Development documentation of `drunt`

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1 Status report

Drunt is still under massive development, although it already works with a limited amount of options. Some very important features are still missing though, such as searching for events in the calendar. It is also not yet possible to list the calendar in CLI mode. GUI mode does not exist at all yet.

The delay in the development of drunt is mostly due to the effort made to make the code as error prone as possible: this sometimes results in longer, less legible code, but makes the program more robust in return.

1.1 What works

- interactive mode with limited functionality; working commands:
  - `help [command]`
  - `exit [options]`
  - `open [options]`
  - `create` ~~`[options]`~~
- files can be loaded into calendar in memory
- files can be created
- calendars can be written into files
- simple events can be added to calendars in memory (and the updated calendar can be saved to originally opened file, overwriting it)
- other functions which shall be used for features to be developed

1.2 What doesn't work *yet*

- GUI mode
- one–time launches (launching drunt without entering interactive mode, in order to perform a single operation)
- calendar listing (user cannot tell drunt to show calendar/events/anything yet)
- searching among events
- creating event with one command (as of yet, the way is to go through a wizard–like setup)
- personal configuration files
- deleting events (because they cannot be identified, since no option to search is available)

2 File structure

The executable file is built from several files. ~~The tree below illustrates file hierarchy.~~

2.1 `drunt.c`

The main `.c` file. It's sole purpose is to decide what to do upon launch — it achieves this by checking arguments passed to `main()`.

2.2 `dbHandler.c`

The name 'dbHandler' is a shortening of 'database handler'. This is probably the file that contains most of the work done by drunt. Functions:

2.2.1 `MYERRNO ICS_load(const char* file, Calendar* cal)`

This function is responsible for reading `.ics` files into memory, into a `Calendar` structure whose address is passed as an argument to the function.

The function first checks the validity with a helper function...

This is how documentation is going to look like