———— MODULE $success$ ————

$NoOrphanFiles \triangleq$
  There does not exist a key
  $\neg \exists\, k \in UUIDS :$
    That is in the block store
    $\wedge\, blobStoreState[k] \neq \text{“UNSET”}$
    And not in database
    $\wedge\, \forall\, u \in USERIDS :$
      $databaseState[u].imageId \neq k$

$AlwaysNoOrphanFiles \triangleq \Box NoOrphanFiles$

 At some point in the future there will be no orphan files
 If it's true ever, it is True
$EventuallyNoOrphanFiles \triangleq \Diamond NoOrphanFiles$

 Always, at some point in the future, there will be no orphan files
 This is how we test eventual consistency. It can't just happen once
 It must always happen
$AlwaysEventuallyNoOrphanFiles \triangleq \Box EventuallyNoOrphanFiles$