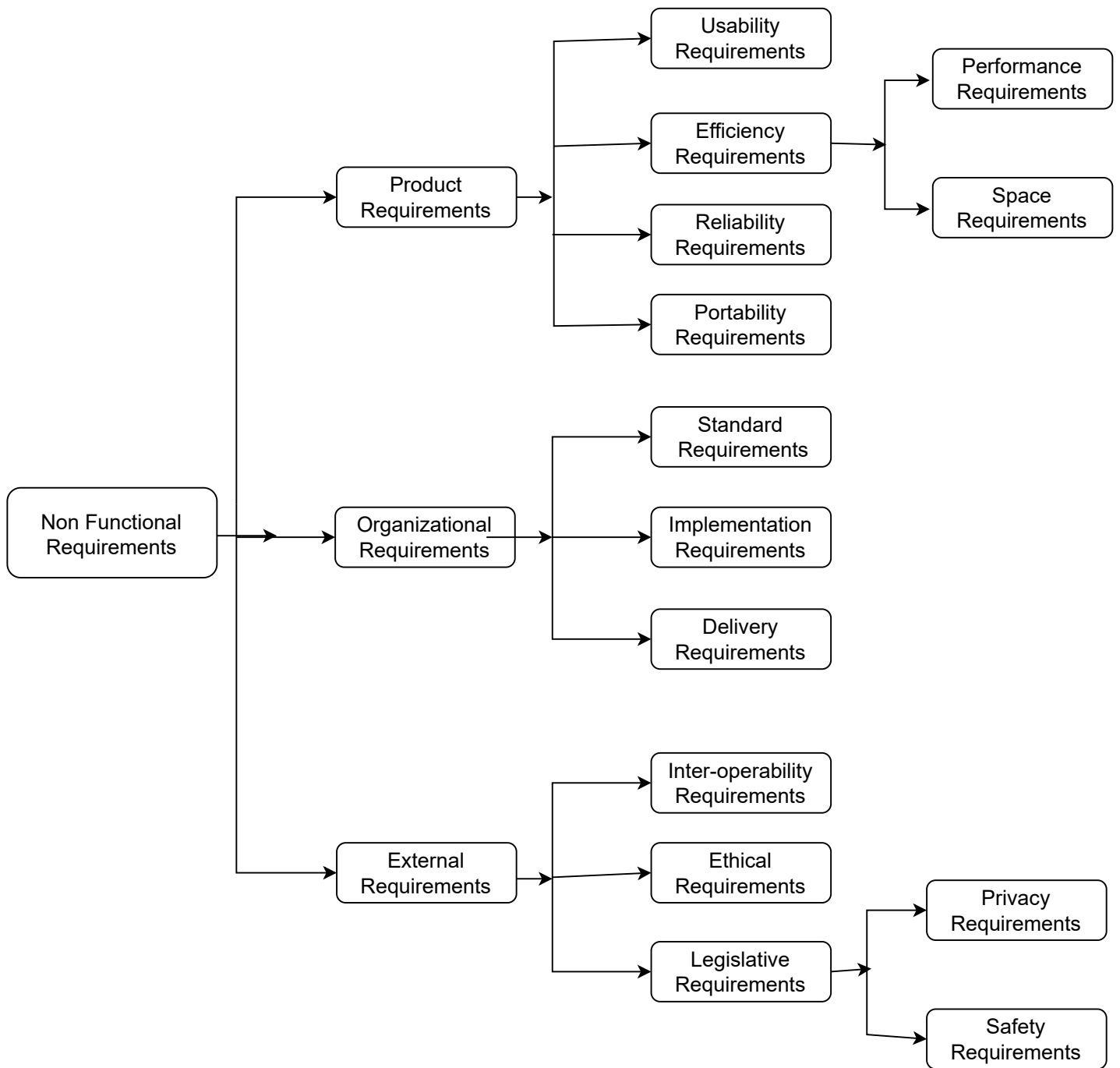
