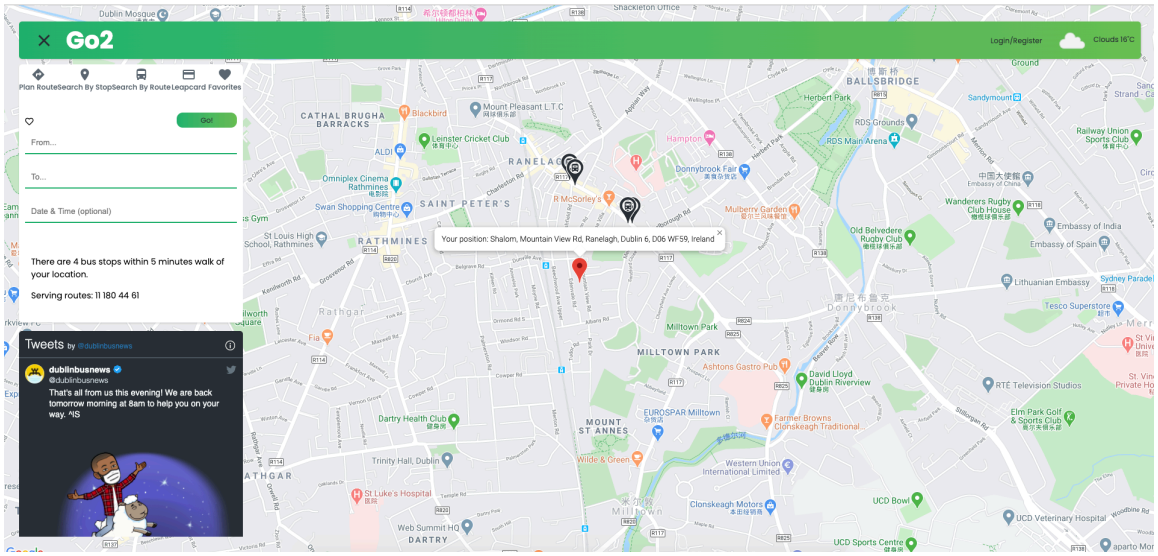
Go2

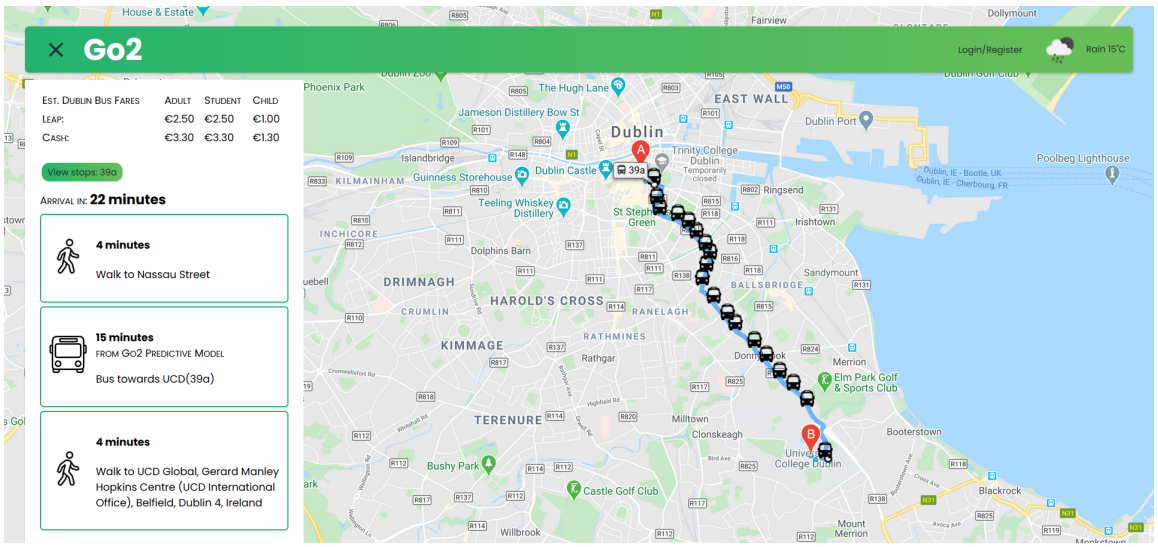
A Dublin Transit Travel Planning Application

