flicket

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Flicket is a simple web based ticketing system written in Python using the flask web framework which supports English and French locales.

CHAPTER

ONE

WHY FLICKET?

I could not find a simple open source ticketing system that I really liked. So, decided to have a crack at creating something written in Python.

1.1 Requirements

1.1.1 Operating System

This will run on either Linux or Windows. Mac is untested.

1.1.2 Python

Python =>3.6 - I have not tested earlier versions of Python 3.

1.1.3 SQL Database Server

Out of the box Flicket is configured to work with MySQL. But there should be no reason other SQLAlchemy supported databases won't work just as well.

Note: When I last tried SQLite I had problems configuring the email settings within the administration settings. You may have to change them manually within SQLite.

1.1.4 Web Server

For a production environment a webserver such as Apache or nginx should be used to serve the application.

1.2 Installation

First read Requirements.

It is good practise to create a virtual environment before installing the python package requirements. Virtual environments can be considered a sand boxed python installation for a specific application. They are used since one application may require a different version of a python module than another.

1.2.1 Getting Flicket

The source code for Flicket is hosted at GitHub. You can either get the latest frozen zip file or use the latest master branch.

Warning: If you are upgrading from a previous version please read the CHANGELOG.

Master Branch

Get the latest master branch from github using git:

git clone https://github.com/evereux/flicket.git

Alternatively, download and unzip the master branch zip file.

1.2.2 Installing Python Requirements

Install the requirements using pip::

(env) C:\<folder_path>\flicket> pip install -r requirements.txt

1.2.3 Set Up

1. If using PostgreSQL or MySQL create your database and a database user that will access the flicket database. If using SQLite you can skip this step.

See SQLAlchemy_documentation for options.

2. Create the configuration json file:

python -m scripts.create_json

3. If you aren't using SQLite edit *config.json* and change "db_driver". "null" should be replaced by the driver you are using. See the documentation above regarding engines, dialects and drivers. For example, if you are using a MySQL database and want to use the pymysql driver.

"db_driver: "pymysql"

4. Install the driver you are using if not using SQLite. For example if you are using a MySQL database and want to use the pymysql driver.

pip install pymysql

5. Upgrade the database using manage.py from the command line:

flask db upgrade

6. Run the set-up script:. This is required to create the Admin user and site url defaults. These can be changed again via the admin panel once you log in:

flask run-set-up

7. Running development server for testing:

flask runserver

Log into the server using the username *admin* and the password defined during the setup process.

1.3 Administration

1.3.1 Command Line Options

From the command line the following options are available.

```
python manage.py
usage: manage.py [-?]
                 {db,run_set_up,export_users,import_users,update_user_posts,update_user_
⇔assigned,email_outstanding_tickets,runserver,shell}
                 . . .
positional arguments:
  {db,run_set_up,export_users,import_users,update_user_posts,update_user_assigned,email_
→outstanding_tickets,runserver,shell}
                        Perform database migrations
   dh
   run_set_up
    export_users
                        Command used by manage.py to export all the users from
                        the database to a json file. Useful if we need a list
                        of users to import into other applications.
    import_users
                        Command used by manage.py to import users from a json
                        file formatted such: [ { username, name, email,
                        password. ]
                        Command used by manage.py to update the users total
   update_user_posts
                        post count. Use when upgrading from 0.1.4.
   update_user_assigned
                        Command used by manage.py to update the users total
                        post count. Use if upgrading to 0.1.7.
    email_outstanding_tickets
                        Script to be run independently of the webserver.
                        Script emails users a list of outstanding tickets that
                        they have created or been assigned. To be run on a
                        regular basis using a cron job or similar. Email
```

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| runserver shell | functionality has to be enabled. Runs the Flask development server i.e. app.run() Runs a Python shell inside Flask application context. |
|--------------------------------|---|
| optional arguments: -?,help | show this help message and exit |

1.3.2 Administration Config Panel

Options

For email configuration the following options are available. At a minimum you should configure *mail_server*, *mail_port*, *mail_username* and *mail_password*.

For more information regarding these settings see the documentation for Flask-Mail.

class flicket_admin.models.flicket_config.FlicketConfig(*args: Any, **kwargs: Any)

Server configuration settings editable by administrators only via the administration page /flicket_admin/config/.