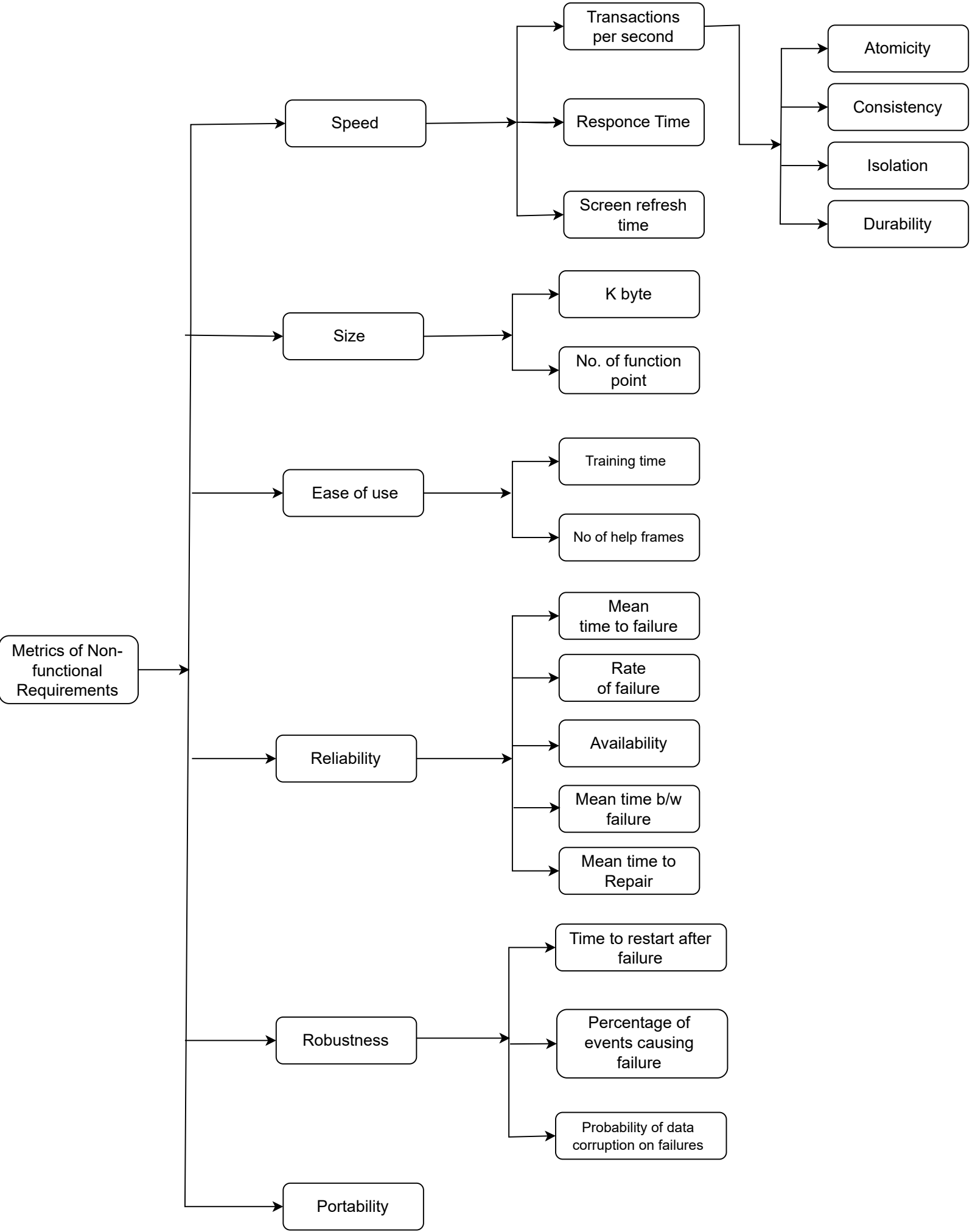


