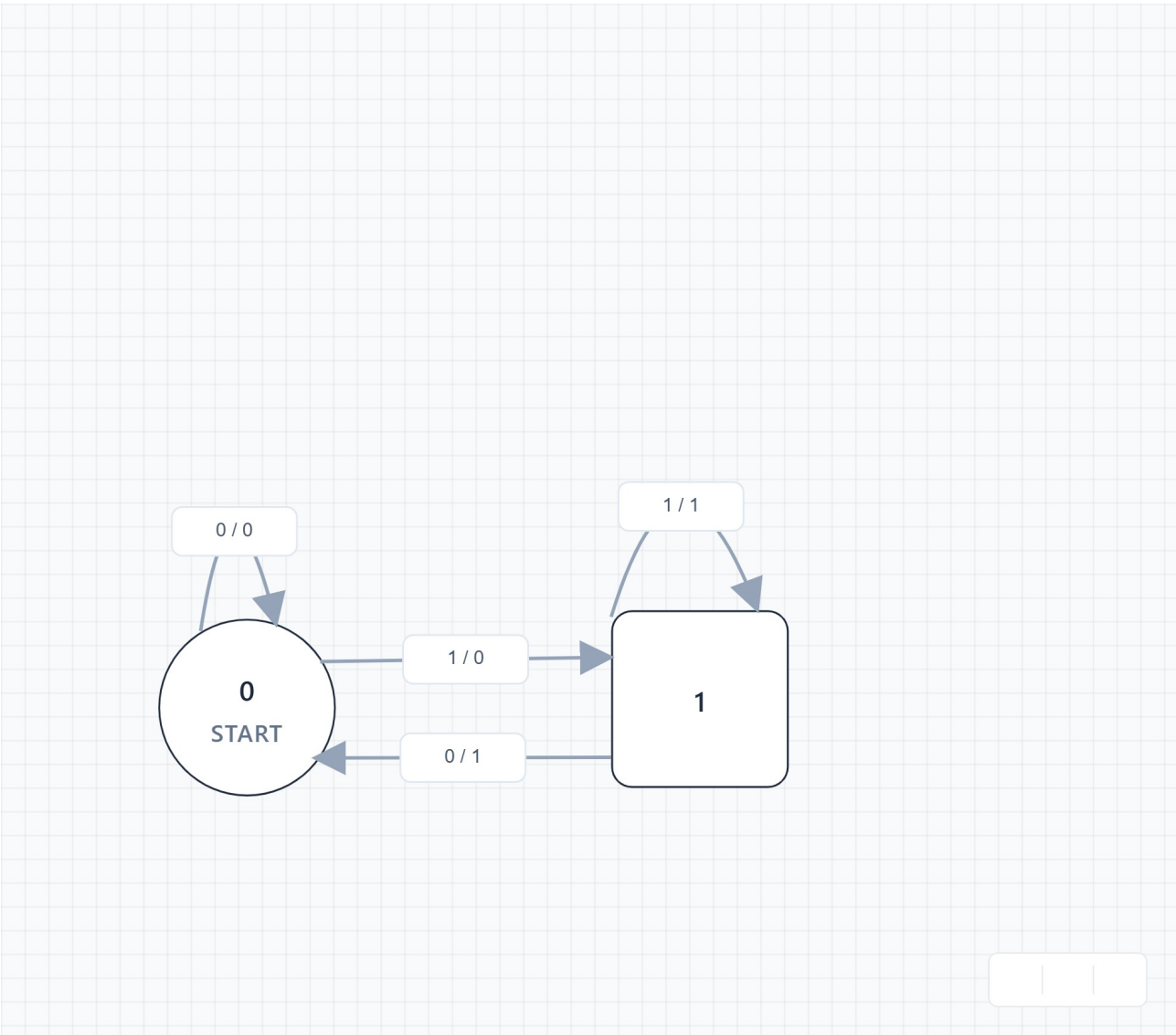# FSM Design Report

Delay Component

Type: Mealy Machine

Generated: 23/11/2025, 00:49:16

Mealy machine that delays Boolean input by one cycle. From CPS Systems book Figure 2.3.

Statistic	Value
Total States	2
Total Transitions	4
Input Variables	0
Output Variables	0
Internal Variables	0

System Diagram

State Definitions

State Name	Initial	Final	Notes
0	Yes	No	-
1	No	No	-

Transition Logic

From	To	Input	Guard	Action	Output
0	0	0	-	-	0
0	1	1	-	-	0
1	0	0	-	-	1
1	1	1	-	-	1

Verification Report

' PASSED: Valid Model Structure

No issues detected.

Test Case Execution

Test Name	Inputs	Expected Output	Status