
MODULE *CalendarMark2*

EXTENDS *Integers*

VARIABLES *choice, pc, persona*

$Init \triangleq \wedge (choice = 0)$
 $\wedge (pc = \text{"Begin"})$
 $\wedge (persona = 0)$

$TypeOk \triangleq \wedge (choice' \in 0 \dots 5)$
 $\wedge (persona' \in 0 \dots 2)$

$ViewCalendar \triangleq \text{IF } choice = 0 \wedge (persona = 0 \vee persona = 1)$

THEN

$pc' = \text{"Viewing Calendar"}$

$\wedge \text{UNCHANGED } \langle choice, persona \rangle$

ELSE

$pc' = \text{"log in failed try again or Need to register"}$

$\wedge \text{UNCHANGED } \langle choice, persona \rangle$

$AcceptDeny \triangleq \text{IF } choice = 1 \wedge (persona = 0 \vee persona = 1)$

THEN

$pc' = \text{"Accepted/Denied request - Sending notification"}$

$\wedge \text{UNCHANGED } \langle choice, persona \rangle$

ELSE

$pc' = \text{"log in failed try again or Need to register"}$

$\wedge \text{UNCHANGED } \langle choice, persona \rangle$

$CreateSchedule \triangleq \text{IF } choice = 2 \wedge persona = 0$

THEN

$pc' = \text{"Schedule changes made - Sending notification"}$

$\wedge \text{UNCHANGED } \langle choice, persona \rangle$

ELSE

$pc' = \text{" You do not have access right to this feature or Need to register"}$

$\wedge \text{UNCHANGED } \langle choice, persona \rangle$

$Request \triangleq \text{IF } choice = 3 \wedge (persona = 0 \vee persona = 1)$

THEN

$pc' = \text{"You have sucessfully made a request - Sending notification"}$

$\wedge \text{UNCHANGED } \langle choice, persona \rangle$

ELSE

$pc' = \text{"log in failed try again or Need to register"}$

$\wedge \text{UNCHANGED } \langle choice, persona \rangle$

$Register \triangleq \text{IF } choice = 4 \wedge persona = 3$

THEN

$pc' = \text{"You have registered successfully - Sending notification"}$

$\wedge \text{UNCHANGED } \langle choice, persona \rangle$

ELSE

$$\begin{aligned}
& pc' = \text{"This user already exists - Try again"} \\
& \quad \wedge \text{UNCHANGED } \langle choice, persona \rangle \\
RescheduleSchedule \triangleq & \text{ IF } choice = 2 \wedge persona = 0 \\
& \quad \text{ THEN} \\
& \quad pc' = \text{"Schedule changes made - Sending notification"} \\
& \quad \quad \wedge \text{UNCHANGED } \langle choice, persona \rangle \\
& \text{ ELSE} \\
& \quad pc' = \text{" You do not have access right to this feature or Need to register"} \\
& \quad \quad \wedge \text{UNCHANGED } \langle choice, persona \rangle \\
Next \triangleq & \vee ViewCalendar \\
& \vee AcceptDeny \\
& \vee CreateSchedule \\
& \vee Request \\
& \vee Register \\
& \vee RescheduleSchedule
\end{aligned}$$

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