# TIME TRACKER FILLING TOOL

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TTFT (Time tracker filling tool) is a tool for automated filling the time tracking sheets of ICS FFPW USB (Institute of Complex Systems, Faculty of Fisheries and Protection of Waters, University of South Bohemia). Tool is based on Selenium WebDriver and written in Python.

#### Running

Tool can be started without argument (if **schedule.txt** is available in tool's root directory):

```
python dochazka.py
```

Also it is possible to provide custom schedule file and/or custom config file:

```
python dochazka.py -f %absolute_path_to_schedule_file%
python dochazka.py -c %absolute_path_to_config_file%
python dochazka.py -c %path_1% -f %path_2%
```

Please make sure to provide the appropriate username and password in **config.ini**.

### Project structure

```
/src
__init__.py
autofill.py
parser.py
dochazka.py
schedule.txt
config.ini
```

### Dependencies

TTFT relies on Selenium WebDriver:

```
sudo pip install selenium
```

Also Firefox browser should be installed.

## Configuration file

Configuration file (**config.ini**) contains username and password needed to log in to the tracking system. The valid file structure is following:

```
[Credentials]
Username = your_username
Password = your_password
```

### Creating schedules

TTFT processes scenario from the TXT file (**schedule.txt**) and performes command(s) inside it. The command structure is:

FILL activity\_type FROM start\_date TO end\_date (start\_time:end\_time) IN month MONTH WITH 'comment\_text' COMMENT

All command from FILL to COMMENT is one line. Uppercase words are used parsing the command, do not change them. User have to specify activity type (work, vacation, sick leave, etc.), date range (e.g. from 1st to 15th), time to submit and month. Comments are optional (hovewer, single quotes are required).

Schedule can contain several lines of commands that will be executed one by one, for example:

- vacation from 11th to 20th
- sick leave from 21th to end of the month

These translates into schedule commands as:

FILL vacation FROM 11 TO 20 (07:00-15:30) IN October MONTH WITH 'vacation' COMMENT FILL sick FROM 21 TO last (07:00-15:30) IN October MONTH WITH 'sick leave' COMMENT

### Activity types

- 'vacation': Dovolená (vacation)
- 'trip': Služebni cesta (busibess trip)
- 'sick': Nemoc (sick leave)
- 'work': Práce (regular work)
- 'family': Ošetřování člena rodiny
- 'holiday': Jiné volno
- 'dayoff': Nahradní volno (day off)
- 'doctor': Celodenní lekař
- 'other': Indispoziční volno

# Start / end date:

- number (1 to last day of month, e.g. 31)
- 'yesterday'
- 'today'
- 'toworrow'
- 'last' last day of month
- 'first' first day of month

**Start / end time:** The format of time is HH:MM-HH:MM. For example, (07:00-18:00) means working from 7AM to 6PM. Hours can be in range from 00 to 23, minutes - from 00 to 50 (with step 10).

**Month:** Month can be specified as number (1 for January, 12 for December) or using the word: January, June, etc. Also user can use the keyword 'current' to use current month.

**Comment:** Comment is a text wrapped in ".

**Schedule examples:** Vacation from 1st of September (provided it's current month) till today:

FILL vacation FROM first TO today (07:00-15:30) IN current MONTH WITH 'vacation' COMMENT

FILL vacation FROM 1 TO today (07:00-15:30) IN September MONTH WITH 'vacation' COMMENT

FILL vacation FROM 1 TO today (07:00-15:30) IN 9 MONTH WITH 'vacation' COMMENT

Please keep in mind that 'today' keyword doesn't mean today's exact date (let's say '3rd of November 2015') but rather today's day number (3rd day of the month). Therefore using 'today' for upcoming months is legal:

FILL vacation FROM 1 TO today (07:00-15:30) IN current MONTH WITH ' ' COMMENT

FILL vacation FROM 1 TO today (07:00-15:30) IN December MONTH WITH ' ' COMMENT

**Also** be sure not to abuse 'first' and 'last' keywords. For example, the following example will cause error:

FILL vacation FROM last TO first (07:00-15:30) IN December MONTH WITH ' ' COMMENT