234")) # False

print(validate\_password("abcd@xyz")) # False

print(validate\_password("abc1@def")) # True

```

## Example Test Cases

\*\*Test Case 1\*\*

Description: Password with less than 8 characters

Input: abc1$

Expected Result: False

\*\*Test Case 2\*\*

Description: Password with 8 characters but no number

Input: abcd@xyz

Expected Result: False

\*\*Test Case 3\*\*

Description: Password with number but no special character

Input: abcd1234

Expected Result: False

\*\*Test Case 4\*\*

Description: Valid password with 8 characters, number, and special character

Input: abc1@def

Expected Result: True

## Additional Test Cases

\*\*Test Case 5\*\*

Description: Valid password with more than 8 characters, number, and special character

Input: MyPass123!

Expected Result: True

\*\*Test Case 6\*\*

Description: Password with spaces

Input: abcd 1234

Expected Result: False

\*\*Test Case 7\*\*

Description: Password with allowed special characters

Input: abcd!@#$

Expected Result: True