**Test Plan Outline**

**for**

**Machine Learning in Diabetes**

Version 1.0

Prepared by

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# **TEST PLAN OUTLINE (IEEE 829 FORMAT)**

# Vidith Somanna

Version 1.0

1. Test Plan Identifier

* To check the percentage of Diabetes, blood pressure glucose level in blood and GUI (Graphical users’ interface) is required

1. References

* SRS (software requirement specification) document

1. Introduction

* A model is created to check if a person has Diabetes

1. Test Items

-Is\_Diabetes

- GUI (Graphical users’ interface)

1. Software Risk Issues

-N/A

1. Features to be Tested

-Is\_Diabetes and GUI

1. Features not to be Tested
2. -N/A
3. Approach

* To check the functionality through GUI (Graphical users’ interface) by entering the bloop pressure and glucose level to get the required output

1. Item Pass/Fail Criteria

* To input and check if all the functionality is working and the desired output is given

1. Suspension Criteria and Resumption Requirements

* to suspend if Is\_Diabetes method is not working up to the requirements

1. Test Deliverables

* System test plan, cases, scripts, automation, execution, summary report

1. Remaining Test Tasks

-N/A

1. Environmental Needs

-N/A

1. Staffing and Training Needs

* 2 people required to test the product

1. Responsibilities

* Report to be given about the process of the product

1. Schedule

* Start date of testing is 07-06-2023 to 12-06-2023

1. Planning Risks and Contingencies

* An engineer may not come on a specific day
* The machine used for testing is not working or not yet arrived

1. Approvals

-given by product manager if the product functionality is working without any error

1. Glossary

-SRS (software requirement specification)

**Test cases**

T\_diabetes\_1 =Take 40 as glucose and 50 as blood pressure as input and calculated output required is 0 else it is fail (Negative test case)

T\_diabetes\_2 =Take 40 as glucose and 200 as blood pressure as input and calculated output required is 0 else it is fail (Negative test case)

T\_diabetes\_3 =Take 20 as glucose and -10 as blood pressure as input and calculated output required is 0 else it is fail (Negative test case)

T\_diabetes\_4 =Take 40 as glucose and 50 as blood pressure as input and calculated output required is 1 else it is fail

T\_diabetes\_5= Take 45 as glucose and 92 as blood pressure as input and calculated output required is 0 else it is fail

T\_diabetes\_6= Take 58 as glucose and 68 as blood pressure as input and calculated output required is 1else it is failed