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USING BOUNDRY VALUE ANALYSIS AND EQUIVALENCE PARRTITIONING

Here I have three conditions so by doing boundary value analysis it makes 3test of each functionality (below, middle, above)

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| **Test Case Description** | **Input (Name, ID)** | **Expected Output** | **Actual Output** | **Result** |
| Valid Name and ID | ("irfan", 1) | "Passenger added. Attendance marked for irfan with id 1" | "Passenger added. Attendance marked for irfan with id 1" | Pass |
| Empty Name | ("", 2) | "Error: Invalid name." | "Error: Invalid name." | Pass |
| Null Name | (null, 3) | "Error: Invalid name." | "Error: Invalid name." | Pass |
| Negative ID | ("Ahmed", -1) | "Error: Invalid ID." | "Error: Invalid ID." | Pass |
| Zero ID | ("Ahmed", 0) | "Error: Invalid ID." | "Error: Invalid ID." | Pass |
| Valid Boundary ID | ("Ali", 1) | "Passenger added. Attendance marked for Ali with id 1" | "Passenger added. Attendance marked for Ali with id 1" | Pass |
| Bus Boundary Full | Fill 5 Passengers | "Passenger added. Attendance marked for Ali with id 5" | "Passenger added. Attendance marked for Ali with id 5" | Pass |
| Bus Over Full | Add 6th Passenger | "Bus is full. Cannot add more passengers." | "Bus is full. Cannot add more passengers." | Pass |
| Duplicate ID | ("irfan", 1), ("karar", 1) | "Error: Duplicate ID." | "Error: Duplicate ID." | Pass |