This activity diagram represents the logical process of adding a log to the SQL Database that the device uses to store information.

| DBManager | Log |
|---|---|

addLog(log)

Create transaction with the database

Create JSON array to store recorded heart rates

Append each heart rate to the array

Convert JSON array to a JSON document

Convert JSON document to QString

Create new query

Prepare the query for log insertion

Get values of log and bind to query → Return Values

Execute query

did execute fail?

yes

no → Rollback the database to erase the log addition → return false

Commit the log addition to the database

return the result of the commit