Product Requirements
<b>Usability:</b> Time required to learn how to use the software should be less.
<b>Efficiency:</b> This characteristic relates to the way software uses the available resources. The software should make effective use of the storage space and execute command as per desired timing requirements.
<b>Reliability:</b> The software product should not have any defects. Not only this, it shouldn't fail while execution.
Or
<b>Reliability</b> is how system wil operate without failure for a defined duration.

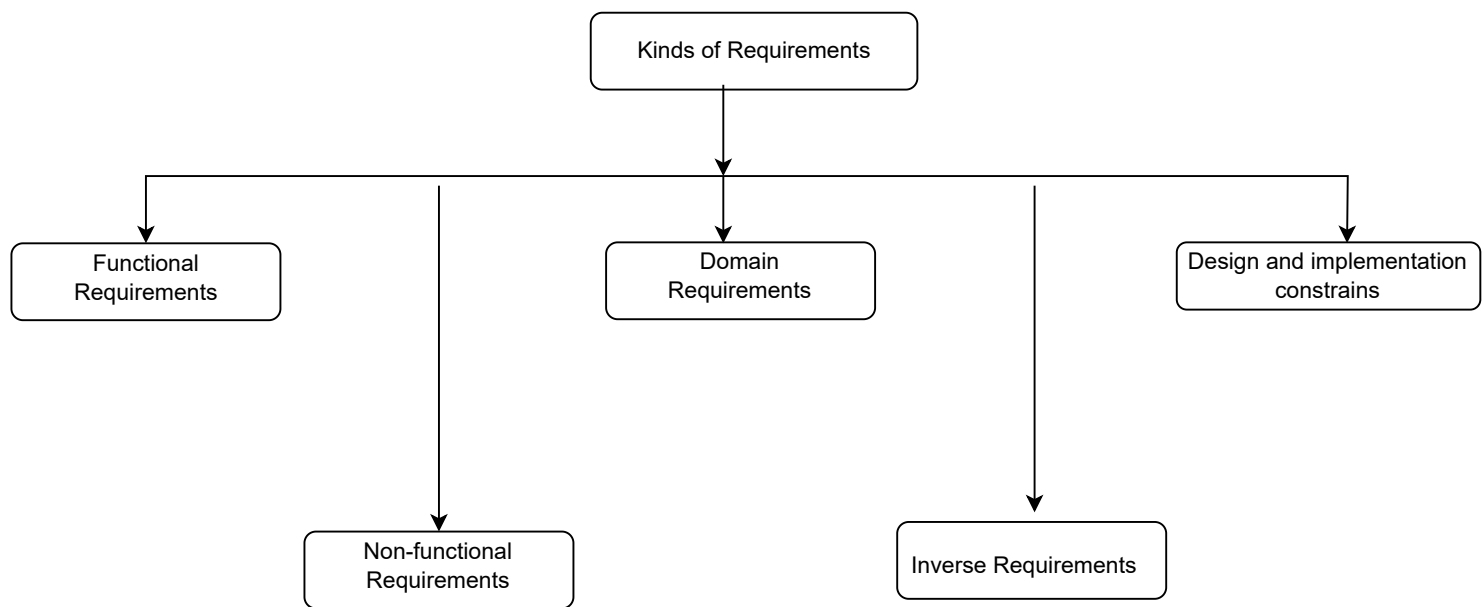




Transactions
<p><b>Atomicity:</b></p> <p><b>Consistency:</b> The system ensures that the payment is consistent with the user's account balance and updates the payment records accurately.</p> <p><b>Isolation:</b> The transaction is isolated from other transactions, ensuring that it operates independently.</p> <p><b>Durability:</b> Once the payment is confirmed, the changes are permanent and will not be lost even in the event of a system failure.</p>
Response Time
<p><b>Response Time:</b> After heavy calculation how long to response.</p>
Screen Refresh Time
<p><b>Screen Refresh Time:</b> computer games, graphic oriented use this more</p>

Size
<p><b>K byte:</b> to measure size in kilo bytes of executable source or source code</p> <p><b>No. of function point:</b> Count of function points, which can then be used for estimating project effort, cost and other metrics.</p>
Ease of use
<p><b>Training time:</b> to use a system</p> <p><b>No. of function point:</b> how much help build in the product</p>
Reliability
<p><b>Mean time to failure:</b> average life time of product before it fails. formula = Total Operating Time / No. of Failures</p> <p><b>Mean time to repair:</b> average time it takes to repair a failed system. formula = Total DownTime / No. of Repairs</p> <p><b>Mean time b/w failure:</b> formula = Total operating time / (No. of Failures-1)</p> <p><b>Rate of failure:</b> Rate at which failure occur in system. formula = No of Failures / Total Operating Time</p> <p><b>Availability:</b> Probability of product for being unavailable. The remaining time is availability time. Availability depends on performance, speed and response time</p>

Robustness (Cope up with faults that occurred)
<p><b>Time to restart after failure:</b> how long a product take to response after failure has occurred</p> <p><b>Percentage of events causing failure:</b> minimize the percentage to 0 of failure occurrence.</p> <p><b>Probability of data corruption on failures:</b></p>
Types of faults
<p><b>Hardware faults</b>(disk fail, device timeout)</p> <p><b>Software faults</b>(bugs, error, defects)</p> <p><b>User faults</b>(entering data in different format)</p>



Kinds of Requirements
<p><b>Domain Requirements:</b> Requirements that come from the application domain eg. Banking domain has its own specific constraints, for example, most banks do not allow over-draw on most accounts, however, most banks allow some accounts to be overdrawn</p>
<p><b>Inverse Requirements:</b> These requirements indicate the indecisive nature of customers.e.g.The system shall not use red color in the user interface, whenever it is asking for inputs from the end-user</p>

