Documentation

Web-Application

Installation

The Web-Application is based on the Django Web framework based on Python. In order to run and test the application, it is recommended to use the latest version of Python 3. But Python 2.7 can also be used. For the development of the Web-Application, Python 2.7.6 has been used.

The easiest way to install Django is to use the pip installer. To install the latest Django release, use:

pip install Django==1.8.3

The graphics has been plotted with Matplotlib (http://matplotlib.org), Numpy (http://matplotlib.org)), Numpy (http://matplotlib.org)))

In order to install Matplotlib, clone the source using

git clone git@github.com:matplotlib/matplotlib.git

and build and install it with

cd matplotlib python setup.py install

For pytrie use:

sudo easy_install PyTrie

For each operating system, there are different ways to install Numpy. Therefor, it is recommended to visit:

http://docs.scipy.org/doc/numpy/user/install.html

(Linux should already provide packages for Numpy)

Run the Application

In order to run the application, open the terminal and change to the directory of the web-application. For example:

cd .../desktop/repository/Webinterface/

Running the commend Is -I, should give you the following output:

Webinterface database db.sqlite3 manage.py media

To start the application, run the command:

python manage.py runserver

Afterwards, the terminal should display the following:

Tonis-MBP:Webinterface tonis python manage.py runserver Performing system checks...

System check identified no issues (0 silenced).

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Django version 1.8.2, using settings 'Webinterface.settings'

Starting development server at http://127.0.0.1:8000/

Ouit the server with CONTROL-C.

Finally, open a browser and type:

http://127.0.0.1:8000/

Running the application for the first time, it might be necessary to type in the following command: python manage.py makemigrations python manage.py migrate

Additionally, running the application for the first time, the application itself might not display anything. The reason is that there might no data (genome, technology platforms) uploaded yet. In order to upload data, an adm site has been introduced (http://127.0.0.1:8000/admin). Genomes and technology platforms can be uploaded on this page.

A temporary admin account has been used with the following data:

- username: adminpassword: 1

Running the application with the address http://127.0.0.1:8000/ again, should now display the uploaded genomes and technology platforms