For email configuration settings see https://flask-mail.readthedocs.io/en/latest/ for more information.

Parameters

- mail_server (*str*) example: *smtp.yourcompany.com*.
- mail_port (int) example: 567
- mail_use_tls (bool) example: true
- mail_use_ssl (bool) example: false
- mail_debug (bool) example: false
- mail_username (str) example: flicket.admin
- mail_password (str) -
- mail_default_sender (str) example: flicket.admin@yourcompany.com
- mail_max_emails (int) -
- mail_suppress_send (bool) -
- mail_ascii_attachments (bool) -
- **application_title** (*str*) Changes the default banner text from *Flicket*. Can typically be your company name.
- posts_per_page (str) Maximum number of posts / topics displayed per page.
- **allowed_extensions** (*str*) A comma delimited list of file extensions users are allowed to upload. DO NOT include the . before the extension letter.
- ticket_upload_folder (*str*) The folder used for file uploads.
- **base_url** (*str*) The sites base url. This is used to resolve urls for emails and links. Broken links are probably a result of not setting this value.
- csv_dump_limit (str) The maximum number of rows exported to csv.
- change_category (bool) Enable/disable change category.

• change_category_only_admin_or_super_user (bool) – Only admins or super users can change category.

```
static extension_allowed(filename)
```

Validates extension of a given filename and returns True if valid. Otherwise False. :param filename: :return:

```
static valid_extensions()
```

Returns a list of valid extensions. :return: list()

1.4 Exporting / Importing Flicket Users

1.4.1 Exporting

If you need to export the users from the Flicket database you can run the following command:

python manage.py export_users

This will output a json file formatted thus:

```
[
    {
        'username': 'jblogs',
        'name': 'Joe Blogs',
        'email':'jblogs@email.com',
        'password': 'bcrypt_encoded_string'
}
]
```

1.4.2 Importing

If you need to import users run the following command:

python manage.py import_users

The file has to formatted as shown in the Exporting example.

1.5 Installing A Webserver

Currently the documentation will only describe how to install and configure the Apache webserver on Windows since this can be a bit trickier than on Linux. However, some of the steps here can also be used in Linux.

The instructions provided are for use with Python and Apache. You must ensure both Python and Apache have been compiled with the same version of Visual Studio. Also, Python and Apache must both be compiled for the same CPU architecture (x86 x64).

Also, the paths defined in this guide can be changed. You can by all means use different paths but you should try and and get the webserver running with the settings defined herein first.

1.5.1 Apache - Windows

Prior to installing a webserver you should confirm that flicket is working correctly by running the development webserver as described in the *Installation* instructions.

Install mod_wsgi

Download the applicable *mod_wsgi* whl for your flavour of Apache and Python from the Unofficial Windows Binaries for Python Extension Packages page. For example, if you have *Python 3.6 x64* and *Apache 2.4 x64* you would get the whl *mod_wsgi-4.6.5+ap24vc14-cp36-cp36m-win_amd64.whl*.

Whilst active in your flicket virtual environment install mod_wsgi:

```
pip install <path_to_download>mod_wsgi-4.6.5+ap24vc14-cp36-cp36m-win_amd64.whl
```

Installing Apache

Download Apache compiled with VC14 from the apache lounge.

Unzip the apache folder to your c:\ directory. You should end up with a folder structure like this:

```
C:\Apache24
C:\Apache24\bin
C:\Apache24\cgi-bin
```

Open the file C:\Apache24\conf\httpd.conf in a text editor like notepad++.

Ensure SRVROOT is pointing to the correct folder:

SRVROOT "C:\Apache24"

Uncomment mod_version line:

LoadModule version_module modules/mod_version.so

Add the following lines (put these after the other LoadModule declarations):

```
LoadModule wsgi_module "<path_to_your_virtualenv>/lib/site-packages/mod_wsgi/server/mod_

→wsgi.cp36-win_amd64.pyd"

WSGIPythonHome "<path_to_your_virtualenv>"
```

Uncomment the vhosts line:

Include conf/extra/httpd-vhosts.conf

Edit the file C:\Apache24\conf\extra\httpd-vhosts.conf.

