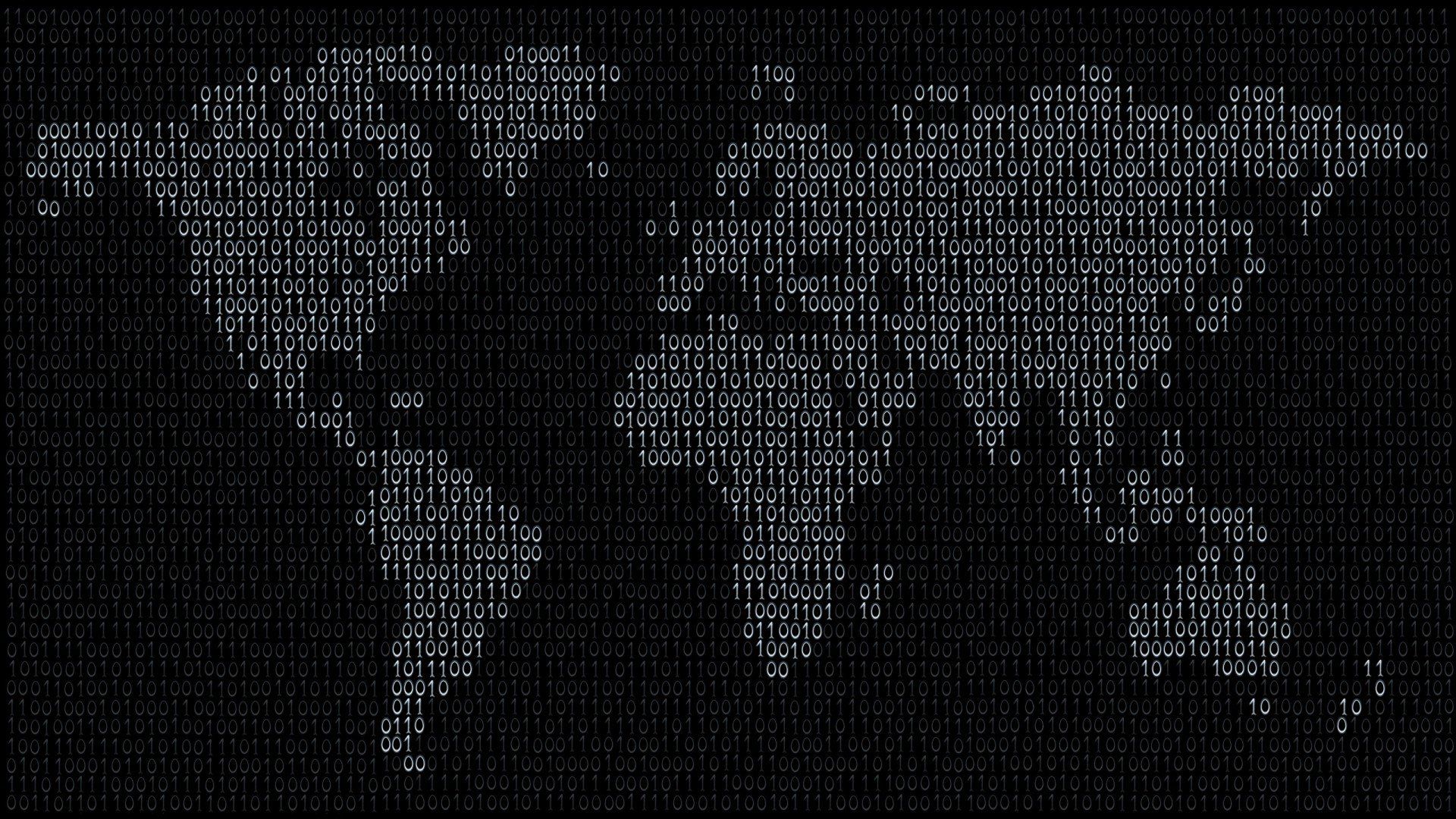
LOGIC CIRCUIT

SIMULATOR

Test Report

Version<1.0>

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# 1. Introduction

## 1.1. Purpose

The aim of making this report is to check the defects and errors which we faced

during developing the software and tried to resolve them. The whole idea behind this testing process is to provide the best possible product to provide a better experience to the costumer after using it . The following test report stands by the following functionalities mentioned under the software requirement specification (SRS) .

