QuickFioriTimeEvents

Windows-Taskbar tool to quickly add time events in SAP Fiori.

My employer uses a SAP Fiori tool to track our time events (working hours). That means that we have to open the appropiate website and clock in and out. Cause I found this relatively annoying I created this small tool for taskbar with which you can quickly clock in and out.

The tool is shown as a small icon 🏄 in the taskbar. A right click opens a menu that let you perform some actions quickly.

Features

- Arrive (clock in)
- Leave (clock out)
- Leave and shutdown the PC (sleep and hybernate are also possible)
- Start a pause
- Start a pause and shutdown the PC (sleep and hybernate are also possible)
- End a pause
- Show the time you are clocked in and the work time (clock in time minus pause time)
- Log a leave event: The clock out time is only logged and not submitted to SAP Fiori. This is useful, as an offset time can be added to the leave event and events in the future might be blocked.
- Log a leave event and shutdown (sleep and hybernate are also possible)
- Submit logged leave event and arrive afterwards
- Get the current work time from SAP Fiori

Disclaimer

So far this is a Windows only tool. It uses [BeautifulSoup](#) and requires [Firefox](#) to interact with the Fiori website.

Installation

To use the tool [Firefox](#) needs to be installed. The tool does not need to be installed just run it. When run for the first time, you need to define the url for *Fiori*. Open a browser navigate to your Fiori website and copy the address into the shown window.

When run for the first time, the tool also searches for an installation of Firefox. This is done in the background and usually doesn't require any inputs. But the paths can also be defined in the config.ini file.

Autostart

In order to start the tool with Windows, it needs to be put into the *Startup* directory. To open the *Startup* directory, hit the keys Win+R, type `shell:startup` into the opened form (window) and click ok. Afterwards create a shortcut of the *QuickFioriTimeEvents.exe* (right click on the exe and select *Create shortcut*) and copy the just created shortcut to the *Startup* directory. From now on the tool will be started when Windows is started.

Using the application

You mainly interact with the tool trough the taskbar icon 🏄. Right click on it and perform one of the actions.

Commands

Quit

Closes the application.

Arrive

Adds an arrive or clock in event to your time events in Fiori. The time in *[ArriveLeave]ArriveOffset* will be added to the current time.

Leave

Adds a leave or clock out event to your time events in Fiori. The time in *[ArriveLeave]LeaveOffset* will be added to the current time.

Leave and hybernate

Does the same as [Leave](#) and executes the *[General]ShutdownCommand* afterwards.

Start Pause

Adds a pause start event to your time events in Fiori. The time in *[ArriveLeave]StartPauseOffset* will be added to the current time.

Start Pause and hybernate

Does the same as [Start Pause](#) and executes the *[General]PauseStartCommand* afterwards.

End Pause

Adds a pause end event to your time events in Fiori. The time in *[ArriveLeave]EndPauseOffset* will be added to the current time.

Arriv (submit Leave)

Before doing the same as [Arrive](#), the currently logged leave (or clock out) time is added to time events in Fiori. The added leave time is the logged leave time plus *[ArriveLeave]LeaveLogOffset*.

Log Leave

Log the current time as the leave (clock out) time but do not submit this to Fiori.

Log Leave and hybernate

Does the same as [Log Leave](#) and executes the *[General]ShutdownCommand* afterwards.

Update state

Gets the current state (if you are logged in and the pause time) from Fiori.

Reset icon

Resets the icon to the default one.

Open config file

Open the *config.ini* file.

Open documentation

Opens the pdf version of this documentation. (You are probably reading it)

Show work time

Shows the time (hours:minutes:seconds) since you clocked in. It also shows the *time since clock in* minus the *pause time*. This is the time you have worked. By default this can be executed with a left click on the icon, if *[General]ShowWorkTimeOnLeftClick* is "True".

Icon state

The current state is indicated by the taskbar icon. It can be in the following states:

- Default icon.
- You are clocked in and working.
- You are clocked out.
- A leave or clock out event has ben logged (but not submitted).
- You are clocked in but currently in a pause (and not working).
- An error has occured.

