ShapefileImport

Description

`ShapefileImport` takes the most recent version of the NWB and gives you plain CSV output with all the fields needed to create a query based on `road + milemarker` or `latitude + longitude`.

The GPS coordinates present in the NWB are `EPSG:28992 (Amersfoort / RD New)` and will be translated to the `EPSG:4326 WGS84` LatLon with WGS84 datum used by GPS units and Google Earth.

How to run this application

1. The script has to be run with a Python 2 interpreter. Such an interpreter is usually installed by default as the `python` command on Apple and Linux systems. If you do not have a Python 2 interpreter, you can get one from the Python website (choose the button labeled "Download Python 2.7.X").
2. Install PIP (The PyPA recommended tool for installing and managing Python packages.)
3. It is recommended to install virtualenv by running `pip install virtualenv` and optionally virtualenvwrapper (A set of extensions to Ian Bicking's virtualenv tool.) to make working with virtualenvs easier. If you do, create a virtualenv and activate it.
4. Run `pip install -r requirements.txt`
5. Download the most recent version of the NWB from here and extract the contents of the .zip file to a folder named `input` in your `project root`. After this step, the `input` folder in your `project root` should contain 2 directories (`Hectopunten` and `Wegvakken`) and their content.
6. Run `python app.py` to start the processing.
7. After processing, the `output` folder in the `project root` will contain 3 CSV files (`Hectopunten.csv` , `merged.csv` and `Wegvakken.csv`).
8. `merged.csv` will be the file one will generally use to import into an Relational Database or for other kinds of querying.