Comment out the existing configurations lines by prefixing with a # (good reference for future troubleshooting).

Add the following:

```
<VirtualHost *:8000>
```

ServerName <ip_address or hostname>

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```
ServerAlias <ip_address or hostname>
   ServerAdmin <your_email@there.com>
   DocumentRoot C:\Apache24\htdocs
    <Directory C:\Apache24\htdocs>
    <IfVersion < 2.4>
        Order allow, deny
        Allow from all
    </IfVersion>
    <IfVersion >= 2.4>
        Require all granted
   </IfVersion>
   </Directory>
   WSGIScriptAlias / <path_to_flicket>run.wsgi
    # Make sure to enable so that the API requests will work.
   WSGIPassAuthorization On
   <Directory <path_to_flicket>>
   <IfVersion < 2.4>
        Order allow, deny
        Allow from all
   </IfVersion>
    <IfVersion >= 2.4>
        Require all granted
    </IfVersion>
   </Directory>
</VirtualHost>
```

Edit the file *run.wsgi* so that the path points to your Flicket virtual environment.

Register Apache As A Service

Navigate to the Apache folder and register the service with name Apache HTTP Server:

```
cd "C:\Apache24\bin"
httpd.exe -k install -n "Apache HTTP Server"
```

Start Apache

To start the service use either Windows Serivce Manage and start the service *Apache HTTP Server* or from the command prompt whilst in the folder *c*:*Apache24\bin*:

httpd -k start -n "Apache HTTP Server"

Flicket should now be available in your browser by accessing http:/<ip_address or hostname>:8000

Troubleshooting

To troubleshoot problems starting the apache service or accessing the webpage you should start by reading your Apache installations log files normally located in *c:Apache24logs*.

1.6 Adding Additional Languages

Flicket now supports additional languages through the use of Flask Babel. To add an additional local:

- Edit SUPPORTED_LANGUAGES in config.py and add an additional entry to the dictionary. For example: {'en': 'English', 'fr': 'Francais', 'de': 'German'}
- Whilst in the project root directory you now need to initialise the new language to generate a template file for it.

```
pybabel init -i messages.pot -d application/translations -l de
```

- In the folder *application/translations* there should now be a new folder *de*.
- Edit the file *messages.po* in that folder. For example:

```
msgid "403 Error - Forbidden"
msgstr "403 Error - Verboten"
```

• Compile the translations for use:

```
pybabel compile -d application/translations
```

• If any python or html text strings have been newly tagged for translation run:

