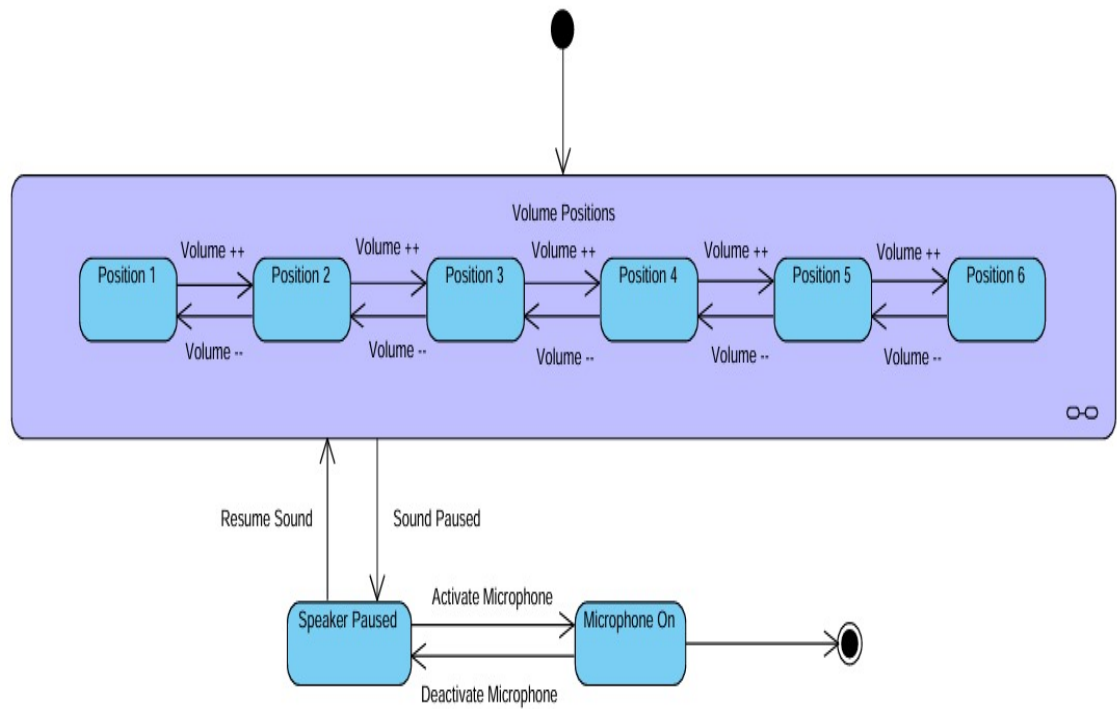


Software Design Architecture
Assignment 03
BSSE-4-A

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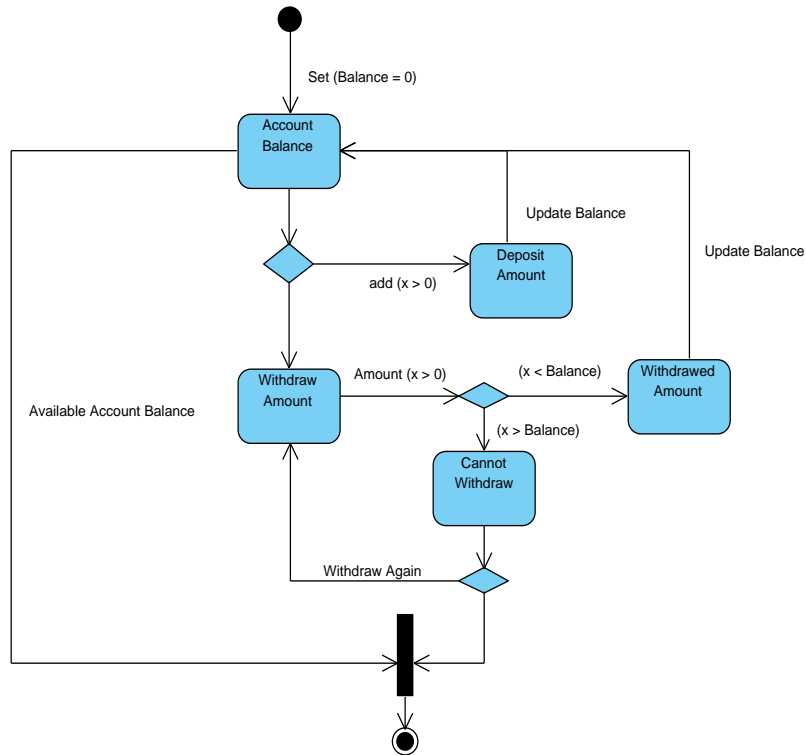
May 8, 2024

Question 1: Software Personal Assistant System



The speaker has six volume positions that can only be switched sequentially, from 1st to 6th and vice versa. We have a next state of speaker paused and the next one is microphone activated.

Question 2: Deposit & Withdraw Amount



This state diagram represents a simple bank account. Initially, the account balance is 0. We can withdraw an amount if it is greater than zero. If the amount exceeds the account balance, no withdrawal is allowed. The decision is whether to

withdraw again or move to the final state.