# Password Generator

# Test Plan

## **Integration Test Plan**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **Description** | **Pre-Condition** | **Expected input** | **Expected Output** | **Actual output** |
| I01\_H01 | To create a GUI | Include required libraries | Choose GUI based on requirements | GUI is created | GUI is created |
| I02\_H02 | To generate Password | Strength and length of password are chosen | Strength and length of password | Random password is generated | Random password is generated |
| I03\_H03 | To facilitate selection of password pattern | Required pattern is specified | Minimum alphabets, special characters and number are given | Password is generated as specified | Password is generated as specified |

Table no.3. Integration test plan

## **Unit test Plan**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **Description** | **Pre-Condition** | **Expected input** | **Expected Output** | **Actual output** |
| U01\_L01 | To facilitate choosing password length | Password length is given | Length is given | Password as per given length is generated | Password as per given length is generated |
| U02\_L02 | To display password strength based on length | Password length is given | Length = 8 | Display “Very weak” with back ground color | Display “Very weak” with back ground color |
| U03\_L02 | To display password strength based on length | Password length is given | Length = 10 | Display “weak” with back ground color | Display “weak” with back ground color |
| U04\_L02 | To display password strength based on length | Password length is given | Length = 12 | Display “Decent” with back ground color | Display “Decent” with back ground color |
| U05\_L02 | To display password strength based on length | Password length is given | Length = 14 | Display “Good” with back ground color | Display “Good” with back ground color |
| U06\_L02 | To display password strength based on length | Password length is given | Length = 16 | Display “Strong” with back ground color | Display “Strong” with back ground color |
| U07\_L02 | To display password strength based on length | Password length is given | Length = 18 | Display “Very Strong” with back ground color | Display “Very Strong” with back ground color |
| U08\_L02 | To display password strength based on length | Password length is given | Length > 18 | Display “Excellent” with back ground color | Display “Excellent” with back ground color |
| U09\_L03 | To enable an option for selecting password pattern | Password generating file is included | Give the pattern required | Should generate password as per the given pattern | Should generate password as per the given pattern |
| U10\_L04 | To display Random generated password | GUI created | Length is given | Display password and strength in GUI | Display password and strength in GUI |
| U11\_L05 | To copy and paste text to and from the clipboard to your computer | GUI created | Length is given | Automatically copy generated password to clipboard | Automatically copy generated password to clipboard |
| U12\_L06 | To provide default length and strength | Password generating file is included | Default values are specified | Generate password as per default values | Generate password as per default values |

Table no.4. Unit test plan