```
pybabel extract -F babel.cfg -o messages.pot .
```

• To get the new translations added to the .po files:

pybabel update -i messages.pot -d application/translations

1.7 Flicket - FAQ

1.7.1 What is Flicket?

Flicket is a simple open source ticketing system driven by the python flask web micro framework.

Flicket also uses the following python packages:

alembic, bcrypt, flask-admin, flask-babel, flask-login, flask-migrate, flask-principal, flask-sqlalchemy, flask-script, flask-wtf, jinja2, Markdown, WTForms

See README.rst for full requirements.

Licensing

For licensing see LICENSE.md

1.7.2 Tickets

General

1. How do I create a ticket?

Select 'create ticket' from the Flicket pull down menu.

2. How do I assign a ticket?

Scenario: You have raised a ticket and you know to whom the ticket should be assigned.

Navigate to [flicket home page](/flicket/) and select the ticket you wish to assign. Within the ticket page is a button to *assign* ticket.

3. How do I release a ticket?

Scenario: You have been assigned a ticket but the ticket isn't your responsibility to complete or you are unable to for another reason.

Navigate to [flicket home page](/flicket/) and select the ticket to which you have been assigned. Within the ticket page is a button to *release* the ticket from your ticket list.

4. How do I close a ticket?

Scenario: The ticket has been resolved to your satisfaction and you want to close the ticket.

Navigate to [flicket home page](/flicket/) and select the ticket which you would like to close. Within the ticket page is a button to *replay and close* the ticket.

Only the following persons can close a ticket: * Administrators. * The user which has been assigned the ticket. * The original creator of the ticket.

You may *claim* the ticket so that you may close it.

5. What is markdown?

Markdown is a lightweight markup language with plain text formatting syntax.

The text contents of a ticket can be made easier to read by employing markdown syntax.

Searching

The ticket main page can be filtered to show only results of a specific interest to you. Tickets can be filtered by department, category, user and a text string.

Departments

Note: Only administrators or super users can add / edit or delete departments.

1. How do I add new departments?

Navigate to Departments via the menu bar and use the add departments form.

2. How do I edit departments?

Navigate to [departments](/flicket/departments/) and select the edit link against the department name.

3. How do I delete departments?

Navigate to [departments](/flicket/departments/) and select the remove link against the department name. This is represented with a cross.

Categories

Note: Only administrators or super users can add / edit or delete categories.

1. How do I add categories?

Navigate to [departments](/flicket/departments/) and select the link to add categories against the appropriate department name.

1. How do I edit categories?

Navigate to [departments](/flicket/departments/) and select the link to add categories against the appropriate department name.

1.8 Screenshots

1.8.1 Home Page

| * | | | | |
|---------|---|---|---|--|
| Flicket | | | | |
| | You were logged in successfully. | | | |
| | Open Hi | gh Priority | Tickets | |
| | 00050 He looked inquisitively another sentence. | y at his keyboard and wrote | Replies: 7 Hours: 0.00 | |
| | priority submitted date high by 2020-0 Simon Dominguez | department / 2-21 category Design / ECR | status assigned Open Prince Rivers | |
| | Design | Statistics Manufacturing | IT | |
| | Open Closed In Work Awaiting Information | Open Closed In Work Awaiting Information | Open Closed In Work Awaiting Information | |
| | 26% 24.6% | 25.9% 23.4% | 25.5% 23.5% | |
| | 25% 24.5% | 25.3% 25.4% | 25.4% 25.7% | |

1.8.2 Tickets

All tickets.

| • | Tickets Create simple ticket system | nicket Departr | nents Us | ers Admin Viev | v | | | admin |
|------------------|--|-----------------------|-----------------------|-------------------------------------|---------------|---------------------------|-------------------------------|--------|
| | | | | | | | | |
| | d results as a csv file | 67 . | | | | | | |
| -departm | | egories ▼ earch | status | • | username | reset | contents | |
