**TEST PLAN – PASSWORD GENERATOR**

1. **Test objective:**

The purpose of this document is to create an application test plan for a password generator.

The purpose of testing this program is to check the correct operations that automatically generate a password.

1. **Scope of Testing:**
2. Within the scope: Features to be tested
3. Out of scope: Features not to be tested
4. **Test Strategy**

Static testing

By accessing the source code- White box testing

By launching the code- Dynamic testing

By accessing requirements- Black box testing

1. **Levels of testing:**   
   1)Unit testing   
   2)Integration testing   
   3)Security testing   
   4)System integration testing   
   5)User acceptance testing

b) **Types of testing:**

1)Functional testing

2)Nonfunctional testing: Stress, performance.

According to the requirements:

Positive

Negative

By degree of preparedness-intuitive testing (ad hoc testing)

1. **Test Design technique:**

The test report was compiled and approved by the team lead and Scholars.

Black box technique: ECP and BVA.   
White box technique: Statement coverage, branch coverage. 

1. **Configuration management tool:**  
   GitHub.
2. **Terminology:**

Password Generator.

1. **Area planned for Automation:**

1. **List of automation tools:**

Selenium.

1. **Exit and Entry Criteria**   
   Approved requirements by stakeholders(baseline) and started preparation of test plan.
2. Test Deliverables   
   Test plan, Test cases, Test report, Test tasks

Writing a test plan   
Writing test cases   
Development of criteria for the success of testing   
Creating test reports.

1. **Roles and Responsibilities**
2. **Risks and Mitigation:**
3. Risks and contingency:
4. **Schedule**
5. **Hiring and Training**

To perform the tasks, you need to have the following knowledge and skills:

Then the persons will eligible to this field of testing.   
 Knowledge and practical application of the IEEE-829 standard;   
Knowledge and ability to apply in practice the basic techniques of test design   
Knowledge of various types of testing including functional and non-functional.

1. **Test Environment:**

It should support all the browsers like chrome, edge, google, etc.   
Production environment.   
Development environment.   
Testing environment.

1. **Assumption:**   
   If there is an addition of new features to the Password generator then there will be a getting an error or bug.

Approval Information:

Test plan by           - Customer or Test manager.   
Test case was written by    -       Test lead and test engineer.   
Test case verified by         -   Test Engineer/Test Lead/Test Customer.   
Test case approved by     - Test manager/Test lead/Test Customer.

1. **Test metrics:(**measurements)

All types of metrics like defect metrics, and how much line of code should be measured. 