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- Module Md2LaTeXCorrectness
 For now we only aim at checking the correctness of the JSON Prefs
 entities are: user (singleton), the JSONFile, the checker
{\tt VARIABLE}\ entityState
 To be expressive:
XOR(a, b) \stackrel{\Delta}{=} (a \lor b) \land (\neg a \lor \neg b)
SetOfEntityStates \triangleq [
         user: \{ \text{"working"}, \text{"done"} \},
         prefs: \{\text{"not checked"}, \text{"checked"}\} \times \{\text{"compliant"}, \text{"not compliant"}\},
         checker : { "working", "done" }]
InitCorrectness \triangleq
     \land\ entityState \in SetOfEntityStates
NextCorrectness \triangleq
   checker is working:
  checker simply achieves processing.
         \land entityState.checker = "working"
         \land entityState' = [entityState \ Except \ !.checker = "done"]
    checker is done:
  1. user is working: user achieves all current tasks
     \lor \land entityState.user = "working"
         \land entityState.checker = "done"
         \land entityState' = [entityState \ EXCEPT \ !.user = "done"]
    checker is done:
   2. user is done, checker is done: user goes back to work
     \lor \land entityState.user = "done"
         \land entityState.checker = "done"
         \land entityState' = [entityState \ EXCEPT \ !.user = "working"]
isDone \stackrel{\triangle}{=} \land entityState.user = "done"
          \land entityState.checker = "done"
\ * Modification History
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