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

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