

Inside your **documentation** folder, create a new document called **lastname\_decision\_tree** where **lastname** should be replaced with your last name. Use this document to answer the questions below.

## A. Decision Tree

Describe a decision process that you will implement on your product website. It must meet the following requirements:

- Here's the decision process I'll implement on the product website. It has **four** decision nodes that gate what the user ultimately sees in the estimate panel (study time and cost).
- **Decision Node 1 – Topic entered?** If **No**, the flow stops and the estimate stays hidden because computing time/cost without a subject would be misleading. If **Yes**, we continue since a valid topic signals clear user intent and makes the estimate meaningful.
- **Decision Node 2 – Deck size chosen (10/20/30)?** If **None**, we stop and keep the estimate hidden because time and price depend directly on card count. If **10/20/30**, we set **numCards** accordingly and continue; this enables accurate math tied to the user's choice.
- **Decision Node 3 – Shuffle mode on?** If **Yes**, we set a higher time-per-card (adds ~5s) because randomized order increases cognitive switching, which realistically lengthens study time. If **No**, we use the baseline time-per-card; this keeps estimates honest for sequential study.
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## B. Flowchart

Draw a flowchart of your decision tree using the flowchart conventions shown in the examples above. A summary of the flowchart conventions are given in the following:

### Flashcard Generator – Decision Tree Flowchart

