

TAD<Actions performed by the user>

Action = { TypeAction = <TypeAction>, Task = <Task> }

{invariant : Tasks.isAdded = True }

Primitive operations

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|---------------------|----------------|------------|
| • RegisterActions | String x Tasks | ->Boolean |
| • GetLastAction | Stack | ->Action |
| • Search Actions | Action | ->Position |
| • DeleteLastActions | Stack | ->Action |
| • IsEmptyActions | Stack | ->Boolean |

RegisterActions(action, key, value)

“Create a new action in the stack”

{pre: task={title, description,limitDate and priority} \wedge action \in String}

{post: isRegisterAction= True }

GetLastAction(Stack)

“Gets the last action in the stack”

{pre: stack.size > 0 }

{post: Action = Stack.getPeek}

SearchActions(action)

“Search the position of the action in the stack”

{pre: isExistsAction = True }

{post:Position \in Integer }

UndoLastActions(Stack)

“Removes the last position in the stack”

{pre:stack.size > 0 }

{post: Action = UndoLastAction}

IsEmptyActions(Stack)

“Checks if the stack is empty(no action)”

{pre: stack.size > 0 \vee stack.size = 0}

{post: isEmpty = false \vee isEmpty = true}