Configuring the application

Right now the application can only be configured via the config.ini file. The file in seperated into different sections. In order to change the settings of the application you have to edit the config.ini file. The settings of each section are described in the tables below.

Menu items

In order to customize what is shown in the right click menu you have to change the settings *[General]Order*.

ArriveLeave

Setting	Default value	Desciption
[ArriveLeave]Approve	True	A value indicating whether the event shall be approved. Only approved events are stored in fiori. Set to False to approve manual.
[ArriveLeave]ArriveOffset	-5	Minutes that will be added to the arrive time. Negative values are possible.
[ArriveLeave]LeaveOffset	0	Minutes that will be added to the leave time. Negative values are possible.
[ArriveLeave]LeaveLogOffset	5	Minutes that will be added to the leave time. Negative values are possible.
[ArriveLeave]StartPauseOffset	0	Minutes that will be added to the pause start time. Negative values are possible.
[ArriveLeave]EndPauseOffset	0	Minutes that will be added to the pause end time. Negative values are possible.

General

Setting	Default value	Desciption
[General]MinLogLevel		The minimum level of log entries. CRITICAL = 50, ERROR = 40, W/ DEBUG = 10, NOTSET = 0
[General]ClearLog	True	A value indicating whether the log shall be deleted each time the softw
[General]WaitTimeAfterPageLoad	10	The time in seconds to wait after the initial page is loaded in the brows
[General]Url		The (base) url of Fiori.
[General]UrlHome	#Shell-home	The path to the 'Home' page.
[General]UrlTime	?appState=lean#TimeEntry-change	The path to the 'Time' page.
[General]FirefoxProfilePath		The path where the firefox profile is stored.
[General]FirefoxBinaryPath		The path where the firefox executable us located.
[General]CheckFirefoxProfilePath	True	A value whether to check if [General]FirefoxBinaryPath is set.
[General]ArriveEvent	P10	The arrive event indentifier.
[General]LeaveEvent	P20	The leave event indentifier.
[General]PauseStartEvent	P15	The pause start event indentifier.
[General]PauseEndEvent	P25	The pause end event indentifier.
[General]PauseStartCommand	shutdown.exe /h	The shutdown command. '/h' means hybernate instead of normal shutd
[General]ShutdownCommand	shutdown.exe /h	The shutdown command. '/h' means hybernate instead of normal shutd
[General]CloseInstance	True	A value indicating whether the browser instance should be quit after th
[General]ShowWorkTimeOnLeftClick	True	A value indicating whether a left click on the icon shows the current w
[General]Order	Quit|--- |Arrive|Leave|LeaveAndShutdown|--- |StartPause|StartPauseAndShutdown|EndPause|--- |LeaveLoggedAndArrive|LogLeave|LogLeaveAndShutdown|--- |GetCurrentState|SetDefaultIcon|OpenConfig|OpenReadme|--- |ShowWorkTime	The order of the elemnts in the right click menu of the icon. Each element is seperated with '|'. Possible elements: ---,Quit,Arrive,Leave,StartPause,StartPauseAndShutdown,EndPause, ShowWorkTime,LeaveLoggedAndArrive,LeaveAndShutdown,LogLe GetCurrentState,SetDefaultIcon,OpenConfig,OpenReadme

State

These settings doesn't need to be edited as they are only used to save the state of the application. So they will change on each run.

Setting	Default value	Desciption
[State]LastArriveDateTime		The date and time the arrive event was set the last time
[State]LastPing		The date and time of the last interaction with the software.
[State]IsPause	False	A value indicating whether you are currently in a pause.
[State]LastPauseDateTime		The date and time of the last pause start event.
[State]AccumulatedPauseTime	0	The time in seconds the user has been in a pause.
[State]LoggedLeaveDateTime		The date and time of the leave event that will be created when using LeaveAndArrive.