Test Plan

for

Machine Learning in Diabetes

Version 1.0

Prepared by

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1) **Test Plan Identifier**

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

2)  **References**

* SRS (software requirement specification) document

3) **Introduction**

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

4) **Test Items**

* Is\_Diabetes or not
* GUI (Graphical users’ interface)

5) **Software Risk Issues**

* Not applicable

6) **Features to be Tested**

* Is\_Diabetes and GUI

7) **Features not to be Tested**

* Not applicable

8) **Approach**

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

9) **Item Pass/Fail Criteria**

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

10) **Suspension Criteria and Resumption Requirements**

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

11) **Test Deliverables**

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

12) **Remaining Test Tasks**

* not applicable

13) **Environmental Needs**

* IDE (VS code)

14) **Staffing and Training Needs**

* 2 people required to test the product

15) **Responsibilities**

* Report to be given about the process of the product

16)  **Schedule**

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

17) **Planning Risks and Contingencies**

* The machine used for testing is not working or not yet arrived

18) **Approvals**

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

19) **Glossary**

* SRS = software require specification
* GUI= graphic user interface

**Test case**

1.Test1 = Take 45 as glucose and 63 as blood pressure as input and calculated output required is 1 or else it is fail

2.Test2 = Take 40 as glucose and 92 as blood pressure as input and calculated output required is 0 or else it is fail

[NEGATIVE TEST CASE]

3.Test3 = Take 40 as glucose and 50 as blood pressure as input and calculated output required is 0 or else it is fail

4.Test4 = Take 40 as glucose and 200 as blood pressure as input and calculated output required is 0 or else it is fail

5.Test\_diabetes\_3 = Take 20 as glucose and -10 as blood pressure as input and calculated output required is 0 or else it is fail