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Automatic Music Transcription Tool

User Manual

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Installation Guide

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1. Clone/Download gitlab repo.

```
git clone git@gitlab.computing.dcu.ie:ferryp2/2019-ca400-ferryp2.git
```

```
cd src
```

2. Setting up the environment

Create a virtual environment that runs Python 3.7.0.

```
virtualenv -p python3 envname
```

Create environmental variable for app location and for the data base url if a database url is not added a local SQLite file will be used instead

```
export FLASK_APP=website.py
export DATABASE_URL=mysql://user:password@100.100.100.100/hello_world
```

Activate the virtual environment.

```
source envname/bin/activate
```

3. Install required modules

Recursively install the required modules.

```
pip install -r requirements.txt
```

Install ffmpeg

```
sudo apt install ffmpeg
```

4. Setup database

Run these commands to create your database.

```
python manage.py db init
python manage.py db migrate
python manage.py db upgrade
```

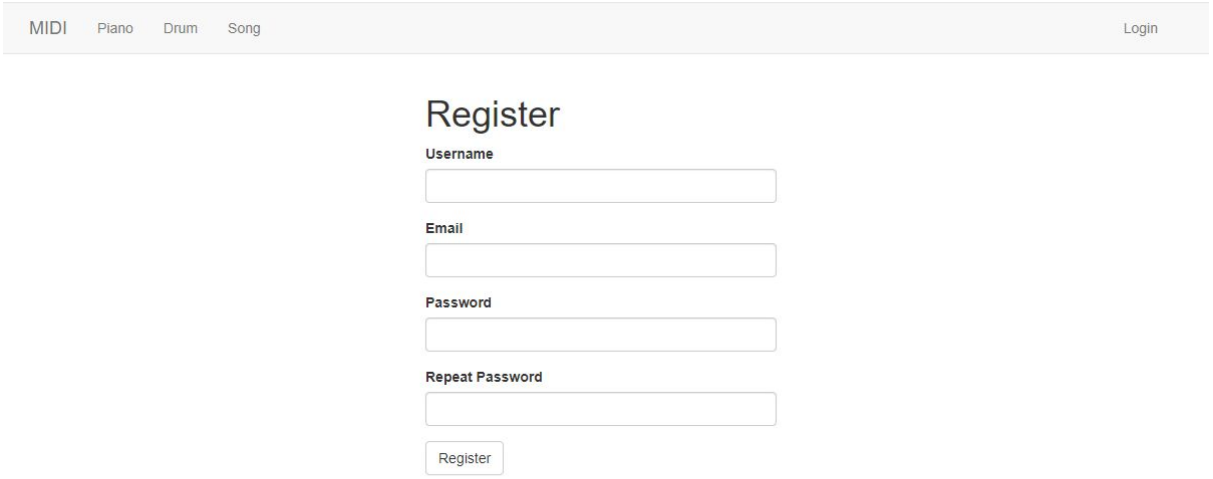
5. Run Flask app

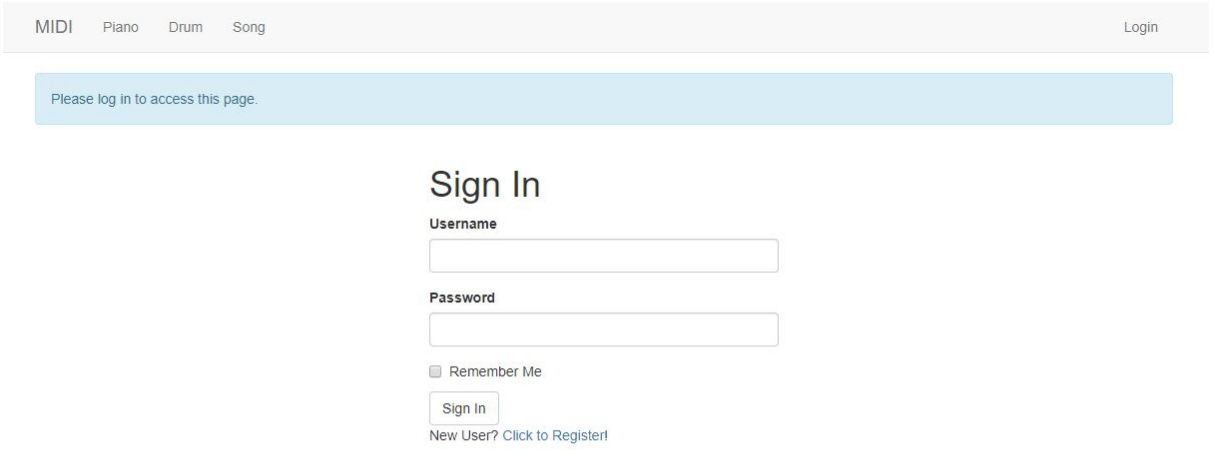
To run the application, execute the following command in the site directory

```
flask run
```