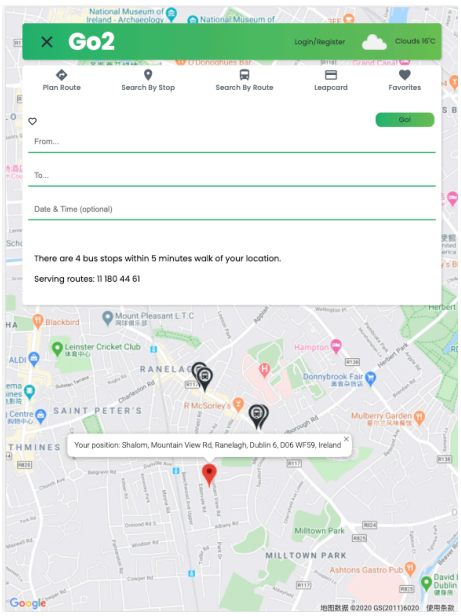
README

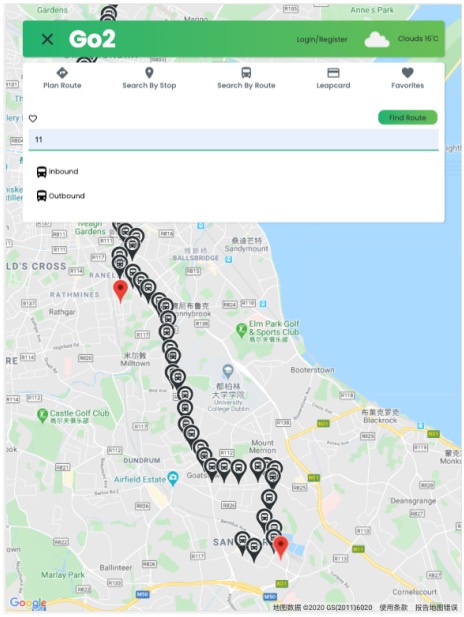
Deployed at: http://34.248.8.161/

Screenshots:









We provide users with two ways to use the app, so whether you are a registered user or not, you can enjoy the app.

For the user, you can:

1. Select the location and departure time, the app will give you a detailed route planning and tell you the cost this journey.
2. Select the stop, the map will show the location of the stop.
3. Select the route, the map will show the inbound and outbound for the route
4. Check the information of the leapard
5. Add your favorite place, stop and route into favorite and delete them.

To run this application on a local development server:

1. Clone the source code repository.

    $ https://github.com/Evan-McDonagh/dublin-bus-rtpi.git

2. Navigate to the dublinbus repository and install the required dependencies in a virtual environment using Anaconda 3 or Miniconda 3:

    $ cd dublinbus
    $ conda env create -f environments/environment.yml

3. Set up a local MySQL database named ‘user’

4. To run the app server:

```
$ python manage.py makemigrations
$ python manage.py migrate
$ python manage.py runserver
```

5. To configure the application for local development use:

1. Create a config.py file under /dublinbus/settings.py, adjusting database settings as necessary

```
database_config = {
                'ENGINE': 'django.db.backends.mysql',
                 'NAME': 'user',
                 'USER': 'root',
                 'PASSWORD': ‘your own password',
                 'HOST': 'localhost',
                'PORT': '3306',
        }
secret_key = ’n-pa+=8&df=4j*%-zp%+_w+xgq=y7%me6qfttif#ei@lq^=e_%'
```

2. Uncomment the code under the /dublinbus/_init.py to allow use of pymysql if necessary:

```
import pymysql
pymysql.version_info = (1, 3, 13, "final", 0)
pymysql.install_as_MySQLdb()
```

3. Modify the code under the _init.py /dublinbus/settings.py to allow use of your local host:

```
ALLOWED_HOSTS = [
        '34.248.8.161',
        'www.gotwo.nk',
        'gotwo.nk',
        '*',
]
```

Data Analytics

The IPython notebooks used in developing the predictive model as well as supplementary files relating to the model’s development can be found in the /ml-notebooks/ directory.

The operational models were copied to the /dublinbus/app01/models_SVR/ directory for integration with the application, and prediction extraction functions were altered from their initial state for working with the final app.