# 2. Test Plan

There are various types of test plan but here we are doing testing level specific test plans and under this also we are following unit test plan and system test plan.

# 3. Details of Unit Testing

## 3.1. IsLoggedIn

| Test Number | Input/Local Variable | Expected Output | Actual Output | Pass/Fail |
| --- | --- | --- | --- | --- |
| 3.1.1 | String 1,2,3,4 | Enter username and password | Enter user name and pasword | Pass |
| 3.1.2 | Input | Data is fetched from Database and user is logged in | Data is fetched from Database and user is logged in. | Pass |

## 3.2. Registration

| Test Number | Input/ Local Variable | Expected Output | Actual Output | Pass/Fail |
| --- | --- | --- | --- | --- |
| 3.2.1 | String | Enter the credentials | Enter the credentials | Pass |
| 3.2.2 | String | Enter the password | Enter the password | Pass |
| 3.2.3 | Inout | Registration succesfull | Registration succesfull | Pass |

| Test Number | Input/Local Variable | Expected Output | Actual Output | Pass/Fail |
| --- | --- | --- | --- | --- |
| 3.3.1 | atpresent, switchh, vecbool[ ], count | All the occurrence of an alphabet in the expression have the same bool value. | Yes all occurrences have the same value. | Pass . |
| 3.3.2 | character[ ], complementcharacter[ ] | If complement of a variable satisfies its properties. | Yes if A is complement of a, thenA=a’. | Pass . |

## 3.3. bool check

## 3.4. bool fun

| Test Number | Input/Local Variable | Expected Output | Actual Output | Pass/Fail |
| --- | --- | --- | --- | --- |
| 3.4.1 | string, stack<char>, char | Infix to post fix form of expression | Post fix form is formed | Pass |
| 3.4.2 | Bool | Expression is solved and top of the stack contain the output | Yes top of stack contains exact ouput. | Pass |

## 3.5. print

| Test Number | Input/Local Variables | Expected Ouput | Actual Output | Pass/Fail |
| --- | --- | --- | --- | --- |
| 3.5.1 | Static bool, bool, | Equation is satisfiable | Satisfiable/Unsatisfiable | Fail |
| 3.5.2 | Input | Print true case truth table | True case truth table is printed | Pass |

## 3.6. backtrack

| Test Number | Input/Local Variables | Expected Output | Actual Output | Pass/Fail |
| --- | --- | --- | --- | --- |
| 3.6.1 | Vector, string, bool, int. | Base case for recursion is settled | Yes base case is defined | Pass |
| 3.46.2 | Input | 2 to the power n cases are generated recursively | 2 to the power n cases are generated. | Pass |

# 4. System Testing

| Step | Test Step | Intended Result | Actual Result | Pass/Fail |
| --- | --- | --- | --- | --- |
| **1** | User->Register | Registration form will open | Registration menu open up | Pass |
| **2** | System -> enter credentials | User will enter his/her personal information | Data entered | Pass |
| **3** | System -> enter password | User enters new password | Password fetch succesfull | Pass |
| **4** | User -> create new account | New account created | New account created | Pass |
| **5** | User -> login | Login menu opens up requesting for username and password . | Login menu opens up requesting for username and password. | Pass |
| **6** | User -> enters username and password | System checks valid username and password | System checks for valid username and password. | Pass |
| **7** | System ->valid username and password | user logged in. | User logged in. | Pass |
| **8** | System -> invalid username and password | User is not logged in | User is not logged in | Pass |
| **9** | System ->enter logical expression | User enters logical expression | User enters logical expression | Pass |
| **10** | System -> checks validity of expression | Expression is valid | Expression is valid | Pass |
| **11** | System -> solve valid input expression | Output is obtain in the form of truth table for true cases | Output is obtained for truth cases in the form of truth table. | Pass |
| **12** | System ->input is invalid | Invalid expression | invalid expression | Fail |

# 5.0 Unresolved Test Instances

| Test Case ID | Summary Of Defect | Why Not Resolved |
| --- | --- | --- |
| 3.5.1 | Input should be in the given form | unable to find it |