| << 1 2 | 3 4 5 148 | 149 >> | | | | | | Sort 🝷 |
| 00001 | lt is also a garbage | -collected runtir | ne system. | | | Replies: 14 | Hours: 0.00 | |
| priority high | submitted by Serita Kane | created 2020-02-21 | updated 2016-11-21 | department / cat Manufacturing / | | status In Work | assigned Albert Sanford | |
| 00002 | The syntax {D1,D2, | ,Dn} denotes a | tuple who | se arguments are | e D1, D2, Dn. | Replies: 11 | Hours: 0.00 | |
| priority low | submitted by Emmy Koch | created 2020-02-21 | updated 2016-11-21 | department / cat IT / Intranet | egory | status Awaiting Inforn | assigned nation Lane Banks | |
| 00003 | Erlang is known for | its designs that | t are well s | uited for systems | 5. | Replies: 2 | Hours: 0.00 | |
| priority high | submitted by Delmar Cochran | created 2020-02-21 | updated 2016-11-21 | department / cat Commercial / Ap | | status In Work | assigned Gwyneth Frye | |
| 00004 | Atoms are used wit | thin a program t | es. | Replies: 7 | Hours: 0.00 | | | |
| priority low | submitted by Lonny Avery | created 2020-02-21 | updated 2016-11-21 | department / cat IT / Intranet | egory | status In Work | assigned Janeth Lawson | |
| 00005 | lt is also a garbage | | | | | Replies: 12 | Hours: 0.00 | |

1.8.3 View Ticket

| 00001 | lt is also a d | aarbaae-colle | ected runtime | system. | | clair |
|---------------|--|---|---------------------|--|--|---|
| Department | Category | Status | Priority | Assigned | Total Hours | releas |
| Manufacturing | Equipment | In Work | high | Albert Sanford | 0.00 | assig |
| Subscribed: | | | | User Name | sut | oscribe user |
| << 1 >> | | | | | | |
| Serita Kane | 21-02-2020 16:39 | 9 | | | | 2 |
| | with the built-in f | unction open_port. | | ith type inference and lazy set of Erlang supports eage | | |
| | | unction open_port. | | | | assignment, |
| Edris Snyder | with the built-in for and dynamic typi | unction open_port. | | | | |
| Edris Snyder | with the built-in fr and dynamic typi Hours: 0.00 Reply #1 21-02- She spent her ear and wrote another | unction open_port. ing. 2020 16:39 rliest years reading er sentence. Tuples | The sequential sub- | | er evaluation, single d inquisitively at his ta types. He looked | assignment, quote 2 = keyboard |
| Edris Snyder | with the built-in fr and dynamic typi Hours: 0.00 Reply #1 21-02- She spent her ear and wrote another | unction open_port. ing. 2020 16:39 rliest years reading er sentence. Tuples | The sequential sub- | et of Erlang supports eage ad writing poetry. He looke fixed number of Erlang da | er evaluation, single d inquisitively at his ta types. He looked | assignment, quote 2 = keyboard |

1.8.4 Create Ticket

| 0 | Flicket - Create | Ticket - Mozilla F | irefox | _ | 000 |
|-------------------------------------|--|--------------------|----------------------------------|---------------|--------------------|
| Flicket - Create Ticket 🥠 🗙 ≶ 🤅 | Samanage Bot says 🚿 🗙 | + | | | |
| ← → ♂ ŵ | https://flicket. evereux.uk /tick | et_create/ | | ⊠ ☆ |) II\ ⊡ ≡ |
| A My Tickets Tickets Crea | ate Ticket Departments | Users FAQ | Admin View | | admin - |
| Flicket a simple ticket system | | | | | |
| | Tislast | | | | |
| Flicket - Create | e licket | | | | |
| Ticket contents supports markdown s | syntax. Please refer to md help. | | | | |
| Ticket Title | I Can't Log In | | | | |
| Content | # Please help. | | | | |
| | I can't log in. Computer say | S | | | |
| | invalid username or pass | word | | | |
| | | | | | li. |
| | | | | | |
| | Please hel | Э. | | | |
| | I can't log in. Computer say | S | | | |
| | invalid username or p | bassword | | | |
| | MarkDown reference | | | | |
| | markbown relevence | | | Show / I | Hide Markdown |
| Priority Level | high | • | Category | IT - Intranet | • |
| Upload Documents | Browse No files select | ed. | | | Submit |
| | | | | | |
| Flicket 0.1 | .8 © 2018 Paul Bourne Source | e code available a | at: Github This site uses: Glv | phicons. | |
| | | | | | |
| | | | | | |
| | | | | | |

1.8.5 Users

| | | Users - Mozilla | Firefox | | _ | | 00 |
|-------------------|---------------------|--------------------------------|------------|-------------|-----------|-------|--------------------|
| sers | % 🗙 🔰 Samanage B | ot says 💉 🗙 🕂 | | | | | |