User guide

Click login in the top right to login or register

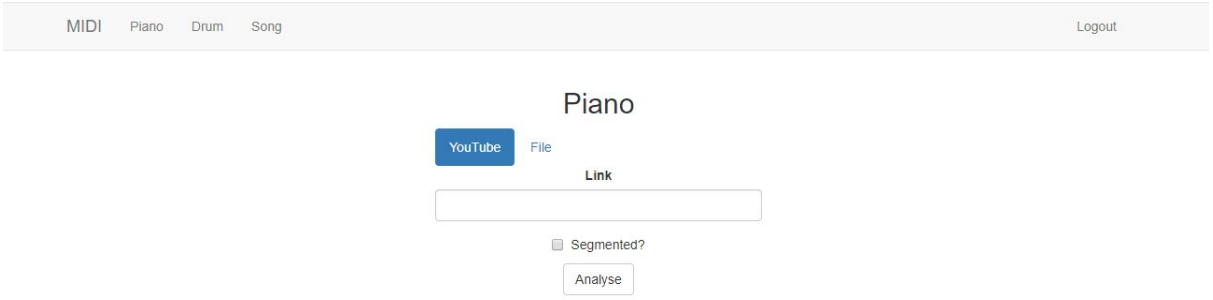


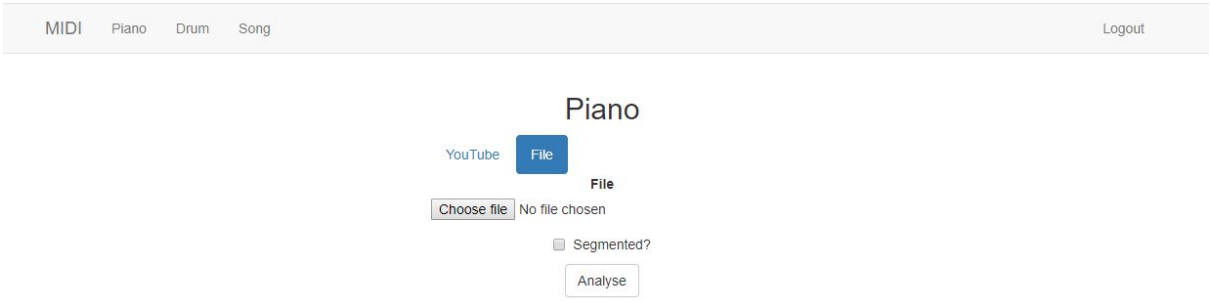


Using tools

Click the tool you would like to use in the top bar
Piano is mainly for converting piano pieces but may work well on other songs too
Drum is converting drum beats
Song returns a version of a song split into harmonic and percussive parts as audio.

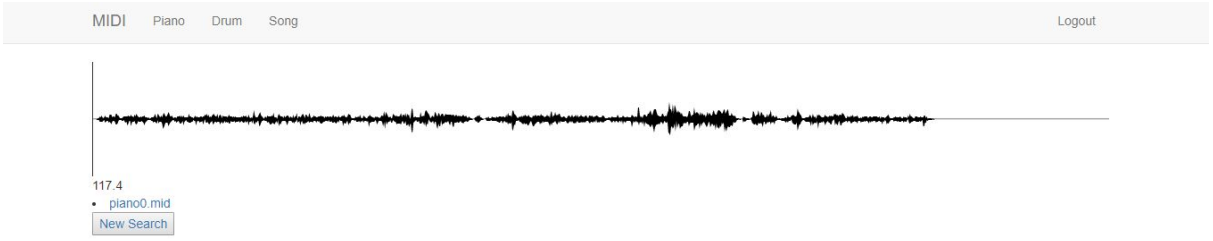
Users can input a youtube link or click the pill to upload a file





The segmented check box is for choosing whether or not you would like your output to be split into sections based on the form of the song.

This is the results page, it shows an audio waveform of the song along with the bpm and the link to download the MIDI file.



117.4

- piano0.mid

New Search