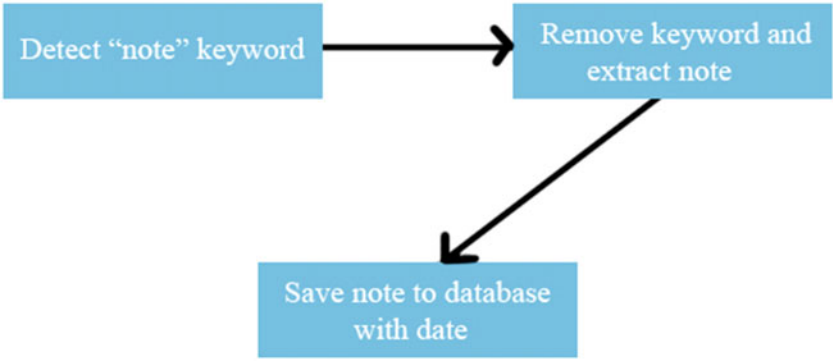


***Figure 6-1.*** *Note-saving workflow*

# Designing the Database

First things first: you need to design a SQLite3 database for storing notes. You have to create the database in the same format you used for the `profile.yaml` file (to protect the user's private data, which may be stored in the database). Give the database the name `memory.db.default`. Remember to make the following addition to the `.gitignore` file:

```
memory.db
```

To successfully run the module and work on the database, the user must enter the following command in the terminal:

```
$ cp memory.db.default memory.db
```

Enter the following command in your terminal to set up your database. This opens the database in the SQLite3 prompt:

```
$ sqlite3 memory.db
```

Now you have to create a table named `notes` containing two columns named `notes` and `notes_date`. The datatype for both columns is `TEXT`, and the fields cannot be null. So, enter the following command at the `sqlite` prompt:

```
sqlite> CREATE TABLE notes(
   ...> notes TEXT NOT NULL,
   ...> notes_date TEXT NOT NULL
   ...> );
```