| -)→ C û | i 🔒 https://flic | ket. evereux.uk /users/ | | | •• | • ⊠ ☆ | © III\ ⊡ |
| My Tickets Tic | ckets Create Ticket | Departments Users | FAQ | Admin View | | | admin - |
| Flicket a simple | e ticket system | | | | | | |
| Users | | | | | | | |
| Name | | | | search user | rese | et | |
| 1 2 | | | | | | | |
| Username | Name | Email | | | Job Title | Posts | Assigned |
| | admin | evereux@gmail.com | | | admin | 244 | 0 |
| Afton_Solomon | Afton Solomon | evereux+Afton_Solor | non@amail | .com | None | 249 | 0 |
| Almeta Pierce | Almeta Pierce | evereux+Almeta_Pie | | | None | 231 | 0 |
| Alonzo_Reid | Alonzo Reid | evereux+Alonzo_Rei | | | None | 235 | 0 |
| Ambrose_Gilmore | Ambrose Gilmore | evereux+Ambrose_G | ilmore@gn | nail.com | None | 205 | 0 |
| Amina_Hansen | Amina Hansen | evereux+Amina_Han | sen@gmail | .com | None | 207 | 0 |
| Amira_Cain | Amira Cain | evereux+Amira_Cain | @gmail.cor | n | None | 228 | 0 |
| Angle_Hess | Angle Hess | evereux+Angle_Hess | @gmail.co | m | None | 210 | 0 |
| Arletha_Spencer | Arletha Spencer | evereux+Arletha_Spe | encer@gma | ail.com | None | 202 | 0 |
| Brian_Boyer | Brian Boyer | evereux+Brian_Boye | r@gmail.co | m | None | 242 | 0 |
| Carli_Hunt | Carli Hunt | evereux+Carli_Hunt@ | @gmail.com | I | None | 204 | 0 |
| Cedrick_Contreras | Cedrick Contreras | evereux+Cedrick_Co | ntreras@gr | nail.com | None | 191 | 0 |
| Chance_Austin | Chance Austin | evereux+Chance_Au | stin@gmail | .com | None | 227 | 0 |
| Chuck_Blair | Chuck Blair | evereux+Chuck_Blai | @gmail.co | m | None | 228 | 0 |

1.8.6 Admin Panel

| A | My Tickets | Tickets | Create Ticket | Departments | Users | FAQ | Admin View | admin - | | |
|---|----------------|-------------------------------|------------------|-------------|---------|--------|------------|--------------------|--|--|
| | Fli | icket - | | | | | | | | |
| | Administration | | | | | | | | | |
| | | Admin Home | e Flicket Config | g Users A | dd User | Groups | ; | | | |
| | | dmin inistration ho | me page. | | | | | | | |
| Flicket 0.1.8 © 2018 Paul Bourne Source code available at: Github This site uses: Glyphicons. | | | | | | | | | | |

1.8.7 Admin Panel - Add User

| ♠ | My Tickets | Tickets | Create Ticket | Departments | Users | FAQ | Admin View | admin - |
|---|------------|------------|---------------------|-------------|-----------|--------|---------------|--------------------|
| | Fli | icket . | simple ticket syste | m | | | | |
| | A | dmini | stratior | า | | | | |
| | | Admin Home | Flicket Confi | g Users | Add User | Groups | | |
| | | | | | | Add | User | |
| | | | | | Username | | | |
| | | | | | Name | name | | |
| | | | | | Email | email | | |
| | | | | | Job Title | admin | | |
| | | | | | Locale | Englis | × | |
| | | | | | Password | ••••• | • • • • • • • | |
| | | | | | Confirm | repeat | assword | |
| | | | | | | ad | l_user | |

Flicket 0.1.8 © 2018 Paul Bourne | Source code available at: Github | This site uses: Glyphicons.

1.8.8 Admin Panel - Configuration

| A | My Tickets | Tickets | Create Ticket | Departments | Users | FAQ | Admin View | admin - | | | |
|---|--------------|-------------|----------------|-------------|---------------|------------|-------------------------------------|--------------------|--|--|--|
| | Fli | cket . | | | | | | | | | |
| | Ac | mini | stration | - Con | figura | atio | ı | | | | |
| | Ĥ | Admin Home | Flicket Config | j Users A | dd User | Groups | | | | | |
| | Fiel | d | | Valu | e | | | | | | |
| | mail | _server | | | | | | | | | |
| | mail | | | | | | | | | | |
| | mail | | | | | | | | | | |
| | mail_use_ssl | | | | | | | | | | |
| | mail | _debug | | | | | | | | | |
| | mail | _username |) | adm | admin | | | | | | |
| | mail | _password | | ••• | ••••• | | | | | | |
| | mail | _default_s | ender | | | | | | | | |
| | mail | _max_emai | ils | | | | | | | | |
| | mail | _suppress | send | | | | | | | | |
| | ☐ mail | _ascii_atta | chments | | | | | | | | |
| | pos | ts_per_pag | le | 50 | | | | | | | |
| | allo | wed_exten | sions | txt, | odf, png, jpg | g, jpeg, T | his must be a comma delimited list. | | | | |
| | 41-1- | -* | £-1-1 | | | 1 | | | | | |

1.9 API

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